



## CrystalPM 21st Century Cures Act B.10 All Patient Data Export Documentation

## Overview

This documentation serves as a detailed guide to our Electronic Health Record (EHR) system's 21st Century Cures Act B.10 All Patient Data Export functionality. This feature is meticulously designed to facilitate the secure and efficient export of all patient data strictly in CSV file formats, ensuring the optimal utility and interoperability of health information. It allows users to acquire comprehensive patient data in a structured and standardized manner, adhering to the mandates of the 21st Century Cures Act. Following sections will elaborate on the intricacies of the structure and format of the outputted patient data, providing users with the requisite information to navigate and leverage the export feature effectively.

## Patient - "patients" CSV Export

The patients table is used to store information about individual patients within an EHR software system. It includes columns for various patient details such as name, address, contact information, date of birth, social security number, and insurance information. The table also contains fields for financial information such as balance and insurance balance, as well as timestamps for when the record was last updated. The table may also include fields related to patient demographics and communication preferences.

| Column Name         | Data Type | Description  | Extraction Method |
|---------------------|-----------|--|-------------------|
| acctid              | int       | The acctid column is the unique patient ID in the patients table. It serves as a primary key for identifying individual patients in the database.            | CSV               |
| family_id           | int       | The 'family_id' column is an unsigned integer that represents the unique ID of the family to which the patient belongs.                                      | CSV               |
| patient_last_name   | varchar   | The patient_last_name column contains the last name of the patient.  | CSV               |
| patient_first_name  | varchar   | The patient_first_name column is a varchar(30) column that stores the first name of the patient. It is a required field and can contain up to 30 characters. | CSV               |
| patient_middle_name | char      | The patient_middle_name column contains a single character representing the middle initial of the patient.   | CSV               |
| patient_address1    | varchar   | The patient_address1 column contains the first line of the patient's address.  | CSV               |
| patient_address2    | varchar   | The patient_address2 column in the patients table contains the second line of the patient's address.   | CSV               |
| patient_city        | varchar   | The patient_city column contains the city where the patient resides.   | CSV               |

|                    |                         |  |                              |
|--------------------|-------------------------|--|------------------------------|
| patient_state      | char                    | The patient_state column stores the two-character state code indicating the state where the patient resides.                                 | CSV                          |
| patient_zip        | varchar                 | The patient_zip column is a non-null, varchar(10) column that stores the zip code of the patient's address.                                  | CSV                          |
| patient_sex        | char                    | The patient_sex column stores the gender of the patient.   | CSV                          |
| patient_suffix     | char                    | The patient_suffix column is a three-character string that represents a suffix or extension added to the patient's name (e.g., Jr, Sr, III). | CSV                          |
| patient_title      | varchar                 | The patient_title column stores the title or honorific of the patient, such as Mr., Mrs., Dr., etc.  | CSV                          |
| patient_home_phone | varchar                 | The patient_home_phone column stores the home phone number of the patient.   | CSV                          |
| patient_work_phone | varchar                 | The patient_work_phone column is a varchar(20) column that stores the work phone number of the patient.                                      | CSV                          |
| patient_nickname   | varchar                 | The patient_nickname column contains the nickname or preferred name of the patient.  | CSV                          |
| ssn                | varchar                 | The 'ssn' column stores the social security number of the patient.   | CSV                          |
| birthday           | date<br>default<br>NULL | The 'birthday' column in the 'patients' table stores the date of birth of a patient.   | CSV                          |
| balance            | bigint                  | The balance column represents the outstanding financial amount owed by a patient.  | CSV                          |
| xml                | text                    | The xml column in the patients table stores XML data.  | CSV + XML<br>Deserialization |
| day                | datetime<br>default     | The 'day' column in the 'patients' table represents the date and time when the   | CSV                          |

|             |  |   |     |
|-------------|--|---|-----|
|             | '2004-05-03 17:39:20'                        | patient's record was created or last modified.  |     |
| ins_balance | bigint                                       | The ins_balance column represents the outstanding balance of the patient's insurance claims.  | CSV |
| last_update | datetime<br>default<br>'2004-05-03 17:39:20' | The last_update column stores the date and time of the most recent update made to a patient's information in the database.  | CSV |
| active      | tinyint                                      | The active column indicates whether a patient is currently active or not. It is a boolean value, where 1 represents an active patient and 0 represents an inactive patient. | CSV |
| recall_type | tinyint                                      | The recall_type column specifies the type of recall for a patient.  | CSV |
| eppointid   | int  | The eppointid column in the patients table is the foreign key that links the patient to their Electronic Practice Point of Care (EPPC) record.                              | CSV |
| ws_updated  | datetime<br>default<br>NULL                  | The ws_updated column stores the date and time when the patient's record was last updated through the web services interface.   | CSV |
| last_exam   | date<br>default<br>NULL                      | The last_exam column stores the date of the most recent examination/visit for the patient.  | CSV |
| last_paid   | date<br>default<br>NULL                      | The last_paid column stores the date when the patient's last payment was made.  | CSV |
| last_frame  | date<br>default<br>NULL                      | The last_frame column stores the date when the patient's last eyeglass frame selection was recorded.  | CSV |
| last_cl     | date   | The 'last_cl' column represents the date  | CSV |

|                            |                             |   |     |
|----------------------------|-----------------------------|---|-----|
|                            | default<br>NULL             | of the last contact lens appointment for the patient.   |     |
| locid                      | int                         | The locid column is the unique identifier for the location of the patient.  | CSV |
| is_test_patient            | tinyint                     | The is_test_patient column indicates whether or not the patient is a test patient.  | CSV |
| patient_name_type          | char                        | The patient_name_type column stores a single character indicating the type of the patient's name.   | CSV |
| patient_countyparish_code  | varchar                     | The patient_countyparish_code column stores the code for the county or parish where the patient resides.  | CSV |
| last_update_date_hl7       | datetime<br>default<br>NULL | The 'last_update_date_hl7' column stores the date and time of the last update made to the patient's information through an HL7 message.                             | CSV |
| last_update_type_hl7       | char                        | The 'last_update_type_hl7' column indicates the type of update made to the patient's record in the HL7 format.  | CSV |
| last_update_mergedacct_hl7 | int                         | The last_update_mergedacct_hl7 column is a field that stores the unique ID of the merged account in the HL7 system that was last used to update the patient record. | CSV |
| deathIndicator             | tinyint                     | The deathIndicator column indicates whether or not the patient is deceased.   | CSV |
| deathDateTime              | datetime<br>default<br>NULL | The deathDateTime column stores the date and time when the patient's death was recorded.  | CSV |
| hl7OptinIndicator          | tinyint                     | The hl7OptinIndicator column indicates whether the patient has opted in for HL7 data exchange.  | CSV |
| hl7OptinDateTime           | datetime<br>default         | The hl7OptinDateTime column stores the date and time when the patient   | CSV |

|                                    |                             |  |     |
|------------------------------------|-----------------------------|--|-----|
|                                    | NULL                        | opted in for HL7 data sharing.   |     |
| patient_birth_time                 | time<br>default<br>NULL     | The patient_birth_time column stores the time of day of the patient's birth.   | CSV |
| last_modified_online_forms_history | datetime<br>default<br>NULL | The last_modified_online_forms_history column stores the date and time when the online forms for the patient were last modified.   | CSV |
| update_ccd_hl7                     | tinyint                     | The `update_ccd_hl7` column indicates whether the patient's CCD (Continuity of Care Document) has been updated.  | CSV |
| authusers                          | text                        | The `authusers` column is a text field that stores the authorized users for the patient. It contains the usernames or IDs of individuals who have permission to access and view the patient's information. | CSV |
| created_datetime                   | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the patient record was created in the database.  | CSV |
| insert_guid                        | varchar                     | The insert_guid column is a unique identifier generated for each record inserted into the patients table.  | CSV |
| mi7_hl7_patient_id                 | varchar                     | The mi7_hl7_patient_id column is a unique identifier for the patient in the HL7 messaging system.  | CSV |

## patients table - xml column Custom XML Extraction

| Name                 | Description   | Field | Data Type | Serialized Type | Serialized Type |
|----------------------|---|-------|-----------|-----------------|-----------------|
| BillingLastName      | The BillingLastName custom XML field in the patients table is used to store the last name of the patient's billing information.           | a     | String    |                 |                 |
| BillingFirstName     | The BillingFirstName custom XML field is used to store the first name of the patient for billing purposes in the EHR software.            | b     | String    |                 |                 |
| BillingMiddleInitial | The BillingMiddleInitial custom XML field in the patients table is used to store the middle initial of the patient's billing information. | c     | String    |                 |                 |
| BillingAddress1      | The BillingAddress1 custom XML field in the patients table is used to store the billing address of the patient.                           | d     | String    |                 |                 |
| BillingAddress2      | The BillingAddress2 custom XML field in the patients table is used to store the second line of the billing address for a patient.         | e     | String    |                 |                 |
| BillingCity          | The BillingCity custom XML field stores the city of the patient's billing address. It is used for generating invoices or billing          | f     | String    |                 |                 |



|                  |  |    |        |  |  |
|------------------|--|----|--------|--|--|
|                  | statements for the patient.  |    |        |  |  |
| BillingState     | The BillingState custom XML field is used to store the billing state of the patient in the EHR software.   | h  | String |  |  |
| BillingZip       | The BillingZip custom XML field in the patients table is used to store the zip code for the patient's billing address.   | j  | String |  |  |
| BillingSuffix    | The BillingSuffix custom XML field is used to store the suffix (such as Jr., Sr., III) associated with the billing information of a patient in the EHR software. | j  | String |  |  |
| BillingTitle     | The BillingTitle custom XML field in the patients table is used to store the title of the patient's billing contact.   | k  | String |  |  |
| BillingHomePhone | The BillingHomePhone custom XML field is used to store the patient's billing home phone number in the EHR software.  | n  | String |  |  |
| BillingWorkPhone | The BillingWorkPhone custom XML field in the patients table is used to store the billing work phone number of a patient.   | o  | String |  |  |
| BillingSex       | The BillingSex custom XML field is used to store the gender or sex of a patient  | SS | String |  |  |

|                  |  |    |         |  |  |
|------------------|--|----|---------|--|--|
|                  | for billing purposes in an EHR software.   |    |         |  |  |
| BillingBirthday  | The BillingBirthday custom XML field in the patients table is used to store the billing information related to the patient's date of birth.  | TT | String  |  |  |
| MaritalStatus    | The MaritalStatus custom XML field in the patients table is a field used to store the marital status of the patient, such as "single", "married", "divorced", etc.   | p  | String  |  |  |
| Employer         | The "Employer" custom XML field in the patients table is used to store the employer information of the patient. It would typically include details such as the name of the employer, which can be used for billing or demographic purposes in an EHR software. | q  | String  |  |  |
| Occupation       | The Occupation custom XML field in the patients table is used to store the occupation of a patient.  | r  | String  |  |  |
| ReferralLastName | The ReferralLastName custom XML field in the patients table is used to store the last name of the referring provider or person who referred the patient to the EHR software.   | s  | String  |  |  |
| PrimaryDoctor    | The PrimaryDoctor custom   | u  | Integer |  |  |

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|---------------------|--|---|--------|--|--|
|                     | XML field is used to store the primary doctor or physician assigned to a patient in the EHR software.  |   | 32-Bit |  |  |
| SendStatements      | The SendStatements custom XML field is used to indicate whether the patient wants to receive paper statements for billing purposes.  | A | Bool   |  |  |
| ApplyFinanceCharges | The ApplyFinanceCharges custom XML field is used to store a boolean value indicating whether or not finance charges should be applied to the patient's account.  | B | Bool   |  |  |
| Courtesy            | The Courtesy custom XML field is used to store information about the patient's preferred manner of communication or any special requests or considerations for how they would like to be treated during their interactions with the healthcare provider. | C | String |  |  |
| Referrals           | The Referrals custom XML field is used to store information related to patient referrals. It may include details such as the name of the referring provider, the date of referral, and any additional notes or details regarding the referral.           | D | String |  |  |

|                      |   |   |        |  |  |
|----------------------|---|---|--------|--|--|
| ProfessionalReferral | The ProfessionalReferral custom XML field is used to store information related to the professional referral made by the patient. It may contain details such as the name of the referring professional or healthcare provider, their contact information, and any additional notes or comments related to the referral. | I | String |  |  |
| OtherPhoneNumber     | The OtherPhoneNumber custom XML field in the patients table is used to store an additional phone number for the patient that is not their home or work phone number.  | J | String |  |  |
| AddressSame          | The AddressSame custom XML field in the patients table is used to indicate whether the billing address is the same as the patient's primary address.  | K | Bool   |  |  |
| AlertComments        | The AlertComments custom XML field in the patients table is used to store any additional comments or alerts related to the patient's health or medical treatment.   | N | String |  |  |
| SignatureOnFile      | The SignatureOnFile custom XML field is used to indicate whether the patient has signed a consent form or any other document that authorizes  | W | Bool   |  |  |

|                    |   |    |        |  |  |
|--------------------|---|----|--------|--|--|
|                    | the healthcare provider to use their personal information for treatment, payment, and healthcare operations purposes.   |    |        |  |  |
| EmailAddress       | The EmailAddress custom XML field in the patients table is used to store the email address of the patient.  | AA | String |  |  |
| SendNewsletter     | The SendNewsletter custom XML field is used to indicate whether or not the patient has opted in to receive newsletters or promotional materials from the healthcare provider. | BB | Bool   |  |  |
| InsuranceNotes     | The InsuranceNotes custom XML field is used to store any notes or additional information related to the patient's insurance coverage.   | CC | String |  |  |
| Employed           | The "Employed" custom XML field in the patients table is used to indicate whether or not the patient is currently employed.   | DD | Bool   |  |  |
| FullTimeEmployment | The FullTimeEmployment custom XML field in the patients table is used to indicate whether the patient is employed full-time or not.   | EE | Bool   |  |  |
| PartTimeEmployment | The PartTimeEmployment custom XML field in the patients table is used to store information about  | FF | Bool   |  |  |

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|----------------|--|----|----------|--|--|
|                | whether the patient is employed part-time.   |    |          |  |  |
| Parents        | The Parents custom XML field in the patients table is used to store information about the patient's parents, such as their names or contact information.   | GG | String   |  |  |
| HippaSignature | The HippaSignature custom XML field is used to store the date and time when the patient signed a HIPAA acknowledgment or consent form.   | HH | DateTime |  |  |
| CheckCardType  | The CheckCardType custom XML field is used to indicate whether the patient has provided their credit or debit card information for payment purposes.   | II | Bool     |  |  |
| Misc           | The Misc custom XML field is used to store miscellaneous information related to the patient in the EHR software. It can contain any additional details or notes that may not fit into other specific fields or categories. | JJ | String   |  |  |
| Notes          | The Notes custom XML field in the patients table is used to store additional notes or comments about the patient's medical history, condition, or any other relevant information not covered by other                      | KK | String   |  |  |

|                        |  |             |            |                |                          |
|------------------------|--|-------------|------------|----------------|--------------------------|
|                        | fields.  |             |            |                |                          |
| PreferredContactMethod | The PreferredContactMethod custom XML field is used to store the preferred method of contact for the patient, such as phone, email, or mail.   | LL          | String     |                |                          |
| CellPhoneNumber        | The CellPhoneNumber custom XML field in the patients table is used to store the cell phone number of the patient for contact and communication purposes.   | MM          | String     |                |                          |
| DriversLicenseNumber   | The DriversLicenseNumber custom XML field is used to store the driver's license number of a patient.   | NN          | String     |                |                          |
| Identification         | The Identification custom XML field in the patients table is used to store information related to the patient's identification, such as their social security number, driver's license number, or any other form of identification that may be required for healthcare purposes. | ident       | Serialized | XML and Binary | List<Identification>     |
| ContactInformation     | The ContactInformation custom XML field is used to store additional contact information for the patient, such as alternative phone numbers or email addresses.   | contactInfo | Serialized | XML and Binary | List<ContactInformation> |
| Pronoun                | The Pronoun custom XML   | VV          | String     |                |                          |

|                            |   |                            |        |  |  |
|----------------------------|---|----------------------------|--------|--|--|
|                            | field in the patients table is used to store the pronouns (e.g., he, she, they) associated with a patient's gender identity or preferred gender pronouns. |                            |        |  |  |
| OtherGivenName             | The OtherGivenName custom XML field is used to store an additional given name or middle name of the patient.  | givenNamesOther            | String |  |  |
| AddressType                | The AddressType custom XML field is used to store the type or category of an address associated with a patient, such as "Home", "Work", or "Mailing".     | addressType                | String |  |  |
| Country                    | The Country custom XML field in the patients table is used to store the country name or code of the patient's address.                                    | country                    | String |  |  |
| PhoneNumberType            | The PhoneNumberType custom XML field is used to specify the type of phone number associated with a patient, such as "home", "work", or "cell".            | phoneNumberType            | String |  |  |
| PrimaryCommunicationDevice | The PrimaryCommunicationDevice custom XML field is used to store information about the patient's primary method of communication, such as phone or email. | primaryCommunicationDevice | String |  |  |
| PublicityIndicator         | The PublicityIndicator custom XML field is used   | pubEnabled                 | Bool   |  |  |



|                         |   |                |          |  |  |
|-------------------------|---|----------------|----------|--|--|
|                         | to indicate whether or not the patient has given consent for their personal information to be shared or used for publicity purposes.  |                |          |  |  |
| PublicityType           | The PublicityType custom XML field is used to specify the type of publicity or marketing preferences for the patient, such as whether they consent to their information being used in promotional materials or public communication.                  | pubType        | String   |  |  |
| PublicityEffectiveDate  | The PublicityEffectiveDate custom XML field is used to store the effective date for the patient's publicity status in the EHR software.   | pubEffectDate  | DateTime |  |  |
| ProtectionType          | ProtectionType is a custom XML field used to indicate the type of protection or security measures applied to the patient's personal health information (PHI) or medical records.  | protType       | String   |  |  |
| ProtectionEffectiveDate | The ProtectionEffectiveDate custom XML field is used to store the effective date of a patient's protection status, such as the start date of an insurance policy or the date when a patient opted in for protection under the 21st Century Cures Act. | protEffectDate | DateTime |  |  |

|                                   |  |                      |          |  |  |
|-----------------------------------|--|----------------------|----------|--|--|
| ImmunizationRegistryStatusType    | The ImmunizationRegistryStatusType custom XML field is used to store the status of the patient's immunization registry record.   | immzRegStatus        | String   |  |  |
| ImmunizationRegistryEffectiveDate | The ImmunizationRegistryEffectiveDate custom XML field in the patients table is used to store the effective date of the patient's inclusion in an immunization registry.                       | immzRegEffectiveDate | DateTime |  |  |
| MothersFirstName                  | The MothersFirstName custom XML field in the patients table is used to store the first name of the patient's mother.   | mothersFirst         | String   |  |  |
| MothersMaidenName                 | The MothersMaidenName custom XML field in the patients table is used to store the maiden name of the patient's mother.   | mothersMaiden        | String   |  |  |
| MultipleBirth                     | The MultipleBirth custom XML field is used to indicate if a patient is a multiple birth, such as being a twin or triplet.  | multipleBirth        | String   |  |  |
| BirthOrder                        | The BirthOrder custom XML field in the patients table is used to store the birth order of the patient, indicating whether they were the first, second, third, etc. child born in their family. | birthOrder           | String   |  |  |
| BirthName                         | The BirthName custom XML field in the patients   | birthName            | String   |  |  |

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  | table is used to store the name given to a patient at birth. |  |  |  |  |
|--|--|--|--|--|--|

## List<Identification> Type

The member of the List<Identification> type is used to store information about different types of identification (such as social security number or driver's license number) for a patient in an EHR software.

| Member Name                    | Type                   | Description   |
|--------------------------------|------------------------|---|
|                                | List<Identification>   | The member "IdNumber" of the List<Identification> type is used to store the unique identification number of a patient, such as a medical record number or social security number.   |
|                                | Identification         | The member of the Identification Type represents an identification number assigned to a patient by a specific assigning authority. It includes the identification number, the hierarchical designator of the assigning authority, the code representing the type of identification, and a flag indicating if the identification is complete. It is used to store and manage patient identification information in the EHR software. |
| IdNumber                       | String                 | The IdNumber member of String Type in the Identification Type is used to store the unique identification number of a patient. This number is used to uniquely identify a patient within the EHR software system.  |
| AssigningAuthority             | HierarchicalDesignator | The AssigningAuthority member of the HierarchicalDesignator Type in the Identification Type is used to specify the authority or organization that assigns the identification number. It represents the source or entity that is responsible for assigning unique identifiers for patients in an EHR software system.  |
| AssigningAuthority.NamespaceId | String                 | The NamespaceId member of String Type in the HierarchicalDesignator Type is a unique  |

|                                    |         |  |
|------------------------------------|---------|--|
|                                    |         | <p>identifier used to represent the namespace or domain in which a particular identifier or code is defined within an electronic health record (EHR) software system. It is used to ensure the uniqueness and correct interpretation of the identifier or code within the specific healthcare context or organization.</p>                       |
| AssigningAuthority.UniversalId     | String  | <p>The UniversalId member of String Type in the HierarchicalDesignator class is used to identify a unique identifier for a specific entity or object within a healthcare system. It is expected to provide a globally unique identification value for interoperability purposes in the electronic health record (EHR) software.</p>              |
| AssigningAuthority.UniversalIdType | String  | <p>The UniversalIdType member of the String Type in the HierarchicalDesignator Type is used to identify the type of universal identifier being used, which is a standardized code or format used for identifying entities in the healthcare system.</p>  |
| AssigningAuthority.complete        | Boolean | <p>The `complete` member of the Boolean type in the HierarchicalDesignator class is used to indicate whether the information in the HierarchicalDesignator object is complete or not. It is used to ensure that all the necessary fields of the HierarchicalDesignator object are filled with valid values before further processing or use.</p> |
| IdTypeCode                         | String  | <p>The IdTypeCode member of the String Type in the Identification class is used to store the code that represents the type of identification for a patient in an EHR software.</p>   |
| complete                           | Boolean | <p>The complete member of Boolean type in the Identification class is used to indicate if the identification information is complete or not. It is used to track the status of the identification data and determine if all the</p>  |

|  |  |  |
|--|--|--|
|  |  | necessary fields have been filled out. |
|--|--|--|

## List<ContactInfo> Type

The member of the List<ContactInfo> type in the Patients table is used to store contact information for patients, including phone numbers, email addresses, and communication preferences.

| Member Name      | Type              | Description   |
|------------------|-------------------|---|
|                  | List<ContactInfo> | The member of the List<ContactInfo> Type in the xml column of the patients table is used to store contact information such as phone number, email, and communication device preference for each patient in the EHR software.  |
|                  | ContactInfo       | The "Email" member of the ContactInfo type is used to store the email address of a patient in an electronic health record (EHR) software.   |
| PhoneNumberType  | String            | The PhoneNumberType member of String Type in the ContactInfo class is used to store the type of phone number associated with a patient's contact information. It could represent categories such as "home", "work", "mobile", or any other predefined phone number types. |
| PrimCommDevice   | String            | The PrimCommDevice member of String Type in the ContactInfo Type is used to store the primary communication device information for a patient, such as a mobile phone or email address.  |
| AreaCode         | String            | The AreaCode member of the ContactInfo type is a string variable that represents the area code of a phone number. It is used to store the three-digit code that identifies the geographic region associated with the phone number.  |
| LocalPhoneNumber | String            | The LocalPhoneNumber member of String Type in the ContactInfo Type represents the local phone number of a patient. It is used to store the patient's phone number for communication purposes in an EHR software.  |
| Email            | String            | The Email member of String Type in the ContactInfo class is used to store the email address of a patient.   |
| complete         | Boolean           | The "complete" member of Boolean Type in the ContactInfo class is used to indicate whether or not the contact information is  |

|  |  |                         |
|--|--|-------------------------|
|  |  | complete for a patient. |
|--|--|-------------------------|



## Recall - "recall" CSV Export

The recall table is used to keep track of patient recalls in an electronic health record (EHR) software system. It stores information about when a patient should be recalled for further medical appointments or follow-up visits. The table includes the unique patient ID, a unique recall ID, the date of the recall, and a reference to the specific recall type. This table helps to facilitate the organization and scheduling of patient appointments and ensures that patients receive the necessary follow-up care.

| Column Name | Data Type                             | Description  | Extraction Method |
|-------------|---------------------------------------|--|-------------------|
| acctid      | int                                   | The acctid column is the unique patient ID from the 'patients' table.  | CSV               |
| recid       | int                                   | The recid column is a unique identifier for each recall record in the table.   | CSV               |
| day         | date NOT NULL<br>default '0000-00-00' | The day column represents the date when a recall record was created.   | CSV               |
| rtid        | int                                   | The rtid column is an unsigned integer that represents the unique ID of a recall type from the 'recall_types' table. | CSV               |

## Alert - "alerts" CSV Export

The alerts table is used to store alerts for a particular account. Each alert is associated with a specific account and has a unique identifier. The table includes columns to store the text of the alert and flags indicating which pages the alert should be displayed on, such as the patient page, billing page, scheduling page, and record page. It is that these alerts are displayed to users of the electronic health record (EHR) software to provide important information or reminders related to the account.

| Column Name | Data Type     | Description   | Extraction Method |
|-------------|---------------|---|-------------------|
| acctid      | int           | The acctid column is the unique identifier for each account in the database.  | CSV               |
| alertid     | int           | The alertid column is a unique identifier for each alert in the alerts table.   | CSV               |
| text        | text NOT NULL | The 'text' column contains a description or message related to an alert.  | CSV               |
| patPage     | tinyint       | The patPage column stores a binary value indicating whether or not the alert should be displayed on the patient's page.                     | CSV               |
| billPage    | tinyint       | The billPage column is a Boolean indicator that determines whether an alert should be displayed on the billing page for a specific account. | CSV               |
| schedPage   | tinyint       | The schedPage column is a boolean flag indicating whether or not the alert is applicable to the scheduling page.                            | CSV               |
| recPage     | tinyint       | The recPage column is a flag indicating whether the alert should be displayed on the record page.   | CSV               |

## HIPPA Disclosure - "hippadisc" CSV Export

The hippadisc table is used to store information about HIPPA Disclosures in an EHR software system. It contains columns for the unique patient ID, a counter for the disclosure, the date and time of the disclosure, the purpose of the disclosure, what information was disclosed, and to whom it was disclosed. It also includes a column for the unique employee ID who made the disclosure. This table is used to track and document any instances of HIPPA disclosures made within the EHR system.

| Column Name | Data Type                | Description   | Extraction Method |
|-------------|--------------------------|---|-------------------|
| acctid      | int                      | The acctid column in the hippadisc table is the unique patient ID from the 'patients' table.  | CSV               |
| counter     | int                      | The counter column is a unique identifier for each record in the hippadisc table. It is an auto-incrementing integer that is generated automatically by the database system.                          | CSV               |
| datetime    | datetime<br>default NULL | The datetime column stores the date and time when an entry was made in the hippadisc table.   | CSV               |
| purpose     | varchar                  | The purpose column describes the purpose or reason for the record or entry in the hippadisc table.  | CSV               |
| what        | varchar                  | The 'what' column is a description or information about the purpose or activity recorded in the row.  | CSV               |
| towhom      | varchar                  | The towhom column contains the recipient or receiver of the specified purpose or action. It indicates the individual or entity to which the information or task is directed, without any uncertainty. | CSV               |
| empid       | int                      | The empid column is the unique employee ID from the 'employees' table.  | CSV               |

## MedComp RX - "mcrx" CSV Export

The mcrx table is used to store medical records related to medication prescriptions in an EHR software. It includes information such as the unique patient ID, the date of the medical record, the XML data of the prescription, the unique employee ID who created the record, the unique location ID, the start time of the medical record, the last time it was updated, the completion status, the end date and time of the record, XML data related to the collection of patient financial information, the date and time the record was created, and an insert GUID.

| Column Name         | Data Type                          | Description  | Extraction Method         |
|---------------------|------------------------------------|--|---------------------------|
| acctid              | int                                | The acctid column in the mcrx table is the unique patient ID from the 'patients' table.  | CSV                       |
| medical_record_date | date NOT NULL default '0000-00-00' | The medical_record_date column represents the date of the medical record entry.  | CSV                       |
| xml                 | text                               | The xml column stores XML data related to a specific medical record.   | CSV + XML Deserialization |
| empid               | int                                | The empid column is the unique employee ID associated with each record in the mcrx table.  | CSV                       |
| id                  | bigint                             | The id column is a unique identifier for each record in the mcrx table.  | CSV                       |
| locid               | int                                | The locid column is the unique location ID that identifies the location where the medical record entry was created.                                    | CSV                       |
| mr_start_time       | time default NULL                  | The mr_start_time column indicates the start time of the medical record entry.   | CSV                       |
| last_updated        | datetime default NULL              | The last_updated column in the mcrx table represents the date and time when the record was last modified or updated.                                   | CSV                       |
| complete            | tinyint                            | The 'complete' column indicates whether the medical record for a patient is complete or not. It is a binary flag, where 1 indicates that the record is | CSV                       |

|                  |                          |  |                              |
|------------------|--------------------------|--|------------------------------|
|                  |                          | complete and 0 indicates that it is not complete.  |                              |
| mr_end_datetime  | datetime<br>default NULL | The mr_end_datetime column stores the date and time when the medical record was completed.   | CSV                          |
| mc_fi_coll_xml   | text                     | The mc_fi_coll_xml column holds the XML data for collecting medication information during a medical record encounter.                | CSV + XML<br>Deserialization |
| created_datetime | datetime<br>default NULL | The created_datetime column stores the date and time at which the record was created in the database.                                | CSV                          |
| insert_guid      | varchar                  | The insert_guid column is a unique identifier that is automatically generated whenever a new record is inserted into the mcrx table. | CSV                          |

## MedComp - "mcs" CSV Export

The mcs table is a database table that is used to store medical records for patients in an EHR software. It contains information such as the unique patient ID (acctid), the date of the medical record, the XML representation of the record, the unique employee ID (empid) who created the record, and the unique location ID (locid) where the record was created. It also includes additional columns related to the start and end times of the medical record, as well as timestamps for when the record was last updated and created. The table may also store other related information such as a collection of XML data for a specific medical component. Overall, the mcs table is an essential component for managing and retrieving medical records in an EHR system.

| Column Name         | Data Type                             | Description  | Extraction Method            |
|---------------------|---------------------------------------|--|------------------------------|
| acctid              | int                                   | The 'acctid' column is the unique identifier for a patient in the database.                                  | CSV                          |
| medical_record_date | date NOT NULL<br>default '0000-00-00' | The medical_record_date column is a date value that represents the date of the medical record.               | CSV                          |
| xml                 | mediumtext                            | The xml column in the MCS table contains XML data related to medical records.                                | CSV + XML<br>Deserialization |
| empid               | int                                   | The empid column is the unique employee ID from the 'employees' table.                                       | CSV                          |
| id                  | bigint                                | The id column is a unique identifier for each record in the mcs table.                                       | CSV                          |
| locid               | int                                   | The locid column is the unique identifier for the location where the medical record was created or accessed. | CSV                          |
| mr_start_time       | time default NULL                     | The mr_start_time column is a time value indicating the start time of a medical record entry.                | CSV                          |
| last_updated        | datetime default NULL                 | The last_updated column represents the date and time when the record was last modified or updated.           | CSV                          |

|                  |                          |  |                              |
|------------------|--------------------------|--|------------------------------|
| complete         | tinyint                  | The complete column indicates whether the medical record is marked as complete or not.                                 | CSV                          |
| mr_end_datetime  | datetime default<br>NULL | The mr_end_datetime column is the date and time when the medical record was completed or ended.                        | CSV                          |
| mc_fi_coll_xml   | text                     | The mc_fi_coll_xml column stores the XML data related to the medical collection process for a specific medical record. | CSV + XML<br>Deserialization |
| created_datetime | datetime default<br>NULL | The created_datetime column stores the date and time when the record was created in the MCS database.                  | CSV                          |
| insert_guid      | varchar                  | The insert_guid column is a unique identifier generated for each record inserted into the table.                       | CSV                          |

## User Defined Fields - mcs table - xml column

The custom XML field data that will be in the mcs table's xml column is dependent on the user-defined fields in the medical record template. Refer to the med\_rec\_template\_fields CSV file to discover what the user defined fields represent, and how to extract the data from the xml column.



## MedComp\_FieldInfo\_Collection Type

The MedComp\_FieldInfo\_Collection Type is a collection of field information related to medical components. It is used in an electronic health record (EHR) software to store and manage data about different components used in medical records. A MedComp\_FieldInfo\_Collection is serialized as XML in the mc-fi\_coll\_xml column in the mcs table.

| Member Name        | Type                         | Description   |
|--------------------|------------------------------|---|
|                    | MedComp_FieldInfo_Collection | The member "McFiFidSortedList" is a sorted list of MedComp_FieldInfo objects, representing the field information for a medical component in an EHR software.  |
| McFiFidSortedList  | List<MedComp_FieldInfo>      | The McFiFidSortedList member of the MedComp_FieldInfo_Collection Type is used to store a sorted list of MedComp_FieldInfo objects. It is used to organize and retrieve information related to medical components, such as field IDs, null flavor codes, unit UCUM codes, translation codes, start dates, and end dates. This allows for efficient access and manipulation of the field information associated with medical components within an EHR software. |
| McFiFidSortedList. | MedComp_FieldInfo            | The member of the MedComp_FieldInfo Type is used to store   |

|                                   |        |  |
|-----------------------------------|--------|--|
|                                   |        | information about a specific field or attribute of a medical component in an EHR software. It includes details such as the field identifier (Fid), null flavor code, unit UCUM code, a list of translation codes, and the start and end dates associated with the field. |
| McFiFidSortedList..Fid            | Int32  | The Fid member of Int32 Type in the MedComp_FieldInfo Type is used to store an identifier or key value that uniquely identifies a specific field within a medical component record.  |
| McFiFidSortedList..NullflavorCode | String | The NullflavorCode member of String Type in the MedComp_FieldInfo Type is used to indicate the reason for a missing or unavailable value in a specific field of a medical component in an EHR software.  |
| McFiFidSortedList..UnitUcumCode   | String | The UnitUcumCode member of String Type in the MedComp_FieldInfo Type is a code that represents the unit of measurement for a medical component. It is used to standardize the units of measurement used in electronic health records (EHR) software.                     |

|   |            |   |
|---|------------|---|
| McFiFidSortedList..TranslationCodeList          | List<Code> | The TranslationCodeList member of List<Code> Type is used to store a collection of codes that represent translations or mappings for a specific medical concept or term. This allows for interoperability and standardization across different code systems or terminology sets used in healthcare.   |
| McFiFidSortedList..TranslationCodeList.         | Code       | The member of Code Type is used to store information about medical codes, such as diagnosis or procedure codes, within an Electronic Health Record (EHR) software. It includes properties such as the code string, description, code system, code system version, value set, and other related information.   |
| McFiFidSortedList..TranslationCodeList..CodeStr | String     | The CodeStr member of String Type in the Code Type is a string that represents the numerical or alphanumeric code associated with a medical concept or term. It is used to store standardized codes, such as ICD-10 or CPT codes, used in electronic health records (EHR) for the purpose of accurately documenting and exchanging medical information. |

|   |        |  |
|---|--------|--|
| McFiFidSortedList..TranslationCodeList..Description       | String | The Description member of String Type in the Code Type is used to store a textual description or explanation of a code. It provides additional information or context about the code value, which may be used in EHR software for documentation and understanding of the code.   |
| McFiFidSortedList..TranslationCodeList..CodeSystem        | String | The CodeSystem member of String Type in the Code Type is used to represent the name or identifier of the coding system used for a particular code.   |
| McFiFidSortedList..TranslationCodeList..CodeSystemVersion | String | The CodeSystemVersion member of String Type in the Code Type is used to specify the version of the code system that the code belongs to.   |
| McFiFidSortedList..TranslationCodeList..ValueSet          | String | The ValueSet member of the Code Type is a string that represents a specific set of values or codes that are used within an Electronic Health Record (EHR) software. It is used to provide standardized codes or values for specific data elements within the EHR, ensuring consistency and interoperability across different healthcare systems. |

|   |          |   |
|---|----------|---|
| McFiFidSortedList..TranslationCodeList..id                  | String   | The "id" member of String Type in the Code Type is used to uniquely identify a specific code within the EHR software.   |
| McFiFidSortedList..TranslationCodeList..codeSystemName      | String   | The `codeSystemName` member of the `String` type in the `Code` class is used to store the name of the code system associated with a particular medical code.                      |
| McFiFidSortedList..TranslationCodeList..valueSetVersion     | String   | The valueSetVersion member of String Type in the Code Type is used to specify the version of the value set to which the code belongs.   |
| McFiFidSortedList..TranslationCodeList..nullFlavor          | String   | The nullFlavor member of String Type in the Code Type is used to indicate the absence or unknown value of a code.   |
| McFiFidSortedList..TranslationCodeList..codeType            | CodeType | The codeType member of the CodeType Type is used to identify the type of code being used in the EHR software, such as a diagnostic code or procedure code.                        |
| McFiFidSortedList..TranslationCodeList..codeType.id         | Int32    | The `id` member of the `Int32` type in the `CodeType` type is used to store a unique identifier or code for the specific code type in an electronic health record (EHR) software. |
| McFiFidSortedList..TranslationCodeList..codeType.typeString | String   | The typeString member of  |

|                              |                    |  |
|------------------------------|--------------------|--|
| typeString                   |                    | String Type in the CodeType Type is used to store the type of code associated with a particular record in an electronic health record (EHR) software.                                  |
| McFiFidSortedList..StartDate | Nullable<DateTime> | The StartDate member of the Nullable<DateTime> Type in the MedComp_FieldInfo Type is used to represent the start date of a medical component.  |
| McFiFidSortedList..EndDate   | Nullable<DateTime> | The EndDate member of Nullable<DateTime> Type in the MedComp_FieldInfo Type is used to store the end date of a specific field information in an electronic health record (EHR) system. |

## MedComp Log - "mcs\_log" CSV Export

The mcs\_log table is used to store logs of MedComp activities within an EHR software. It includes information such as the date and time of the log entry, the employee ID associated with the activity, the patient ID involved, and the XML data related to the activity. It also stores the unique ID for each log entry and the host information where the activity occurred. Additionally, it includes the start time and end date/time for a medical record review, as well as the location ID where the activity took place. The table is crucial for tracking and analyzing MedComp activities within the EHR system.

| Column Name   | Data Type  | Description   | Extraction Method            |
|---------------|--|---|------------------------------|
| time          | datetime NOT NULL<br>default '1000-01-01 00:00:00' | The time column represents the precise date and time when the log entry was recorded.   | CSV                          |
| empid         | int  | The empid column is the unique employee ID from the employees table.  | CSV                          |
| acctid        | int  | The acctid column is the unique account ID associated with the patient.   | CSV                          |
| mc_date       | date NOT NULL<br>default '1000-01-01'              | The "mc_date" column stores the specific date associated with the entry in the MCS log.                                       | CSV                          |
| xml           | text NOT NULL                                      | The 'xml' column contains XML data that is not nullable and is necessary for the 21st Century Cures Act B.10 All Data Export. | CSV + XML<br>Deserialization |
| mcs_log_id    | int  | The mcs_log_id column is an auto-incrementing primary key that uniquely identifies each record in the mcs_log table.          | CSV                          |
| host          | varchar  | The host column stores the hostname or domain name of the server where the MCS log was generated.                             | CSV                          |
| mr_start_time | time default NULL                                  | The mr_start_time column represents the start time of a medical record entry.   | CSV                          |

|                 |                          |   |     |
|-----------------|--------------------------|---|-----|
| mr_end_datetime | datetime default<br>NULL | The mr_end_datetime column represents the date and time when the medical record entry was completed or ended. | CSV |
| locid           | int                      | The locid column is a unique identifier for the location where the medical case log entry was recorded.       | CSV |



## User Defined Fields - mcs\_log table - xml column

The custom XML field data that will be in the mcs\_log table's xml column is dependent on the user-defined fields in the medical record template. Refer to the med\_rec\_template\_fields CSV file to discover what the user defined fields represent, and how to extract the data from the xml column.

## mcs\_log table - xml column Custom XML Extraction

| Name   | Description   | Field | Data Type      | Serialization Type | Serialized Type |
|--------|---|-------|----------------|--------------------|-----------------|
| Footer | The Footer custom XML field is used to store information related to the footer section of a document or report generated by the EHR software. It may contain details such as page numbers, document version, copyright information, or other relevant information that needs to be displayed at the bottom of the document. | m     | Integer 32-Bit |                    |                 |
| Notes  | The "Notes" custom XML field in the "mcs_log" table is used to store additional notes or comments related to the MedComp Logs.  | n     | Integer 32-Bit |                    |                 |

## Comment - "comments" CSV Export

The comments table is used to store comments related to a specific account or patient. Each comment is associated with a unique account ID and has a comment ID for identification. The table also includes the date on which the comment was made, the actual comment text, and an optional XML field for storing additional information. The comments can be of different types, which are represented by a single character. Overall, the table is used to capture and track various comments made within an electronic health record (EHR) system.

| Column Name | Data Type                             | Description  | Extraction Method            |
|-------------|---------------------------------------|--|------------------------------|
| acctid      | int                                   | The acctid column is the unique patient ID from the 'patients' table.                              | CSV                          |
| commentid   | int                                   | The commentid column is a unique identifier for each comment in the comments table.                | CSV                          |
| day         | date NOT NULL<br>default '0000-00-00' | The day column represents the specific date when a comment was made.                               | CSV                          |
| comment     | text                                  | The comment column contains text comments related to a specific account.                           | CSV                          |
| type        | char                                  | The type column is a single character that categorizes the comment in some way.                    | CSV                          |
| xml         | text                                  | The xml column contains XML data that is associated with the comments made in the comments column. | CSV + XML<br>Deserialization |

## comments table - xml column Custom XML Extraction

| Name            | Description   | Field | Data Type      | Serialization Type | Serialized Type |
|-----------------|---|-------|----------------|--------------------|-----------------|
| Text Fore Color | The 'Text Fore Color' custom XML field in the comments table is used to specify the foreground color (i.e., the color of the text) in an electronic health record (EHR) software. It is represented as a 32-bit ARGB value, allowing for a wide range of color options. | a     | Integer 32-Bit |                    |                 |
| Text Back Color | The "Text Back Color" custom XML field in the comments table is used to store a 32-bit ARGB value representing the background color of text in an EHR software.   | b     | Integer 32-Bit |                    |                 |

## Invoice - "invoice" CSV Export

The invoice table in the EHR software is used to store information about invoices. It contains details such as the unique invoice ID, the unique patient ID associated with the invoice, the date of the invoice, the balance due from the patient, the balance due from the insurance company, the XML data associated with the invoice, the unique employee ID who created the invoice, the unique location ID where the invoice was created, whether the invoice is a quote, the optional ID associated with the invoice, and the date and time the invoice was created.

| Column Name | Data Type                             | Description   | Extraction Method            |
|-------------|---------------------------------------|---|------------------------------|
| invoiceid   | int                                   | The invoiceid column is a unique identifier for each invoice in the invoice table.                                      | CSV                          |
| acctid      | int                                   | The acctid column is the unique patient ID associated with each invoice in the invoice table.                           | CSV                          |
| day         | date NOT NULL<br>default '0000-00-00' | The day column stores the date when the invoice was created.  | CSV                          |
| void_day    | date default NULL                     | The void_day column represents the date on which the invoice was voided.  | CSV                          |
| pat_bal     | bigint                                | The pat_bal column in the invoice table represents the outstanding balance for the patient associated with the invoice. | CSV                          |
| ins_bal     | bigint                                | The ins_bal column stores the outstanding balance for insurance payments on the invoice.                                | CSV                          |
| xml         | text                                  | The xml column stores XML data related to the invoice.  | CSV + XML<br>Deserialization |
| empid       | int                                   | The empid column is the unique employee ID assigned to each employee in the database.                                   | CSV                          |
| locid       | int                                   | The locid column is the unique location ID associated with the invoice.   | CSV                          |
| quote       | tinyint                               | The quote column indicates whether the invoice is a   | CSV                          |

|            |                          |   |     |
|------------|--------------------------|---|-----|
|            |                          | quote or not.   |     |
| optid      | int                      | The optid column represents the optional ID associated with the invoice.                        | CSV |
| createdate | datetime default<br>NULL | The createdate column is a timestamp indicating the date and time when the invoice was created. | CSV |

## invoice table - xml column Custom XML Extraction

| Name   | Description  | Field | Data Type | Serialization Type | Serialized Type |
|--------|--|-------|-----------|--------------------|-----------------|
| Footer | The Footer custom XML field in the invoice table is used to store additional information or text that is displayed at the bottom of an invoice. It is used to include any relevant legal notices, disclaimers, or other important information that should be included in the invoice.  | m     | String    |                    |                 |
| Notes  | The "Notes" custom XML field in the invoice table is used to store additional written information or comments relevant to the invoice. It allows users to add any necessary notes or explanations about the invoice, such as specific instructions, details about the services provided, or any other pertinent information. | n     | String    |                    |                 |

## Appointment Waitlist - "appt\_waitlist" CSV Export

The appt\_waitlist table is used to store information about appointment waitlists in an EHR software. It includes columns such as acctid, locid, notes, primcontact, and xml. The acctid column represents the unique patient ID, the locid column represents the unique location ID, the notes column contains any additional notes, the primcontact column stores the primary contact information, and the xml column stores additional data in XML format. This table is used to manage and track patients who are waiting for appointments in the EHR system.

| Column Name | Data Type | Description   | Extraction Method         |
|-------------|-----------|---|---------------------------|
| id          | bigint    | The id column is a unique identifier for each record in the appt_waitlist table.  | CSV                       |
| acctid      | int       | The acctid column is the unique identifier for each patient in the database.  | CSV                       |
| locid       | int       | The locid column stores the unique location ID from the 'locations' table.  | CSV                       |
| notes       | text      | The notes column contains additional information or comments related to the appointment waitlist entry.                                 | CSV                       |
| primcontact | varchar   | The primcontact column contains the primary contact information, such as name and contact details, for the appointment waitlist record. | CSV                       |
| xml         | text      | The xml column contains a text representation of structured data, in XML format.  | CSV + XML Deserialization |



## WaitlistEntry Type

The WaitlistEntry Type is a data structure used within an EHR software to represent an entry in an appointment waitlist. It contains information such as the priority of the entry and the current call status. The purpose of this Type is to provide a structured representation of the data associated with an appointment waitlist entry, allowing for easy retrieval and manipulation within the EHR system. A WaitlistEntry is serialized as XML in the xml column in the appt\_waitlist table.

| Member Name      | Type          | Description  |
|------------------|---------------|--|
|                  | WaitlistEntry | The member "priority" in the WaitlistEntry type is used to indicate the priority level of an appointment on the waitlist.  |
| priority         | Priority      | The priority member of the Priority Type in the WaitlistEntry Type is used to indicate the priority level of an appointment waitlist entry in an EHR software.   |
| priority.value__ | Int32         | The value__ member of the Int32 Type in the Priority enum is an automatically generated member that represents the underlying value of each enum member. It is used to internally track the numerical value assigned to each enum member, which is used for comparison, storage, and serialization purposes in the EHR software. |
| priority.High    | Priority      | The High member of the Priority enum type in the WaitlistEntry class is used to indicate a high priority for an appointment waitlist entry in an electronic health record (EHR) software.  |
| priority.Normal  | Priority      | The Normal member of the Priority Type is used to indicate a medium level of importance for a waitlist entry in an EHR software.   |
| priority.Low     | Priority      | The Low member of the Priority Type in the WaitlistEntry class is used to indicate the lowest priority level for an appointment waitlist in an EHR software system.  |
| callstatus       | String        | The callstatus member of the String Type in the WaitlistEntry Type is used to indicate the current status of a call made regarding the appointment waitlist.   |

## Appointment - "appts" CSV Export

The appts table contains information about appointments made within an Electronic Health Record (EHR) software. It includes various columns such as the ID of the patient, employee, and location related to the appointment. There are also columns for the date and time of the appointment, as well as additional details stored as XML. The table also keeps track of whether the appointment has been shown, rescheduled, or signed out. The table is used to manage and track appointments within the EHR system.

| Column Name | Data Type                          | Description  | Extraction Method         |
|-------------|------------------------------------|--|---------------------------|
| schedid     | int                                | The schedid column is a unique identifier for each appointment in the appts table.   | CSV                       |
| acctid      | int                                | The acctid column is the unique patient ID associated with the appointment.  | CSV                       |
| empid       | int                                | The empid column in the appts table is the unique employee ID of the employee associated with the appointment.   | CSV                       |
| mdate       | date NOT NULL default '0000-00-00' | The mdate column stores the date of the appointment.   | CSV                       |
| mtime       | time NOT NULL default '00:00:00'   | The mtime column represents the time of the appointment.   | CSV                       |
| xml         | text                               | The xml column contains XML data which may store additional information related to an appointment.   | CSV + XML Deserialization |
| showed      | tinyint                            | The 'showed' column indicates whether or not an appointment was attended by the patient.   | CSV                       |
| si          | tinyint                            | The "si" column is a boolean flag indicating whether the appointment is a self-scheduled appointment. It is used to differentiate between appointments scheduled by the patient themselves and appointments scheduled by | CSV                       |

|                |   |  |     |
|----------------|---|--|-----|
|                |   | another party.   |     |
| reschedid      | int   | The reschedid column is a unique identifier for the appointment that was rescheduled.  | CSV |
| signedout      | tinyint   | The signedout column indicates whether the appointment has been signed out or not.   | CSV |
| yearout        | tinyint   | The 'yearout' column represents the year in which the appointment was made or scheduled.   | CSV |
| last_updated   | datetime NOT NULL default '2008-01-01 00:00:00' | The 'last_updated' column is a datetime column that represents the date and time of the most recent update made to a record in the 'appts' table.  | CSV |
| deleted        | tinyint   | The 'deleted' column indicates whether the appointment has been marked as deleted or not.  | CSV |
| ws_updated     | datetime default NULL                           | The ws_updated column is a datetime column that indicates the date and time when the record in the appts table was last updated.   | CSV |
| eppointid      | int   | The eppointid column is an integer that represents the unique ID of the appointment in the EPP system.   | CSV |
| locid          | int   | The locid column is the unique ID of the location where the appointment is scheduled to take place.  | CSV |
| discharge_disp | varchar   | The discharge_disp column contains information about the discharge disposition of a patient after an appointment. We can be confident in this answer because the name of the column, 'discharge_disp', suggests that it is related to the discharge outcome or location. | CSV |
| room           | varchar   | The 'room' column in the 'appts' table stores the room number where the appointment is scheduled to take place.  | CSV |
| roomtime       | datetime default NULL                           | The roomtime column is a datetime column that stores the date and time when the patient entered the room for their appointment.  | CSV |

|                    |                          |   |     |
|--------------------|--------------------------|---|-----|
| created_date       | datetime<br>default NULL | The created_date column stores the date and time when the appointment record was created in the database.   | CSV |
| hash               | varchar                  | The `hash` column stores a unique hash value associated with each record in the `appts` table. This hash value is used for identification and reference purposes. | CSV |
| ecl_imw_visit_id   | varchar                  | The "ecl_imw_visit_id" column is a unique identifier for a visit in the ECL IMW system.   | CSV |
| mi7_hl7_appt_id    | varchar                  | The mi7_hl7_appt_id column is a unique identifier for an appointment in the HL7 format.   | CSV |
| mi7_appt_type_desc | varchar                  | The 'mi7_appt_type_desc' column in the 'appts' table is a varchar(100) column that stores a descriptive text for the type of appointment.                         | CSV |
| mi7_appt_type_code | varchar                  | The mi7_appt_type_code column is a varchar(50) column that stores the code representing the appointment type in the 'appts' table.                                | CSV |

## appts table - xml column Custom XML Extraction

| Name                | Description   | Field | Data Type      | Serialization Type | Serialized Type |
|---------------------|---|-------|----------------|--------------------|-----------------|
| Duration in minutes | The Duration in minutes custom XML field is used to store the duration of the appointment in minutes. | f     | Integer 32-Bit |                    |                 |
| Marketing           | The Marketing custom XML field in the appts table is used to store JSON formatted marketing data.     | z     | Time           | JSON               |                 |

## Marketing - "pat\_markets" CSV Export

The pat\_markets table contains information related to marketings. It stores data about different marketing campaigns or strategies used by the EHR software. The table includes columns such as the unique patient ID, the marketing ID, the name of the marketing campaign, the control type, and the value associated with the campaign. This table is used to track and analyze marketing efforts within the EHR software.

| Column Name | Data Type | Description  | Extraction Method |
|-------------|-----------|--|-------------------|
| acctid      | int       | The acctid column is the unique patient ID from the 'patients' table.          | CSV               |
| id          | bigint    | The id column is a unique identifier for each entry in the pat_markets table.  | CSV               |
| name        | varchar   | The name column stores the name of a market.                                   | CSV               |
| controlType | int       | The controlType column indicates the type of control associated with a market. | CSV               |
| value       | varchar   | The value column contains a specific value associated with a market.           | CSV               |

## Market Type

The Market Type is used within an EHR software to store information related to different marketing campaigns or strategies. It includes fields such as the market's ID and name, options for controlling the display of the market name, a list of market names, and values for specific market attributes such as control type, boolean value, string value, and long value. This type is used to track and manage marketing efforts within the software, allowing users to customize and analyze different marketing campaigns. A Market is serialized as XML in the xml column in the pat\_markets table.

| Member Name     | Type       | Description   |
|-----------------|------------|---|
|                 | Market     | The member "ControlType" in the Market Type is used to determine the type of control used in the EHR software for the specific market.  |
| Id              | Int64      | The Id member of Int64 Type in the Market Type is used to uniquely identify a specific market within the EHR software. It is used to retrieve, update, and delete market records in the database, and may serve as a reference or identifier for other related data or functionality within the software. |
| Name            | String     | The Name member of String Type in the Market Type is used to store the name or title of a market or marketing entity within an EHR software system.   |
| DontShowName    | Boolean    | The DontShowName member of Boolean Type in the Market Type is used to determine whether or not the market name should be displayed. If DontShowName is set to true, the market name will not be shown, and if it is set to false, the market name will be displayed in the EHR software.                  |
| MarketName      | MarketName | The MarketName member of the Market Type is used to store the name and identifier of a specific market name within the EHR software. It allows for the identification and referencing of different market names within the system.  |
| MarketName.Name | String     | The Name member of String Type in the MarketName Type is used to store the name or description of a market name in EHR software.  |
| MarketName.Id   | Int64      | The Id member of Int64 Type in the MarketName Type is used  |

|                  |                  |   |
|------------------|------------------|---|
|                  |                  | as a unique identifier for a specific market name. It is used to uniquely identify market names within the EHR software, allowing for easy referencing and retrieval of specific market names in various operations and functionalities.  |
| MarketNameList   | List<MarketName> | The MarketNameList member of the List<MarketName> type in the Market class is used to store a collection of market names associated with a particular market. It is used to manage and display multiple market names for a market in an EHR software.   |
| MarketNameList.  | MarketName       | The member of the MarketName Type, which is a member of the List<MarketName> Type, is used to store a list of market names associated with a Market.  |
| NextMarketNameId | Int64            | The NextMarketNameId member of Int64 Type in the Market Type is used to store the ID of the next market name to be assigned in the EHR software.  |
| ControlType      | String           | The ControlType member of String Type in the Market Type is used to specify the type of control associated with the market. This could refer to the type of input control (e.g., text box, dropdown list) or the type of control used in displaying or interacting with the market within the EHR software. |
| BoolValue        | Boolean          | The BoolValue member of Boolean Type in the Market Type is used to store a boolean value indicating whether a specific market is enabled or disabled in the EHR software.   |
| StringValue      | String           | The StringValue member of type String in the Market class is used to store a string value related to a market in an EHR software.   |
| LongValue        | Int64            | The LongValue member of the Int64 Type in the Market class is used to store a long integer value related to a market. It could potentially represent a numerical identifier or a specific value associated with the market in the EHR software.   |



## Reminder - "reminders" CSV Export

The reminders table is used to store reminders for various activities within the EHR software. It contains information such as the date of the reminder, the reminder text, the employee who signed off on the reminder, the recipient of the reminder, the location associated with the reminder, and other related data. The table also includes fields for the due date of the reminder, any additional XML data related to the reminder, the account ID of the patient associated with the reminder, and timestamps for creation and last modification of the reminder.

| Column Name        | Data Type                             | Description  | Extraction Method            |
|--------------------|---------------------------------------|--|------------------------------|
| remid              | int                                   | The remid column is the primary key of the reminders table.  | CSV                          |
| day                | date NOT NULL<br>default '0000-00-00' | The day column represents the date for which the reminder is scheduled.  | CSV                          |
| text               | text                                  | The text column contains the content or message of the reminder.   | CSV                          |
| signoff            | time default NULL                     | The signoff column is a time stamp indicating the time at which the reminder was signed off.                           | CSV                          |
| soempid            | int                                   | The soempid column represents the ID of the employee who provided the signoff for the reminder.                        | CSV                          |
| recid              | int                                   | The recid column is a numeric field that represents a record ID within the context of the reminders table.             | CSV                          |
| locid              | int                                   | The locid column is a foreign key that represents the unique ID of the location where the reminder is associated with. | CSV                          |
| reminders_due_date | datetime<br>default NULL              | The reminders_due_date column stores the date and time when a reminder is due.   | CSV                          |
| rem_xml            | text                                  | The rem_xml column stores XML data related to reminders.   | CSV + XML<br>Deserialization |

|               |                          |  |     |
|---------------|--------------------------|--|-----|
| acctid        | int                      | The acctid column is the unique patient ID from the 'patients' table.                  | CSV |
| createdt      | datetime<br>default NULL | The createdt column represents the date and time when the reminder was created.        | CSV |
| last_modified | datetime<br>default NULL | The last_modified column stores the date and time when the record was last modified.   | CSV |
| empid         | int                      | The empid column is the unique employee ID from the employees table.                   | CSV |
| msg_datetime  | datetime<br>default NULL | The msg_datetime column stores the date and time when the message was created or sent. | CSV |

## reminders table - xml column Custom XML Extraction

| Name              | Description   | Field | Data Type      | Serialization Type | Serialized Type |
|-------------------|---|-------|----------------|--------------------|-----------------|
| Owner Employee ID | The Owner Employee ID custom XML field in the reminders table is used to store the unique identifier of the employee who owns or is responsible for a particular reminder.  | a     | Integer 32-Bit |                    |                 |
| Urgent            | The Urgent custom XML field in the reminders table is used to indicate whether a reminder is of high priority or requires immediate attention.  | b     | Bool           |                    |                 |
| Owner Group       | The Owner Group custom XML field in the reminders table is used to store the group to which the owner of the reminder belongs. This field is used to organize and group reminders based on the owner's group, allowing for easier management and categorization of reminders within the EHR software. | c     | String         |                    |                 |

## Authorization Log - "authlogs" CSV Export

The authlogs table is used to store logs related to authorization activities in the electronic health record (EHR) system. It records information such as the ID of the account that performed the authorization, the specific log entry ID, the logged data, and the date and time of the log entry. This table is used to track and monitor authorization activities for auditing and security purposes in compliance with the 21st Century Cures Act B.10 All Data Export requirement.

| Column Name | Data Type                | Description  | Extraction Method            |
|-------------|--------------------------|--|------------------------------|
| acctid      | int                      | The acctid column is the unique patient ID from the 'patients' table.  | CSV                          |
| logid       | int                      | The logid column is an auto-incrementing identifier for each entry in the authlogs table.  | CSV                          |
| data        | text                     | The data column contains miscellaneous information related to authentication logs for a user account.                            | CSV + Binary Deserialization |
| datet       | datetime<br>default NULL | The datet column is a datetime data type that stores the date and time of an event or action related to the authentication logs. | CSV                          |

## Transaction Payment - "trans\_pay" CSV Export

The trans\_pay table is used to store information about transaction payments made within an EHR software. It contains details such as the transaction ID, invoice ID, date of payment, patient balance, insurance balance, insurance ID, payment type, XML data, location ID, and cashier ID. This table is used to track and manage payments made by patients and insurance companies for medical services provided.

| Column Name | Data Type                             | Description   | Extraction Method            |
|-------------|---------------------------------------|---|------------------------------|
| transid     | int                                   | The transid column is a unique identifier for each transaction in the trans_pay table.                                | CSV                          |
| invoiceid   | int                                   | The invoiceid column is the unique identifier for each invoice in the trans_pay table.                                | CSV                          |
| day         | date NOT NULL<br>default '0000-00-00' | The day column stores the specific date on which the transaction occurred.  | CSV                          |
| pat_bal     | bigint                                | The pat_bal column is the balance owed by the patient for a particular transaction.                                   | CSV                          |
| ins_bal     | bigint                                | The ins_bal column represents the outstanding balance amount for insurance in the transaction record.                 | CSV                          |
| insid       | int                                   | The 'insid' column contains the ID of the insurance provider associated with the transaction.                         | CSV                          |
| type        | int                                   | The type column represents the specific type of transaction.  | CSV                          |
| xml         | text                                  | The xml column in the trans_pay table contains XML data associated with a transaction.                                | CSV + XML<br>Deserialization |
| locid       | int                                   | The locid column represents the unique ID of the location where the transaction took place.                           | CSV                          |
| cashierid   | int                                   | The cashierid column is a numeric identifier representing the unique ID of the cashier who processed the transaction. | CSV                          |



## trans\_pay table - xml column Custom XML Extraction

| Name                              | Description  | Field          | Data Type      | Serialization Type | Serialized Type |
|-----------------------------------|--|----------------|----------------|--------------------|-----------------|
| Original Transaction Table Number | The Original Transaction Table Number custom XML field is used to store the table number of the original transaction in the EHR software.  | ottn           | Integer 64-Bit |                    |                 |
| Original Transaction ID           | The Original Transaction ID custom XML field in the trans_pay table is used to store the unique identifier of the original transaction in the EHR software. This field is used for tracking and referencing purposes, allowing the software to link the current transaction with its corresponding original transaction. | oti            | Integer 64-Bit |                    |                 |
| Linked Transaction                | The Linked Transaction custom XML field in the trans_pay table contains a string that represents linked transactions. It consists of the invoiceid and transid of the linked transaction, separated by a comma.  | LinkedTrans    | String         |                    |                 |
| Linked Invoice IDs                | The Linked Invoice IDs custom XML field in the trans_pay table is used to store a string containing the invoice IDs of linked invoices.  | LinkedInvoices | String         |                    |                 |
| Transaction Payment Details       | The Transaction Payment Details custom XML field in the trans_pay table is used to store specific details related to the payment made for a transaction. It could include information such as payment method, amount paid, payment date, and any additional notes or comments related to the transaction payment.        | pd             | String         |                    |                 |
| Number of Trans                   | The "Number of Trans Payment Details" custom XML field in the  | numDet         | String         |                    |                 |

|                            |  |               |                |  |  |
|----------------------------|--|---------------|----------------|--|--|
| Payment Details            | trans_pay table is used to specify the total number of payment details associated with a transaction.  |               |                |  |  |
| Credit Card Type           | The "Credit Card Type" custom XML field in the trans_pay table is used to store the type of credit card used for a particular transaction payment.   | 0             | String         |  |  |
| Insurance Credit Card Type | The Insurance Credit Card Type custom XML field in the trans_pay table is used to store the type of credit card used for insurance payment.  | 4             | String         |  |  |
| Description                | The Description custom XML field in the trans_pay table is used to store a description or additional information related to a transaction payment.   | a             | String         |  |  |
| Fee Amount                 | The Fee Amount custom XML field in the trans_pay table represents the amount of fees associated with the transaction payment. It is used to store a monetary value as a 64-bit integer.  | fees          | Integer 64-Bit |  |  |
| Claim Payment Data         | The Claim Payment Data custom XML field in the trans_pay table is used to store data related to claim payments made in the EHR software. This data may include information about the insurance company, payment amounts, claim status, and other relevant details related to the processing of insurance claims. | Claim_Payment | Serialized     |  |  |
| Check Number (Type 2)      | The Check Number (Type 2) custom XML field in the trans_pay table is used to store the check number or reference number for an insurance check payment or electronic fund transfer payment.  | 2             | String         |  |  |
| Check Number               | The Check Number (Type 1) custom XML field in the trans_pay table is   | 1             | String         |  |  |



|                            |  |                |        |  |  |
|----------------------------|--|----------------|--------|--|--|
| (Type 1)                   | used to store the check number associated with a payment made by a patient using a check or an insurance check.  |                |        |  |  |
| Credit Card Information    | The "Credit Card Information" custom XML field in the trans_pay table contains data related to the credit card used for the transaction payment. It includes details such as the credit card number, cardholder name, expiration date, and billing address. The purpose of this field is to store information about the credit card used for the transaction, which can be important for payment processing and record keeping purposes. | CreditCardInfo | String |  |  |
| Online Payment Information | The Online Payment Information custom XML field contains data related to online payments used with the transaction payment.  | onlinepayment  | String |  |  |
| Credit Card Type           | The "Credit Card Type" custom XML field in the trans_pay table is used to store the type of credit card used for a transaction payment.  | ccctype        | String |  |  |

## Invoice Transaction Item - "inv\_trans\_items" CSV Export

The inv\_trans\_items table is used to store the relationship between individual items and their respective invoice transactions. Each row in the table represents a specific item that is associated with a particular invoice transaction. It serves as a way to track and manage inventory for the EHR software, allowing for accurate record-keeping and billing processes.

| Column Name | Data Type | Description  | Extraction Method |
|-------------|-----------|--|-------------------|
| id          | int       | The id column is a unique identifier for each record in the inv_trans_items table.           | CSV               |
| itemid      | int       | The itemid column is a unique identifier for each item in the inventory.                     | CSV               |
| transid     | int       | The transid column is a unique identifier for each transaction in the inv_trans_items table. | CSV               |

## Contact Lens Log - "cl\_log" CSV Export

The cl\_log table is used to store logs related to contact lenses within an electronic health record (EHR) software. It includes information such as the unique patient ID, the unique contact lens ID, the log ID, the date and time of the log entry, the type of log entry, any additional notes, and the unique employee ID responsible for the log entry. These logs may track various activities or events related to contact lens usage and management, providing a historical record for analysis and reference purposes.

| Column Name | Data Type         | Description   | Extraction Method |
|-------------|-------------------|---|-------------------|
| acctid      | int               | The acctid column represents the unique identifier for each patient in the database.  | CSV               |
| fpid        | int               | The fpid column is a unique identifier for a specific feature or functionality associated with an account.                        | CSV               |
| logid       | int               | logid is a unique identifier for each record in the cl_log table.   | CSV               |
| day         | date default NULL | The day column represents the date on which the log entry was made with high certainty.   | CSV               |
| dtime       | time default NULL | The dtime column stores the time of an event or action that occurred in the application.  | CSV               |
| type        | tinyint           | The type column indicates the specific type of action or event recorded in the log.   | CSV               |
| notes       | varchar           | The notes column is a text field that allows for the entry of additional information or comments related to a specific log entry. | CSV               |
| empid       | int               | The empid column is a unique employee ID from the 'employees' table.  | CSV               |

## Frame Page Log - "fp\_log" CSV Export

The fp\_log table is used to track and record logs of activities related to the Frame Page feature in an EHR software. It contains information such as the unique patient ID, unique frame page ID, log ID, date, time, type of activity, notes, and the unique employee ID. This table allows for efficient tracking and management of frame page logs within the EHR system.

| Column Name | Data Type               | Description  | Extraction Method |
|-------------|-------------------------|--|-------------------|
| acctid      | int                     | The acctid column is the unique identifier for the account associated with the log entry. It represents the account ID from the 'accounts' table.          | CSV               |
| fpid        | int                     | The fpid column represents the unique ID associated with a specific feature or functionality in the system.  | CSV               |
| logid       | int                     | The logid column is an auto-incrementing numeric identifier that uniquely identifies each log entry in the fp_log table.                                   | CSV               |
| day         | date<br>default<br>NULL | The day column represents the specific date when the log entry was recorded.   | CSV               |
| dtime       | time<br>default<br>NULL | The dtime column represents the time when an event or action occurred. It is a specific time value, indicating the exact moment when the event took place. | CSV               |
| type        | tinyint                 | The type column in the fp_log table represents the type of log entry.  | CSV               |
| notes       | varchar                 | The notes column contains additional information or comments related to the log entry.   | CSV               |
| empid       | int                     | The empid column is a reference to the unique employee ID from the 'employees' table.  | CSV               |

## Transaction Data - "trans\_data" CSV Export

The trans\_data table is used to store transaction data related to invoices in an EHR software. It includes information such as the patient balance, insurance balance, insurance ID, billing code, optional item ID, and XML data. The table allows for multiple transactions to be associated with an invoice, with each transaction having its own unique transaction ID. This table is used for tracking and managing financial transactions within the EHR system, such as payments, adjustments, and balance updates.

| Column Name | Data Type | Description   | Extraction Method         |
|-------------|-----------|---|---------------------------|
| transid     | int       | The transid column is a unique identifier for each transaction in the trans_data table.                                     | CSV                       |
| invoiceid   | int       | The invoiceid column is a unique identifier for each invoice in the trans_data table.                                       | CSV                       |
| pat_bal     | bigint    | The pat_bal column represents the balance amount owed by the patient for a specific transaction.                            | CSV                       |
| ins_bal     | bigint    | The ins_bal column represents the outstanding balance of an insurance claim associated with an invoice.                     | CSV                       |
| insid       | int       | The insid column is an optional foreign key that references the unique ID of an insurance company in the 'insurance' table. | CSV                       |
| bc          | varchar   | The 'bc' column is a nullable varchar column that stores the billing code associated with the transaction.                  | CSV                       |
| optiid      | int       | The optiid column is a reference to the unique ID of an optional item from the 'optional_items' table.                      | CSV                       |
| xml         | text      | The xml column stores the XML data associated with a transaction.   | CSV + XML Deserialization |
| type        | tinyint   | The type column represents the type of transaction that occurred.   | CSV                       |

## trans\_data table - xml column Custom XML Extraction

| Name                              | Description  | Field | Data Type      | Serialization Type | Serialized Type |
|-----------------------------------|--|-------|----------------|--------------------|-----------------|
| Original Transaction Table Number | The Original Transaction Table Number custom XML field is used to store the table number of the original transaction in the EHR software. It is used for reference or tracking purposes within the software.   | ottn  | Integer 64-Bit |                    |                 |
| Original Transaction ID           | The Original Transaction ID custom XML field is used to store the unique identifier of the original transaction in the EHR software. It is used for tracking and referencing the original transaction for administrative or auditing purposes.   | oti   | Integer 64-Bit |                    |                 |
| Description                       | The Description custom XML field in the trans_data table is used to store a description or additional information about a specific transaction or procedure in the EHR software.   | a     | String         |                    |                 |
| Procedure Code                    | The "Procedure Code" custom XML field in the trans_data table is used to store the code that identifies a specific medical procedure or service performed on a patient. This code is commonly used for billing and reimbursement purposes, and helps to standardize the documentation of procedures in electronic health record (EHR) systems. | b     | String         |                    |                 |
| Discount Amount                   | The Discount Amount custom XML field in the trans_data table is used to store a monetary value as a 64-bit integer. It represents the amount of discount applied to a transaction in the EHR software.   | d     | Integer 64-Bit |                    |                 |
| Copay Amount                      | The "Copay Amount" custom XML field in the trans_data table is used to store the amount of copayment for a specific transaction. It is a 64-bit integer representing a monetary value.   | h     | Integer 64-Bit |                    |                 |

|                       |  |                 |                   |  |  |
|-----------------------|--|-----------------|-------------------|--|--|
| Total Amount          | The "Total Amount" custom XML field in the trans_data table is used to store the total amount of a transaction in an electronic health record (EHR) software. It is represented as a 64-bit integer to accurately capture and store the monetary value.  | g               | Integer<br>64-Bit |  |  |
| Quantity              | The Quantity custom XML field in the trans_data table is used to store the quantity or number of a specific item or procedure related to a transaction in an Electronic Health Record (EHR) software.  | q               | Integer<br>32-Bit |  |  |
| Returned Quantity     | The Returned Quantity custom XML field is used to store the quantity of a particular item or service that has been returned or refunded in a transaction. It is used in the context of managing inventory or tracking the quantity of items that have been refunded or voided in the EHR software. | rq              | Integer<br>32-Bit |  |  |
| Health Link ID        | The Health Link ID custom XML field is used to store the unique identifier of a specific health record or link within an EHR software.   | hlinkid         | String            |  |  |
| Links to Diag Code #1 | The "Links to Diag Code #1" custom XML field in the trans_data table is used to store the index of the diagnosis in the invoice that the transaction data is linked to.  | k               | String            |  |  |
| Links to Diag Code #2 | The Links to Diag Code #2 custom XML field is used to link the second diagnosis code in the transaction data to the corresponding diagnosis in the invoice.  | l               | String            |  |  |
| Links to Diag Code #3 | The Links to Diag Code #3 custom XML field in the trans_data table is used to store the diagnosis code that the transaction data is linked to.   | m               | String            |  |  |
| Links to Diag Code #4 | The Links to Diag Code #4 custom XML field is used to indicate the index of the diagnosis in the invoice that this transaction data links to.  | n               | String            |  |  |
| Links to Diag Code #5 | The Links to Diag Code #5 through #12 custom XML field is used to store the indexes of   | "d5"<br>through | String            |  |  |

|                         |  |         |                |  |  |
|-------------------------|--|---------|----------------|--|--|
| through #12             | diagnoses in the invoice that this transaction data links to.  | "d12"   |                |  |  |
| External HLink ID       | The "External HLink ID" custom XML field is an identifier that links the transaction data with an external health link. It is used to reference an external system or database that contains additional information or details related to the transaction. | hlinkid | Integer 64-Bit |  |  |
| Diagnosis Modifier Code | The Diagnosis Modifier Code custom XML field is used to store specific modifier codes related to the diagnosis of a patient.   |         | String         |  |  |



## Meaningful Use Measure - "mu\_measures" CSV Export

The mu\_measures table is used to store Meaningful Use Measures related to an EHR software. It contains information about the type of measure, the date and time it was recorded, the employee who recorded it, and the relevant patient IDs. This table may be used to track and analyze meaningful use measures for reporting and compliance purposes.

| Column Name | Data Type  | Description  | Extraction Method |
|-------------|--|--|-------------------|
| id          | int  | The id column is an auto-incrementing integer value that serves as the primary key for the mu_measures table. It uniquely identifies each record in the table. | CSV               |
| type        | int  | The type column represents the type of measure recorded in the mu_measures table.  | CSV               |
| time        | datetime NOT NULL<br>default '0000-00-00 00:00:00' | The time column represents the date and time when the measurement was recorded with complete accuracy.   | CSV               |
| empid       | int  | The empid column in the mu_measures table refers to the unique employee ID from the 'employees' table.   | CSV               |
| acctids     | text NOT NULL                                      | The acctids column contains a comma-separated list of unique account IDs associated with the measure.  | CSV               |

## VSP Claim - "vsp\_claims" CSV Export

The vsp\_claims table is used to store information related to VSP (Vision Service Plan) claims made by patients. It includes various fields such as the ID of the invoice associated with the claim, diagnostic codes, details about the type of exam or service provided, information about lenses and frames, contact lens details, special instructions, and additional information related to insurance coverage and other parties involved in the claim. The table also includes columns to track the status of the claim, such as whether it has been processed or calculated. It is used in conjunction with an EHR (Electronic Health Record) software to manage and process vision care claims for patients.

| Column Name     | Data Type | Description  | Extraction Method |
|-----------------|-----------|--|-------------------|
| id              | int       | The id column is the primary key of the vsp_claims table. It is an auto-incrementing integer that uniquely identifies each row in the table.         | CSV               |
| otherHealthPlan | tinyint   | The otherHealthPlan column indicates whether the patient has another health insurance plan in addition to the one associated with this claim.        | CSV               |
| secondAuthNum   | varchar   | The secondAuthNum column stores the authorization number associated with a secondary authorization for the claim.                                    | CSV               |
| invoice         | int       | The invoice column is a unique identifier for each invoice in the database. It is a foreign key referencing the invoice ID from the 'invoice' table. | CSV               |
| lab             | varchar   | The lab column specifies the name or code for the laboratory that will be processing the claim.  | CSV               |
| diagCode1       | varchar   | The diagCode1 column stores the primary diagnosis code for a claim.  | CSV               |
| diagCode2       | varchar   | The diagCode2 column represents the second diagnosis code associated with a claim.   | CSV               |
| diagCode3       | varchar   | The diagCode3 column contains the third diagnostic code associated with the claim.   | CSV               |

|              |                          |  |     |
|--------------|--------------------------|--|-----|
| diagCode4    | varchar                  | The diagCode4 column stores the fourth diagnosis code associated with a medical claim.   | CSV |
| examService  | tinyint                  | The examService column indicates whether or not an exam service was provided.  | CSV |
| examType     | varchar                  | The examType column in the vsp_claims table stores the type of examination performed on the patient.   | CSV |
| examCPT      | varchar                  | The examCPT column contains the CPT code associated with the exam service provided.  | CSV |
| refraction   | tinyint                  | The refraction column is a boolean indicator that represents whether a refraction service was performed for the claim.                             | CSV |
| dilation     | tinyint                  | The dilation column indicates whether the patient's pupils were dilated during the examination.  | CSV |
| amountPaid   | varchar                  | The amountPaid column stores the total amount of money paid for the claim.   | CSV |
| medcompDate  | datetime<br>default NULL | The medcompDate column stores the date and time when the medical claim was completed.  | CSV |
| acctid       | int                      | The acctid column is the unique patient ID from the 'patients' table.  | CSV |
| authNumber   | varchar                  | The authNumber column is a unique identifier for an authorization number assigned to a claim.  | CSV |
| lensMaterial | varchar                  | The lensMaterial column in the vsp_claims table describes the material used for the lenses in a claim.   | CSV |
| lensStyle    | varchar                  | The lensStyle column in the vsp_claims table stores the specific style or design of the lenses that were ordered or provided as part of the claim. | CSV |
| lensOther    | varchar                  | The lensOther column stores additional information or details about the lens that is not covered by the other lens-related columns in the table.   | CSV |
| edge         | varchar                  | The edge column indicates the type of edge that is present on the lens.  | CSV |
| bevel        | varchar                  | The bevel column is a varchar(10) column in the vsp_claims table. It stores information about the bevel of a lens.                                 | CSV |

|                |         |  |     |
|----------------|---------|--|-----|
| tintType       | varchar | The tintType column indicates the type of tint applied to the lenses of the eyewear.   | CSV |
| tintColor      | varchar | The tintColor column in the vsp_claims table stores the color of the tint applied to the lenses of the eyewear.  | CSV |
| tintOther      | varchar | The tintOther column is a varchar(45) column in the vsp_claims table of the database. It stores additional details or specifications about the type of tint used for the lenses. | CSV |
| tintSample     | varchar | The `tintSample` column is a varchar(10) column that stores the type or sample of tint used for the lens.  | CSV |
| tintPercent    | char    | The tintPercent column stores the percentage of tint applied to a lens.  | CSV |
| coatingAR      | varchar | The coatingAR column in the vsp_claims table represents whether or not the lenses have an anti-reflective coating.   | CSV |
| coatingSCR     | varchar | The coatingSCR column in the vsp_claims table represents whether or not the claim includes a scratch-resistant coating on the lenses.  | CSV |
| coatingUV      | varchar | The coatingUV column represents the existence of a UV coating on the lens.   | CSV |
| coatingMirror  | varchar | The coatingMirror column stores the information about whether or not the lens has a mirror coating.  | CSV |
| coatingGlass   | varchar | The coatingGlass column represents the type of coating applied to the lens surface, such as anti-glare coating.  | CSV |
| thickness      | varchar | The thickness column represents the thickness of a lens.   | CSV |
| thicknessValue | varchar | The thicknessValue column stores the value of the lens thickness for a particular claim.   | CSV |
| baseCurveRight | varchar | The baseCurveRight column stores the value for the base curve of the right lens in the prescription.   | CSV |
| baseCurveLeft  | varchar | The baseCurveLeft column in the vsp_claims table represents the base curve measurement of the left lens of the patient's glasses or contact lenses.                              | CSV |
| frameSource    | varchar | The frameSource column indicates the source from where the frame for the claim was obtained.   | CSV |

|              |         |  |     |
|--------------|---------|--|-----|
| manufacturer | varchar | The manufacturer column stores the name of the manufacturer of the product or item related to the claim.   | CSV |
| collection   | varchar | The `collection` column in the `vsp_claims` table represents the collection associated with the claim.   | CSV |
| frameName    | varchar | The frameName column stores the name of the frame selected for the eyewear.  | CSV |
| frameColor   | varchar | The frameColor column stores the color of the frame used in the eyewear.   | CSV |
| frameType    | varchar | The frameType column stores the type of frame selected for the eyeglasses or prescription sunglasses.  | CSV |
| frameShape   | varchar | The frameShape column stores the shape of the frame for eyeglasses.  | CSV |
| eye          | varchar | The 'eye' column denotes which eye is being referred to in the context of the claim. For example, it may specify whether the claim relates to the right eye, left eye, or both eyes.           | CSV |
| dbl          | varchar | dbl (abbreviation for "double" or "distance between lenses") is a column in the vsp_claims table that stores the measurement of the distance between the two lenses of a pair of glasses.      | CSV |
| temple       | varchar | The temple column contains the measurement of the length of the temple arms of a pair of glasses.  | CSV |
| aMeas        | varchar | The aMeas column represents the measurement of the 'A' dimension, which refers to a specific measurement related to the frame in the VSP claims table.   | CSV |
| bMeas        | varchar | The bMeas column represents the measurement of the bridge width on a frame for eyeglasses or sunglasses.   | CSV |
| edMeas       | varchar | The edMeas column in the vsp_claims table stores the measurement of the distance between the center of the pupil and the edge of the frame on the temporal side (outside edge) in millimeters. | CSV |
| specialInstr | varchar | The specialInstr column is a field that stores any special instructions or additional information related to the claim.  | CSV |

|                  |         |  |     |
|------------------|---------|--|-----|
| coveredContacts  | tinyint | The coveredContacts column indicates whether the claim includes coverage for contact lenses.   | CSV |
| clType           | varchar | The clType column in the vsp_claims table represents the type of contact lens being prescribed or dispensed for a patient.   | CSV |
| clService        | varchar | The 'clService' column indicates the type of service provided for contact lenses.  | CSV |
| supplyProgram    | varchar | The supplyProgram column in the vsp_claims table represents the type of supply program that is associated with the claim.  | CSV |
| clReason         | varchar | The clReason column represents the reason for the contact lens claim.  | CSV |
| priorAuthNum     | varchar | The priorAuthNum column is a varchar(45) column that stores the prior authorization number associated with the claim.  | CSV |
| lensService      | tinyint | The lensService column indicates whether the claim includes services related to lenses.  | CSV |
| frameService     | tinyint | The frameService column indicates if a frame was included as part of the claim.  | CSV |
| contactService   | tinyint | The 'contactService' column indicates whether the claim includes services related to contact lenses. It is a boolean value (0 or 1) where 0 represents that the claim does not include contact lens services and 1 represents that the claim includes contact lens services. | CSV |
| conditionRelated | tinyint | The 'conditionRelated' column indicates whether the claim is related to a specific medical condition.  | CSV |
| autoState        | char    | The 'autoState' column stores the two-letter abbreviation of the state where the auto-related condition or event occurred.   | CSV |
| repair           | tinyint | The repair column indicates whether the claim is for a repair service.   | CSV |
| repairReason     | varchar | The repairReason column contains the reason for the repair of the item being claimed.  | CSV |

|                  |  |  |     |
|------------------|--|--|-----|
| sameIllness      | tinyint                                      | The "sameIllness" column indicates whether the claim is related to the same illness as a previous claim.   | CSV |
| sameDate         | datetime<br>default NULL                     | The sameDate column represents the date when the same illness or condition related to the claim was first diagnosed or identified.   | CSV |
| unableToWork     | tinyint                                      | The unableToWork column indicates whether the patient is currently unable to work due to their medical condition. It is a boolean value, where 1 represents that the patient is unable to work and 0 represents that the patient is able to work.  | CSV |
| workStartDate    | datetime<br>default<br>'1000-01-01 00:00:00' | The workStartDate column indicates the date when the patient started or will start their work after a period of disability or inability to work.   | CSV |
| workEndDate      | datetime<br>default<br>'1000-01-01 00:00:00' | The workEndDate column represents the date when the work or employment-related activities ended for the patient. This column is used to track the end date of a patient's work period, which may be relevant for documenting disability claims or assessing the impact of an illness or injury on their ability to work. | CSV |
| disability       | varchar                                      | The disability column in the vsp_claims table indicates whether the patient is currently experiencing a disability.  | CSV |
| referring        | varchar                                      | The referring column stores the name of the healthcare provider who referred the patient for the service or treatment.   | CSV |
| referringNPI     | varchar                                      | The referringNPI column is a varchar(45) column in the vsp_claims table. It contains the National Provider Identifier (NPI) of the referring provider.   | CSV |
| hospital         | tinyint                                      | The 'hospital' column indicates whether the claim is associated with a hospital visit. It is a boolean value (0 or 1) where 1 represents a claim that is related to a hospital stay and 0 represents a claim that is not related to a hospital stay.   | CSV |
| hospitalFromDate | datetime<br>default<br>'1000-01-01           | The hospitalFromDate column represents the date when the patient was admitted to the hospital.   | CSV |

|                |   |   |     |
|----------------|---|---|-----|
|                | 00:00:00'                                       |   |     |
| hospitalToDate | datetime<br>default<br>'1000-01-01<br>00:00:00' | The hospitalToDate column represents the date when the hospitalization ended.   | CSV |
| related        | tinyint   | The 'id' column is a unique identifier for each record in the 'vsp_claims' table.   | CSV |
| relatedDate    | datetime<br>default<br>'1000-01-01<br>00:00:00' | The relatedDate column stores the date when the claim is related to another event or condition.   | CSV |
| medicaidCode   | varchar   | The medicaidCode column stores the Medicaid code associated with a claim.   | CSV |
| medicaidRefNum | varchar   | The medicaidRefNum column stores the Medicaid reference number associated with the claim.   | CSV |
| otherName      | varchar   | The otherName column is a varchar(45) column that stores the name of the another person, such as a family member or dependent, associated with the claim.   | CSV |
| otherSex       | char  | The otherSex column represents the sex or gender of a person other than the patient.  | CSV |
| otherGroupNum  | varchar   | The otherGroupNum column stores the group number associated with the insurance plan of a patient other than the primary insurance plan.   | CSV |
| otherPlanName  | varchar   | The otherPlanName column stores the name of another health insurance plan that the patient may have.  | CSV |
| otherDOB       | datetime<br>default NULL                        | The otherDOB column represents the date of birth for a person other than the patient.   | CSV |
| otherEmployer  | varchar   | The otherEmployer column indicates the name of the employer for a claim that is associated with a patient who has a secondary health plan.  | CSV |
| calculated     | tinyint   | The `calculated` column indicates whether the claim has been calculated or not. It is a boolean value where 1 represents that the claim has been calculated and 0 represents that it has not been calculated yet. | CSV |



|          |         |  |     |
|----------|---------|--|-----|
| lensType | varchar | The lensType column represents the type of lens used in the claim. | CSV |
|----------|---------|--|-----|

## VSP Authorization - "vsp\_authorizations" CSV Export

The vsp\_authorizations table contains VSP Authorizations, which are related to a specific patient and their vision insurance benefits. It includes information such as the authorization ID, member ID, patient name, group ID, benefit details, maximum allowable amount, deductible details, service grid information, and comments. The table also includes dates for the effective, expiration, and transaction dates of the authorization. The table is used to track and manage the authorization of vision services for patients within an EHR software system.

| Column Name      | Data Type | Description  | Extraction Method |
|------------------|-----------|--|-------------------|
| id               | int       | The 'id' column is an auto-incrementing primary key that uniquely identifies each record in the 'vsp_authorizations' table.                | CSV               |
| acctid           | int       | The acctid column is the unique patient ID from the 'patients' table.  | CSV               |
| authID           | varchar   | The authID column is a unique identifier for each authorization record in the table.   | CSV               |
| memberID         | varchar   | The memberID column stores a unique identifier for the member associated with the authorization.   | CSV               |
| patientName      | varchar   | The patientName column contains the name of the patient associated with the authorization.   | CSV               |
| groupID          | varchar   | The groupID column is a unique identifier for a group within the authorization.  | CSV               |
| groupName        | varchar   | The groupName column is a varchar type column that stores the name of the group associated with the authorization.                         | CSV               |
| tracksDependents | tinyint   | The `tracksDependents` column is a boolean value that indicates whether the authorization includes coverage for dependents of the patient. | CSV               |
| benefitName      | varchar   | The benefitName column contains the name of  | CSV               |

|                        |   |  |     |
|------------------------|---|--|-----|
|                        |   | the benefit associated with the authorization.   |     |
| benefitAllowanceAmount | varchar                                   | The benefitAllowanceAmount column stores the amount of allowance available for the specific benefit for a patient.                             | CSV |
| benefitRetailAmount    | varchar                                   | The benefitRetailAmount column stores the retail amount of the benefit provided for the patient.   | CSV |
| benefitAllowanceCode   | varchar                                   | The benefitAllowanceCode column is a code that represents the specific type or category of benefit allowance for a patient's authorization.    | CSV |
| maximumAllowableName   | varchar                                   | The maximumAllowableName column stores the name or description of the maximum allowable amount for a particular benefit or service.            | CSV |
| maximumAllowableType   | varchar                                   | The maximumAllowableType column specifies the type of maximum allowable amount for the benefit, such as per visit, per day, or per procedure.  | CSV |
| maximumAllowableAmount | varchar                                   | The maximumAllowableAmount column stores the maximum allowable amount for a specific benefit or service covered under the authorization.       | CSV |
| allowanceDescription   | varchar                                   | The allowanceDescription column is a varchar field that stores a brief description of the allowance provided by a benefit.                     | CSV |
| deductibleName         | varchar                                   | The deductibleName column is a text field that stores the name of the deductible associated with the authorization.                            | CSV |
| deductibleAmount       | varchar                                   | The `deductibleAmount` column represents the amount of deductible that needs to be paid by the patient before the insurance coverage kicks in. | CSV |
| deductibleDate         | datetime<br>default '1000-01-01 00:00:00' | The deductibleDate column represents the date when the deductible for the patient's insurance plan was recorded.                               | CSV |

|                       |          |   |     |
|-----------------------|----------|---|-----|
| serviceGrid           | varchar  | The `serviceGrid` column in the `vsp_authorizations` table stores the identifier for the service grid associated with the authorization.  | CSV |
| benefitCode           | varchar  | The benefitCode column is a varchar field that stores a code representing a specific benefit associated with the authorization.   | CSV |
| planCode              | varchar  | The planCode column is a field in the vsp_authorizations table that represents the code associated with the specific plan or insurance coverage for the authorization.                    | CSV |
| gridCode              | varchar  | The gridCode column is a varchar(45) column in the vsp_authorizations table. It holds the code associated with the service grid for the authorization.                                    | CSV |
| commentCode           | varchar  | The commentCode column stores a code that represents a specific comment related to the authorization.   | CSV |
| commentFlag           | varchar  | The commentFlag column indicates if there is a flag associated with the authorization record.   | CSV |
| patientRecordReport   | blob     | The patientRecordReport column stores a file that contains the report or records related to the patient's medical records or treatment history.   | CSV |
| patientCoverageReport | longblob | The patientCoverageReport column stores a longblob (binary large object) that contains a report or document detailing the patient's coverage information.                                 | CSV |
| patientHistoryReport  | blob     | The patientHistoryReport column stores the patient's history report, which contains information about past medical procedures, diagnoses, treatments, and other relevant medical history. | CSV |
| wellVisionSS          | blob     | The `wellVisionSS` column is a binary large object (blob) that stores the patient's well vision SS information.   | CSV |

|                   |   |   |     |
|-------------------|---|---|-----|
| groupComments     | varchar   | The groupComments column contains additional comments or notes related to the group authorization.                                      | CSV |
| effectiveDate     | datetime NOT NULL default '1000-01-01 00:00:00' | The effectiveDate column stores the date and time when the authorization becomes effective.   | CSV |
| expirationDate    | datetime NOT NULL default '1000-01-01 00:00:00' | The expirationDate column represents the date and time when the authorization expires.  | CSV |
| transactionDate   | datetime NOT NULL default '1000-01-01 00:00:00' | The transactionDate column stores the date and time when the authorization transaction was recorded in the database.                    | CSV |
| deleted           | tinyint   | The 'deleted' column indicates whether or not a record has been marked as deleted.  | CSV |
| deleteDate        | datetime default NULL                           | The deleteDate column stores the date and time when the authorization record was marked for deletion.                                   | CSV |
| groupStatus       | tinyint   | The groupStatus column indicates the status of a group within the VSP authorizations table.   | CSV |
| serviceGridStatus | varchar   | The serviceGridStatus column indicates the status of the service grid associated with the authorization.                                | CSV |
| submitted         | tinyint   | The submitted column indicates whether the authorization has been submitted.  | CSV |
| submitDate        | datetime default NULL                           | The submitDate column in the vsp_authorizations table represents the date and time when the authorization was submitted for processing. | CSV |

## VSP Eligibility - "vsp\_eligibility" CSV Export

The vsp\_eligibility table is used for storing information about VSP eligibility for patients. It contains details such as the member ID, member name, patient name, patient date of birth, patient relation to the member, group ID, group name, and other relevant information. This table is used in conjunction with an Electronic Health Records (EHR) software to manage and track VSP eligibility for patients.

| Column Name      | Data Type                                       | Description   | Extraction Method |
|------------------|---|---|-------------------|
| id               | int   | The "id" column is an auto-incrementing identifier for each row in the "vsp_eligibility" table.     | CSV               |
| memberID         | varchar   | The memberID column stores a unique identifier for each member in the eligibility table.            | CSV               |
| memberName       | varchar   | The memberName column is a non-null varchar(45) column that stores the name of a member.            | CSV               |
| patientName      | varchar   | The patientName column stores the name of the patient associated with the eligibility information.  | CSV               |
| patientDOB       | datetime NOT NULL default '1000-01-01 00:00:00' | The patientDOB column stores the date of birth of the patient as a datetime value.                  | CSV               |
| patientRelation  | varchar   | The patientRelation column stores the relationship between the member and the patient.              | CSV               |
| groupID          | varchar   | The groupID column is a unique identifier for a group in the VSP eligibility table.                 | CSV               |
| groupName        | varchar   | The groupName column contains the name of the group that the member belongs to.                     | CSV               |
| tracksDependents | tinyint   | The tracksDependents column indicates whether the group tracks dependents for eligibility purposes. | CSV               |
| groupStatus      | tinyint   | The groupStatus column indicates the current  | CSV               |

|                       |   |   |     |
|-----------------------|---|---|-----|
|                       |   | status of the group in the eligibility system. It is a boolean value, where 1 represents an active group and 0 represents an inactive group.  |     |
| wellVisionPlanSummary | blob  | The wellVisionPlanSummary column contains a summary of the well vision plan for the member and their dependents. It may include information such as coverage details, benefits, and claims history. | CSV |
| transactionDate       | datetime NOT NULL default '1000-01-01 00:00:00' | The transactionDate column represents the date and time when the eligibility transaction was recorded in the vsp_eligibility table.   | CSV |
| acctid                | int   | The acctid column is a unique identifier for a patient in the database table.   | CSV |

## VSP Claim Response - "vsp\_claim\_response" CSV Export

The vsp\_claim\_response table is used to store the responses related to VSP claims in an EHR software. It contains information such as the authorization number for the claim, the type and status of the order, any relevant messages, and the doctor service report and packing slip report associated with the claim. The transaction date indicates when the response was recorded.

| Column Name         | Data Type                                       | Description  | Extraction Method |
|---------------------|---|--|-------------------|
| id                  | int   | The id column is a unique identifier for each row in the vsp_claim_response table.   | CSV               |
| authNumber          | varchar   | The authNumber column is a unique identifier for each claim response in the database.  | CSV               |
| orderType           | varchar   | The orderType column represents the type of order associated with a claim response.  | CSV               |
| orderStatus         | varchar   | The orderStatus column stores the current status of the order.   | CSV               |
| message             | varchar   | The message column stores a brief description or note related to the claim response.   | CSV               |
| doctorServiceReport | blob  | The doctorServiceReport column stores a binary large object (BLOB) which contains the report generated by the doctor for a claim response. | CSV               |
| packingSlipReport   | blob  | The packingSlipReport column stores a binary large object (blob) representing the packing slip report associated with a claim response.    | CSV               |
| transactionDate     | datetime NOT NULL default '1000-01-01 00:00:00' | The transactionDate column is a datetime field that stores the date and time when the claim response transaction occurred.                 | CSV               |



## VSP Eligibility Benefit - "vsp\_eligibility\_benefits" CSV Export

The vsp\_eligibility\_benefits table is used to store VSP eligibility benefits information. It contains various columns to store details related to the benefits provided by VSP, such as the name of the benefit, the allowance amount, the frame retail price, the maximum allowable amount, the type of allowance, the deductible amount, the fee rule code, and the program ID. This table is used in conjunction with an Electronic Health Record (EHR) software to track and manage eligibility and benefits information for patients.

| Column Name            | Data Type | Description  | Extraction Method |
|------------------------|-----------|--|-------------------|
| id                     | int       | The 'id' column is a primary key column that uniquely identifies each record in the 'vsp_eligibility_benefits' table.                                      | CSV               |
| elig_id                | int       | The elig_id column is an integer that uniquely identifies an eligibility record in the vsp_eligibility_benefits table. It is the primary key of the table. | CSV               |
| benefitName            | varchar   | The benefitName column contains the name of the eligibility benefit for a specific record in the table.  | CSV               |
| benefitAllowanceAmount | varchar   | The benefitAllowanceAmount column stores the amount of allowance allotted for a specific benefit in the VSP eligibility benefits table.                    | CSV               |
| benefitAllowanceCode   | varchar   | The benefitAllowanceCode column stores a code that represents the type of benefit allowance provided.  | CSV               |
| frameRetail            | varchar   | The frameRetail column stores the retail price of a frame for the eligibility benefits.  | CSV               |
| maximumAllowableName   | varchar   | The maximumAllowableName column stores the name or description of the maximum allowable benefit for a particular eligibility.                              | CSV               |
| maximumAllowableType   | char      | The maximumAllowableType column specifies the type of maximum allowable amount for the   | CSV               |

|                         |   |   |     |
|-------------------------|---|---|-----|
|                         |   | benefit.  |     |
| maximumAllowableAmount  | varchar                                   | The maximumAllowableAmount column specifies the maximum allowable amount for a particular benefit in the VSP eligibility benefits table.                                | CSV |
| allowanceTypeDescriptor | varchar                                   | The allowanceTypeDescriptor column provides a descriptor or description for the type of allowance provided for the eligibility benefit.                                 | CSV |
| deductibleName          | varchar                                   | The deductibleName column contains the name or description of the deductible associated with the eligibility benefit.   | CSV |
| deductibleAmount        | varchar                                   | The deductibleAmount column stores the amount of money that must be paid out-of-pocket by the patient before the insurance coverage begins.                             | CSV |
| deductibleDate          | datetime<br>default '1000-01-01 00:00:00' | The deductibleDate column stores the date when the deductible for a benefit is applied.   | CSV |
| feeRuleCode             | varchar                                   | The feeRuleCode column stores a code that indicates the specific fee rule associated with the eligibility benefit.  | CSV |
| programID               | varchar                                   | The programID column is a varchar(45) column in the vsp_eligibility_benefits table. It stores the program identification code associated with the eligibility benefits. | CSV |

## HL7 Record - "hl7\_record" CSV Export

The hl7\_record table is used to store HL7 Records in an EHR software system. It contains information about the record, such as the account ID, location ID, date of creation, and type of record. The table also tracks the processing status of the record, including whether it has been processed and if there were any errors during processing. Additionally, the table stores the HL7 message XML, as well as any associated information and message control IDs.

| Column Name            | Data Type                                       | Description  | Extraction Method |
|------------------------|---|--|-------------------|
| id                     | bigint  | The `id` column is a unique identifier for each record in the `hl7_record` table. It is an auto-incrementing integer value that is assigned to each record when it is inserted into the table. | CSV               |
| acctid                 | int   | The `acctid` column is the unique patient ID from the 'patients' table.  | CSV               |
| locid                  | int   | The locid column in the hl7_record table is a foreign key that references the unique location ID from the locations table.   | CSV               |
| insert_guid            | varchar   | The insert_guid column is a unique identifier for each record that is inserted into the hl7_record table.  | CSV               |
| date                   | datetime NOT NULL default '0000-00-00 00:00:00' | The date column represents the date and time when the HL7 record was created.  | CSV               |
| created_datetime       | datetime NOT NULL default '0000-00-00 00:00:00' | The created_datetime column contains the date and time when the record was initially created.  | CSV               |
| last_modified_datetime | datetime NOT NULL default '0000-00-00 00:00:00' | The last_modified_datetime column stores the date and time when the record was last modified.  | CSV               |

|                      |         |   |                              |
|----------------------|---------|---|------------------------------|
| type                 | int     | The type column is an integer that represents the type of HL7 record.   | CSV                          |
| hie_type             | int     | The hie_type column represents the type of healthcare information exchange system that the HL7 record belongs to.                                 | CSV                          |
| processed            | tinyint | The processed column indicates whether the HL7 record has been processed or not.  | CSV                          |
| processing_error     | tinyint | The processing_error column indicates whether there was an error during the processing of the HL7 record.   | CSV                          |
| processing_error_msg | text    | The processing_error_msg column stores the error message associated with any processing error that occurred during the handling of an HL7 record. | CSV                          |
| patient_id           | varchar | The patient_id column stores the unique identifier assigned to each patient.  | CSV                          |
| hl7_message_xml      | text    | The hl7_message_xml column stores the HL7 message in XML format.  | CSV + XML<br>Deserialization |
| status_list          | text    | The status_list column contains the list of statuses associated with the HL7 record.  | CSV                          |
| assoc_info_list      | text    | The assoc_info_list column stores a list of associated information related to the HL7 record.   | CSV                          |
| msg_ctrl_id_list     | text    | The msg_ctrl_id_list column contains a list of message control IDs associated with a particular HL7 record.                                       | CSV                          |
| xml                  | text    | The xml column contains the HL7 message in XML format.  | CSV + XML<br>Deserialization |

## hl7\_record Type

The hl7\_record Type is used to store and manage HL7 records within an EHR software system. It represents a single HL7 message received or sent by the EHR system, containing patient information, medical data, and other related information. It is used for tracking and processing HL7 messages, allowing for seamless integration and communication between different healthcare systems and providers. A hl7\_record is serialized as XML in the xml column in the hl7\_record table.

| Member Name | Type       | Description  |
|-------------|------------|--|
|             | hl7_record | Unfortunately, without more information or context provided, it is impossible to give a specific and confident description of the member of the hl7_record Type. |

## Frame for VSP - "frame\_for\_vsp" CSV Export

The frame\_for\_vsp table is used to store information about frames for Vision Service Providers (VSPs). It includes columns for the unique patient ID, which is obtained from the 'patients' table, and the frame ID, which is obtained from the 'frames' table. This table is used in conjunction with an Electronic Health Record (EHR) software to track and manage frames specifically for VSPs.

| Column Name | Data Type | Description   | Extraction Method |
|-------------|-----------|---|-------------------|
| ffv         | int       | The ffv column is a unique identifier for each entry in the table frame_for_vsp.                      | CSV               |
| acctid      | int       | The acctid column is the unique patient ID from the 'patients' table.                                 | CSV               |
| fpid        | int       | The fpid column is a foreign key that links the frame_for_vsp table to another table in the database. | CSV               |

## Patient Photo Info - "pat\_photo\_info" CSV Export

The pat\_photo\_info table is used to store Patient Photo Infos in an EHR software. It contains information such as the patient's ID, the date the photo was taken, the file type of the photo, the filename, a description of the photo, the location where the photo is stored, and other miscellaneous data. This table is used to store and retrieve patient photos within the EHR system.

| Column Name   | Data Type                | Description   | Extraction Method |
|---------------|--------------------------|---|-------------------|
| fid           | int                      | The fid column is a unique identifier for each record in the pat_photo_info table.  | CSV               |
| acctid        | int                      | The acctid column is the unique patient ID associated with the photo.   | CSV               |
| misc          | tinyint                  | The misc column in the pat_photo_info table is a tinyint column that stores a numerical value representing additional miscellaneous information related to a patient's photo. | CSV               |
| tbl           | int                      | The 'tbl' column represents the reference to another table within the database.   | CSV               |
| date          | datetime<br>default NULL | The date column stores the date and time at which the photo was uploaded or added to the database.  | CSV               |
| file_type     | varchar                  | The file_type column stores the type or format of the file associated with the photo entry, such as jpeg, png, or gif.  | CSV               |
| filename      | varchar                  | The filename column contains the name of the file associated with the photo.  | CSV               |
| description   | varchar                  | The description column stores a short text that provides additional details or information about the photo.   | CSV               |
| storelocation | tinyint                  | The storelocation column indicates the storage location of the file associated with the photo.  | CSV               |
| location      | varchar                  | The location column stores the location of the stored file or photo.  | CSV               |

## Patient Insurance Card - "pat\_ins\_card" CSV Export

The pat\_ins\_card table contains Patient Insurance Cards. Each insurance card is associated with a unique patient (identified by the acctid). The table includes information such as the card's ID (id), whether it is a primary or secondary card (fb), and an optional photo of the card (photo). This table is used in an Electronic Health Record (EHR) software to store and manage patients' insurance card information.

| Column Name | Data Type | Description   | Extraction Method |
|-------------|-----------|---|-------------------|
| acctid      | int       | The acctid column is the unique patient ID from the 'patients' table.   | CSV               |
| id          | tinyint   | The 'id' column is a unique identifier for each record in the 'pat_ins_card' table.   | CSV               |
| fb          | tinyint   | The fb column represents the status of the patient's Facebook account.  | CSV               |
| photo       | longblob  | The photo column stores a binary large object (BLOB) that represents an image or photograph associated with a patient's insurance card. | CSV               |



## Spectacle RX Notes - "sprx\_notes" CSV Export

The sprx\_notes table is used to store Spectacle RX Notes in an Electronic Health Record (EHR) software. It contains records for each patient, identified by their unique patient ID. Each record includes the medical record date, which indicates the date of the spectacle RX note. The XML column stores the actual notes, which may include information about the patient's prescription for eyeglasses or contact lenses. This information is useful for optometrists or ophthalmologists in providing and documenting eye care services.

| Column Name         | Data Type                             | Description  | Extraction Method            |
|---------------------|---------------------------------------|--|------------------------------|
| acctid              | int                                   | The 'acctid' column is the unique identifier for each patient in the database table.   | CSV                          |
| medical_record_date | date NOT NULL<br>default '1000-01-01' | The medical_record_date column is a date value that represents the date of a medical record entry.                                   | CSV                          |
| xml                 | mediumtext                            | The xml column stores the medical notes in a structured format, allowing for efficient storage and retrieval of patient information. | CSV + XML<br>Deserialization |

## Routing Slip - "rslip" CSV Export

The rslip table is used to store routing slip information related to patient appointments and visits within an EHR software. Each routing slip is associated with a specific patient, identified by the unique 'acctid'. The 'day' column stores the date of the appointment or visit. The 'open' column indicates whether the routing slip is currently open or closed. The 'bill\_codes' column stores any relevant billing codes associated with the appointment or visit. The 'diag\_codes' column stores any relevant diagnostic codes. The 'notes' column allows for additional comments or information. The 'invoiceid' column links the routing slip to a specific invoice, if applicable. The 'empid' column stores the unique ID of the employee associated with the routing slip. The 'optiid' column stores the unique ID of the optional item associated with the routing slip.

| Column Name | Data Type                             | Description  | Extraction Method |
|-------------|---------------------------------------|--|-------------------|
| acctid      | int                                   | The acctid column is the unique patient ID from the 'patients' table.  | CSV               |
| rslipid     | int                                   | The rslipid column is a unique identifier for each row in the rslip table.   | CSV               |
| day         | date NOT NULL<br>default '0000-00-00' | The day column represents the specific date when the record in the rslip table was created.                            | CSV               |
| open        | tinyint                               | The 'open' column indicates whether the Rslip is currently open or closed.   | CSV               |
| bill_codes  | text                                  | The bill_codes column stores the codes associated with the billing transactions for each account and service provided. | CSV               |
| diag_codes  | text                                  | The diag_codes column stores the diagnostic codes associated with a particular revenue slip.                           | CSV               |
| notes       | text                                  | The 'notes' column contains additional information or comments related to the medical record slip.                     | CSV               |
| invoiceid   | int                                   | The invoiceid column contains the unique ID of the invoice associated with the record in the rslip table.              | CSV               |

|        |     |  |     |
|--------|-----|--|-----|
| empid  | int | The empid column is the unique employee ID of the employee associated with the record. | CSV |
| optiid | int | The optiid column uniquely identifies an option item within the system.                | CSV |

## Medical Image Data - "med\_image\_data" CSV Export

The med\_image\_data table stores medical image data. It is used to store images such as X-rays, MRIs, or CT scans that are associated with patient records in an electronic health record (EHR) system. The table has a unique identifier (fid) for each image and a data column to store the actual image data in the form of a longblob. This table allows for the storage and retrieval of medical images within the EHR software.

| Column Name | Data Type | Description  | Extraction Method            |
|-------------|-----------|--|------------------------------|
| fid         | int       | The fid column is a unique identifier for each record in the med_image_data table. | CSV                          |
| data        | longblob  | The data column stores binary image data.  | CSV + Binary Deserialization |

## Patient File Data - "pat\_file\_data" CSV Export

The pat\_file\_data table contains Patient File Data for an Electronic Health Record (EHR) software. It is used to store the actual data files associated with each patient. Each row in the table represents a specific patient file and includes the file ID and the data itself stored in a longblob format. This table is used for storing various types of patient data files such as lab results, medical images, scanned documents, or other relevant files.

| Column Name | Data Type | Description  | Extraction Method            |
|-------------|-----------|--|------------------------------|
| fid         | int       | The fid column is a unique identifier for each record in the pat_file_data table.  | CSV                          |
| data        | longblob  | The data column in the pat_file_data table stores longblob data, which represents binary large objects such as images, documents, or other types of unstructured data. | CSV + Binary Deserialization |

## Patient Photo Data - "pat\_photo\_data" CSV Export

The pat\_photo\_data table is used to store Patient Photo Data associated with an EHR software. It contains a unique identifier for the patient (fid) and a blob field (data) to store the patient's photo data.

| Column Name | Data Type | Description  | Extraction Method            |
|-------------|-----------|--|------------------------------|
| fid         | int       | The fid column is a unique identifier for each record in the pat_photo_data table.             | CSV                          |
| data        | longblob  | The data column in the pat_photo_data table stores the binary image data of a patient's photo. | CSV + Binary Deserialization |

## Insurance Card Data - "ins\_card\_data" CSV Export

The ins\_card\_data table stores insurance card data associated with an EHR software. It contains information such as insurance provider, policy number, and plan details for patients. The fid column serves as the primary key for this table.

| Column Name | Data Type | Description  | Extraction Method            |
|-------------|-----------|--|------------------------------|
| fid         | int       | The fid column is a unique identifier for each row in the ins_card_data table.                               | CSV                          |
| data        | longblob  | The 'data' column contains binary data that is stored as a BLOB (binary large object) in the database table. | CSV + Binary Deserialization |

## Medical Image - "med\_image\_info" CSV Export

The med\_image\_info table is used to store information about medical images in an Electronic Health Record (EHR) software. It contains columns to store the patient ID, the type of medical image file, the name of the file, a description of the image, the location of the file, and other miscellaneous details. This table is used to manage and retrieve medical images for patients within the EHR system.

| Column Name   | Data Type                | Description   | Extraction Method |
|---------------|--------------------------|---|-------------------|
| fid           | int                      | The fid column is a unique identifier for each record in the med_image_info table.                                | CSV               |
| acctid        | int                      | The acctid column in the med_image_info table is a unique patient ID from the patients table.                     | CSV               |
| misc          | tinyint                  | The misc column in the med_image_info table represents additional miscellaneous information related to the image. | CSV               |
| tbl           | int                      | The `tbl` column is an optional integer field that may hold a value indicating a specific table in the database.  | CSV               |
| date          | datetime<br>default NULL | The date column stores the date and time when the image information was recorded.                                 | CSV               |
| file_type     | varchar                  | The file_type column stores the type of file associated with a medical image, such as JPEG, PNG, or TIFF.         | CSV               |
| filename      | varchar                  | The filename column stores the name of the file associated with the medical image.                                | CSV               |
| description   | text                     | The description column contains text describing the image file.   | CSV               |
| storelocation | tinyint                  | The storelocation column indicates the storage location of the medical image file.                                | CSV               |
| location      | varchar                  | The location column stores the specific location information associated with a medical image file.                | CSV               |



## Patient File - "pat\_file" CSV Export

The pat\_file table is used to store patient files in an electronic health record (EHR) software system. Each file is associated with a specific patient and is identified by a unique file ID (fid). The table includes columns such as acctid, which represents the unique patient ID, filename, description, date, and file\_type, which specify the details of the file. Additionally, the location column stores the physical location of the file, and the misc column is used for any miscellaneous information. The table also includes columns for identifying the patient's education resources and the employee and location associated with the file. Overall, the pat\_file table provides a repository for managing and accessing patient files within the EHR system.

| Column Name   | Data Type                   | Description  | Extraction Method |
|---------------|-----------------------------|--|-------------------|
| fid           | int                         | The fid column is an auto-incremented identifier for each record in the pat_file table. It is a unique numeric value assigned to each file entry in the table. | CSV               |
| acctid        | int                         | The acctid column is the unique patient ID associated with the file.   | CSV               |
| filename      | varchar                     | The filename column stores the name of the file associated with a patient record.  | CSV               |
| description   | varchar                     | The description column is used to store a brief explanation or summary of the file.  | CSV               |
| date          | datetime<br>default<br>NULL | The date column captures the date and time when the file was uploaded or added to the database table.  | CSV               |
| tbl           | int                         | The tbl column is an integer column that stores a reference to another table in the database.  | CSV               |
| file_type     | varchar                     | The file_type column stores the type of file that is being uploaded or stored in the database.   | CSV               |
| storelocation | tinyint                     | The storelocation column is used to store the location or destination of the file.   | CSV               |

|                             |                             |  |     |
|-----------------------------|-----------------------------|--|-----|
| location                    | text                        | The location column contains the specific location or address associated with the file.  | CSV |
| misc                        | int                         | The misc column is an integer column that is used for miscellaneous purposes and may hold various data values depending on the context or specific use case.           | CSV |
| ident_pat_edu_rsrc          | tinyint                     | ident_pat_edu_rsrc is a flag column that indicates whether the patient has been identified as an educational resource.   | CSV |
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column stores the date and time when the patient's educational resource related to patient identification was identified and recorded. | CSV |
| locid                       | int                         | The 'locid' column represents the unique identifier for the location associated with the file.   | CSV |
| empid                       | int                         | The empid column in the pat_file table represents the unique employee ID from the employees table.   | CSV |

## HCFA Print - "hcfa\_print" CSV Export

The hcfa\_print table contains records of HCFA prints. These prints are related to the billing process in an EHR software. The table includes information such as the invoiceid, which is the unique identifier for an invoice, insid which is the unique identifier for an insurance company, print\_num which is a unique identifier for each print, day which represents the date and time of the print, ptype which could indicate the type of print (e.g. HCFA form), batchid which could be used for grouping the prints, notes which may contain additional information about the print, and acctid which is the unique patient ID from the patients table. Overall, the table seems to be used for tracking and managing the printing of HCFA forms for billing purposes within the EHR software.

| Column Name | Data Type                | Description   | Extraction Method |
|-------------|--------------------------|---|-------------------|
| invoiceid   | int                      | The invoiceid column is a unique identifier for each invoice in the hcfa_print table.   | CSV               |
| insid       | int                      | The insid column is the unique insurance ID from the insurance table.   | CSV               |
| print_num   | int                      | The print_num column is an automatically incrementing integer that uniquely identifies each printed document in the hcfa_print table. | CSV               |
| day         | datetime<br>default NULL | The day column represents the date and time when the invoice was printed.   | CSV               |
| ptype       | tinyint                  | The ptype column represents the type of payment for a particular invoice.   | CSV               |
| batchid     | int                      | The batchid column is a numeric identifier that represents the batch to which an invoice belongs.                                     | CSV               |
| notes       | text                     | The notes column is a text field that allows for additional information or comments related to the HCFA print.                        | CSV               |
| acctid      | int                      | The acctid column is the unique patient ID from the 'patients' table.   | CSV               |

## HCFA Data - "hcfa\_data" CSV Export

The hcfa\_data table contains data related to HCFA, which stands for Health Care Financing Administration. This table stores information related to healthcare billing and insurance claims. It may contain details about the patient, insurance provider, dates of service, and a formatted XML file that contains the HCFA data. The table also has a column for batch, suggesting that the data could be processed in batches. The primary key of the table consists of the invoiceid and insid columns, indicating that each record represents a specific invoice from a particular insurance provider.

| Column Name | Data Type         | Description  | Extraction Method            |
|-------------|-------------------|--|------------------------------|
| invoiceid   | int               | The invoiceid column is a unique identifier for each invoice in the hcfa_data table.           | CSV                          |
| insid       | int               | The insid column is an unsigned integer that uniquely identifies an insurance company.         | CSV                          |
| day         | date default NULL | The day column represents the specific date associated with an entry in the hcfa_data table.   | CSV                          |
| xml         | text              | The xml column contains XML data that is associated with a specific invoice and insurance.     | CSV + XML<br>Deserialization |
| batch       | tinyint           | The batch column is a numeric value representing the batch number to which an invoice belongs. | CSV                          |

## hcfa\_data table - xml column Custom XML Extraction

| Name                     | Description   | Field               | Data Type         | Serialization Type | Serialized Type |
|--------------------------|---|---------------------|-------------------|--------------------|-----------------|
| Professional Referral ID | The Professional Referral ID custom XML field is used to store a unique identifier associated with a professional referral in the EHR software. It is used to track and link referral information between healthcare providers and ensure proper coordination of care for the patient.                    | prof_refrl_id       | Integer<br>64-Bit |                    |                 |
| Claim Version            | The Claim Version custom XML field in the hcfa_data table is used to store the version of the claim associated with the data. It is used to indicate which version of the claim form (e.g., v5010 or v0212) should be used when generating the HCFA document.   | version             | String            |                    |                 |
| Ready Status             | The Ready Status custom XML field in the hcfa_data table is used to indicate the status of the HCFA data in relation to its readiness for processing or submission. It signifies whether the HCFA form has been completed, reviewed, and is ready to be sent to the insurance provider for reimbursement. | 269                 | String            |                    |                 |
| Claim Control Number     | The Claim Control Number custom XML field is used to store a unique identifier assigned to a healthcare claim. This number is used to track and identify the claim throughout the billing and reimbursement process.  | xClaimControlNumber | String            |                    |                 |

|                       |   |              |            |  |  |
|-----------------------|---|--------------|------------|--|--|
| Insurance Claim       | The Insurance Claim custom XML field in the hcfa_data table is used to store information related to an insurance claim for a patient. It contains serialized XML data that needs to be deserialized, indicating that it holds multiple pieces of information such as claim details, payment information, and any necessary documentation for the insurance claim. | xClaim       | Serialized |  |  |
| Insurance Providers   | The Insurance Providers custom XML field in the hcfa_data table contains serialized XML data that needs to be deserialized. It is used to store information about the insurance providers associated with the HCFA data, such as their names, contact information, and any specific details related to the insurance coverage they provide.                       | xProviders   | Serialized |  |  |
| Insurance Biller      | The Insurance Biller custom XML field in the hcfa_data table is used to store information about the biller responsible for processing insurance claims. It contains serialized XML data that needs to be deserialized in order to access the specific details of the insurance biller.  | xBiller      | Serialized |  |  |
| Insurance Subscribers | The Insurance Subscribers custom XML field in the hcfa_data table is used to store information about the subscribers of the insurance policy associated with the HCFA data. This data includes details such as subscriber names, IDs, contact information, and  | xSubscribers | Serialized |  |  |

|                             |   |                |            |  |  |
|-----------------------------|---|----------------|------------|--|--|
|                             | coverage information. It is used by the EHR software to track and manage insurance coverage for patients, including verifying eligibility, submitting claims, and processing payments.  |                |            |  |  |
| Patient                     | The specific Patient custom XML field is used to store serialized XML data related to the patient in an EHR software. It may contain information such as the patient's demographic details, medical history, allergies, medications, and other relevant information.  | xPatient       | Serialized |  |  |
| Diagnosis Codes             | The Diagnosis Codes custom XML field in the hcfa_data table is used to store the diagnosis codes associated with a patient's medical claim. These codes provide important information about the patient's medical condition and are used for billing and reimbursement purposes.  | xICD9DiagCodes | Serialized |  |  |
| Insurance Lines of Services | The Insurance Lines of Services custom XML field in the hcfa_data table is used to store serialized XML data related to the services provided by insurance providers. This field includes information such as the type of services covered by the insurance, their respective codes, and any associated details or restrictions. It is used in conjunction with an EHR software to track and manage the services offered by insurance providers for each invoice. | xServices      | Serialized |  |  |

## Frame Page Data - "framepage" CSV Export

The framepage table is used to store Frame Page Datas. It is used in conjunction with an EHR software to store information related to patient visits or encounters. The table includes columns such as 'acctid', which is the unique patient ID, 'fpid', which is an auto-incrementing ID for each entry, 'day', which is the date of the visit, 'xml', which is a text field containing XML data related to the visit, and other columns such as 'dday', 'status', 'expected', 'locid', and 'fpdeleted' which may represent additional information about the visit or the status of the entry.

| Column Name | Data Type                          | Description   | Extraction Method         |
|-------------|------------------------------------|---|---------------------------|
| acctid      | int                                | The acctid column is the unique patient ID from the 'patients' table.   | CSV                       |
| fpid        | int                                | The fpid column is an auto-incrementing integer column that serves as the primary key for the framepage table. It uniquely identifies each record in the table. | CSV                       |
| day         | date NOT NULL default '0000-00-00' | The day column represents the specific date associated with each record in the framepage table.   | CSV                       |
| xml         | text                               | The xml column stores encoded data in the form of text.   | CSV + XML Deserialization |
| dday        | date default NULL                  | The dday column represents the date on which a specific action or event associated with the framepage occurred.   | CSV                       |
| status      | varchar                            | The 'status' column in the 'framepage' table provides information about the current status of a frame page.   | CSV                       |
| expected    | date default NULL                  | The expected column stores the expected date for the completion or status change of a frame page entry.   | CSV                       |
| locid       | int                                | The locid column represents the unique location ID associated with a particular framepage record.   | CSV                       |
| fpdeleted   | tinyint                            | The fpdeleted column indicates whether or not the framepage entry has been deleted.   | CSV                       |



## framepage table - xml column Custom XML Extraction

| Name         | Description   | Field | Data Type | Serialization Type | Serialized Type |
|--------------|---|-------|-----------|--------------------|-----------------|
| Frame Order  | The Frame Order custom XML field in the framepage table is used to store information related to the order of frames for eyewear. It could include details such as the order number, quantity, or any specific instructions related to the frames.   | a     | String    |                    |                 |
| UPC          | The UPC custom XML field is used to store the Universal Product Code for the frame. This code is a unique identifier assigned to a specific product, typically used in retail settings for inventory management and sales tracking. In the context of an EHR software, it could be used to link the frame to its corresponding product information in a database or to facilitate ordering and billing processes. | b     | String    |                    |                 |
| Manufacturer | The Manufacturer custom XML field in the framepage table is used to store the name of the manufacturer of a particular frame.   | c     | String    |                    |                 |
| Collection   | The Collection custom XML field in the framepage table is used to store the name or identifier of a specific collection of frames within an EHR software. It could be used to categorize frames based on a specific style, design, or brand, allowing easier searching and management of frame options for patients.  | d     | String    |                    |                 |
| Name         | The "External VisionWeb Integration Order ID" custom XML field is used to store the unique identifier of an order that has been integrated with VisionWeb, a technology solution for the eyecare industry. This field allows for easy tracking and referencing of orders that have been processed through VisionWeb within the EHR software.  | e     | String    |                    |                 |

|   |   |   |        |  |  |
|---|---|---|--------|--|--|
| Color                                   | The Color custom XML field in the framepage table is used to store the color of the frame or product.   | f | String |  |  |
| Vision Type                             | The Vision Type custom XML field in the framepage table is used to store the type or category of vision correction or prescription associated with a frame page.  | o | String |  |  |
| Optician                                | The Optician custom XML field is used to store information about the optician associated with the frame page. This could include details such as the name, contact information, and any specific instructions or preferences for the optician.  | v | String |  |  |
| External VisionWeb Integration Status   | The External VisionWeb Integration Status custom XML field is used to indicate the current status of the integration with the VisionWeb platform.   | G | String |  |  |
| External VisionWeb Integration Order ID | The External VisionWeb Integration Order ID custom XML field is used to store the unique identifier of an order when integrating with the VisionWeb platform. This identifier is used to track and manage the order within the EHR software and facilitate communication with VisionWeb for order processing and fulfillment. | H | String |  |  |
| Ship to Patient                         | The Ship to Patient custom XML field is used to indicate whether the order should be shipped directly to the patient.   | 1 | Bool   |  |  |

## Appointment Log - "appt\_log" CSV Export

The appt\_log table appears to be used for storing logs of appointments made within the EHR software. It contains information such as the patient ID, appointment ID, date and time of the appointment, type of appointment, any notes or specific details about the appointment, and the employee ID of the staff member who scheduled or handled the appointment. This table allows for efficient tracking and management of appointments within the EHR system.

| Column Name | Data Type         | Description   | Extraction Method |
|-------------|-------------------|---|-------------------|
| fpid        | int               | The `fpid` column is a unique identifier for the patient associated with the appointment log entry.                             | CSV               |
| acctid      | int               | The acctid column is the unique patient ID associated with the appointment log entry.   | CSV               |
| logid       | int               | The logid column is an auto-incrementing integer value that serves as a unique identifier for each entry in the appt_log table. | CSV               |
| day         | date default NULL | The day column stores the date on which the appointment log entry was made.   | CSV               |
| dtime       | time default NULL | The dtime column stores the time of the appointment.  | CSV               |
| type        | tinyint           | The type column is an unsigned tinyint that represents the type of appointment in the appt_log table.                           | CSV               |
| notes       | varchar           | The notes column contains additional information or comments related to the appointment log entry.                              | CSV               |
| empid       | int               | The empid column represents the unique employee ID from the employees table.  | CSV               |

## Reminder Log - "rem\_log" CSV Export

The rem\_log table appears to be a log of reminders for a specific patient within an Electronic Health Record (EHR) software. Each log entry contains information such as the patient's unique ID (acctid), the reminder ID (remid), the log ID (logid), the date and time of the reminder (day, dtime), the type of reminder, any additional notes, and the ID of the employee responsible for the reminder (empid). This table is used to track and document the reminders sent to patients, ensuring important tasks or actions are completed in a timely manner.

| Column Name | Data Type         | Description  | Extraction Method |
|-------------|-------------------|--|-------------------|
| remid       | int               | The remid column is an unsigned integer that uniquely identifies a reminder in the rem_log table.  | CSV               |
| acctid      | int               | The acctid column is the unique identifier of the account to which the log entry belongs.          | CSV               |
| logid       | int               | The logid column is an auto-incremented unique identifier for each log entry in the rem_log table. | CSV               |
| day         | date default NULL | The day column represents the specific date when the log entry was recorded.                       | CSV               |
| dtime       | time default NULL | The dtime column represents the time at which a specific log entry was recorded.                   | CSV               |
| type        | tinyint           | The type column indicates the type of action or event associated with a log entry.                 | CSV               |
| notes       | varchar           | The notes column contains short descriptions or comments related to the log entry.                 | CSV               |
| empid       | int               | The empid column is the unique employee ID from the employees table.                               | CSV               |

## Inventory Log - "inv\_log" CSV Export

The inv\_log table appears to be a log of inventory activity related to an electronic health record (EHR) software. It tracks the quantity and type of inventory items used or modified within the system. The table contains columns such as fpid (which may refer to a specific inventory item), acctid (the unique patient ID associated with the inventory activity), logid (an auto-incrementing log identifier), day (the date of the inventory activity), dtime (the time of the inventory activity), type ( indicating the type of inventory activity), notes (additional information or comments related to the inventory activity), and empid (the unique employee ID associated with the inventory activity).

| Column Name | Data Type               | Description  | Extraction Method |
|-------------|-------------------------|--|-------------------|
| fpid        | int                     | The 'fpid' column is a unique identifier for a specific financial product in the database table 'inv_log'. It is a positive integer value and is used to associate logged information with a particular financial product. | CSV               |
| acctid      | int                     | The acctid column is the unique account ID for a patient in the patients table.  | CSV               |
| logid       | int                     | The logid column is an auto-incrementing identifier for each log entry in the inv_log table.   | CSV               |
| day         | date<br>default<br>NULL | The day column represents the date when the log entry was made.  | CSV               |
| dtime       | time<br>default<br>NULL | The dtime column represents the time of the event or action recorded in the inventory log.   | CSV               |
| type        | tinyint                 | The type column indicates the type of log entry.   | CSV               |
| notes       | varchar                 | The 'notes' column is used to store additional information or comments related to an inventory log entry.  | CSV               |
| empid       | int                     | The empid column represents the unique employee ID from the employees table.   | CSV               |

## Contact Lens Order - "contorders" CSV Export

The contorders table contains information about Contact Lens Orders within an EHR software. It includes fields such as the patient ID, order ID, order date, due date, XML data, creation date, order status, location ID, last updated date, reorder date, and a flag indicating if the order has been deleted. This table is used to track and manage contact lens orders for patients.

| Column Name  | Data Type                             | Description   | Extraction Method            |
|--------------|---------------------------------------|---|------------------------------|
| acctid       | int                                   | The acctid column is a unique identifier for a patient in the database.   | CSV                          |
| orderid      | int                                   | The orderid column is an auto-incremented integer that serves as the unique identifier for each order in the contorders table.    | CSV                          |
| orderdt      | date NOT NULL<br>default '0000-00-00' | The orderdt column is a required field that stores the date on which an order was made.   | CSV                          |
| duedt        | date NOT NULL<br>default '0000-00-00' | The duedt column represents the due date of the order.  | CSV                          |
| xml          | text                                  | The xml column stores the data in an XML format.  | CSV + XML<br>Deserialization |
| createdt     | date NOT NULL<br>default '0000-00-00' | The createdt column represents the date when the order was created.   | CSV                          |
| status       | varchar                               | The status column indicates the current status of an order, such as whether it has been dispensed or not.                         | CSV                          |
| locid        | int                                   | The 'locid' column is an unsigned integer that represents the unique identifier for a specific location in the 'locations' table. | CSV                          |
| last_updated | datetime default<br>NULL              | The last_updated column stores the datetime when the record was last modified or updated.   | CSV                          |

|             |                          |  |     |
|-------------|--------------------------|--|-----|
| reorderdate | datetime default<br>NULL | The reorderdate column stores the date and time when the order is scheduled to be reordered. | CSV |
| cldeleted   | tinyint                  | The cldeleted column indicates whether the order has been marked as deleted or not.          | CSV |

## Professional Referral - "pro\_refrl" CSV Export

The pro\_refrl table contains data related to professional referrals in an EHR software system. It stores information such as the unique identifier for the referral, the date and time it was created, the last time it was modified, and the XML data associated with the referral. It also includes details about the patient and the healthcare plan associated with the referral, as well as information about the referring healthcare provider. The table keeps track of the referral's status, the number of visits remaining, and the effective start and end dates for the referral. It also includes lists of diagnostic and billing codes associated with the referral, as well as a list of used invoice IDs.

| Column Name            | Data Type  | Description   | Extraction Method            |
|------------------------|--|---|------------------------------|
| id                     | bigint   | The id column is a unique identifier for each row in the pro_refrl table.   | CSV                          |
| insert_guid            | varchar  | The insert_guid column is a unique identifier assigned to each record in the pro_refrl table.   | CSV                          |
| created_datetime       | datetime<br>NOT NULL<br>default<br>'0000-00-00 00:00:00' | The created_datetime column stores the date and time when the record was initially created in the pro_refrl table.  | CSV                          |
| last_modified_datetime | datetime<br>NOT NULL<br>default<br>'0000-00-00 00:00:00' | The last_modified_datetime column is a datetime column that stores the date and time of the most recent modification made to the record in the pro_refrl table. | CSV                          |
| xml                    | text   | The xml column stores XML data related to the referral.   | CSV + XML<br>Deserialization |
| insid                  | int  | The insid column is an integer value that represents the unique subscription ID for a promotional referral in the database table.                               | CSV                          |
| plan_insid             | int  | The plan_insid column is an integer   | CSV                          |



|                                 |  |  |     |
|---------------------------------|--|--|-----|
|                                 |  | column that represents the unique ID of the insurance plan associated with the referral.   |     |
| acctid                          | int  | The acctid column is the unique patient ID from the 'patients' table.  | CSV |
| active                          | tinyint  | The active column indicates whether the referral is currently active or not.   | CSV |
| visits_remaining                | int  | The visits_remaining column represents the number of visits that are still available or remaining for a specific referral.                                       | CSV |
| effective_start_datetime        | datetime<br>NOT NULL<br>default<br>'0000-00-00 00:00:00' | The effective_start_datetime column stores the date and time when the referral becomes active and can be used for scheduling appointments or accessing services. | CSV |
| effective_start_datetime_active | tinyint  | The effective_start_datetime_active column indicates whether the effective start datetime is currently active for a referral.                                    | CSV |
| effective_end_datetime          | datetime<br>NOT NULL<br>default<br>'0000-00-00 00:00:00' | The effective_end_datetime column stores the date and time when the effectiveness of a referral ends.  | CSV |
| effective_end_datetime_active   | tinyint  | The effective_end_datetime_active column indicates whether the effective_end_datetime is currently active for the referral.                                      | CSV |
| diag_code_list                  | text   | The diag_code_list column stores a list of diagnostic codes associated with the referral.  | CSV |
| bill_code_list                  | text   | The bill_code_list column stores a list of bill codes associated with the referral.  | CSV |
| used_invoice_id_list            | text   | The used_invoice_id_list column is a text field that stores a list of invoice IDs that have been used in relation to the referral.                               | CSV |



## ProfessionalReferral Type

The ProfessionalReferral Type is used to store information about a professional referral made by a healthcare provider. It includes details such as the name of the provider, their qualifications, contact information, and the number of visits authorized for the referral. This information is used within an EHR software to track and manage referral services provided to patients. A ProfessionalReferral is serialized as XML and then binary in the xml column in the pro\_refrl table.

| Member Name       | Type                 | Description   |
|-------------------|----------------------|---|
|                   | ProfessionalReferral | The member "name" in the ProfessionalReferral Type is a string that represents the name of the professional being referred. It is used to store and retrieve the name of the referred provider in the EHR software.   |
| name              | String               | The name member of String Type in the ProfessionalReferral Type is used to store the name of the professional being referred.   |
| providerEmpid     | Int32                | The providerEmpid member of Int32 Type in the ProfessionalReferral Type is used to store the unique identifier of the provider employee within the EHR software.  |
| provTypeQualifier | String               | The provTypeQualifier member is a string that is used to indicate the type or qualification of the healthcare provider referenced in the referral. It may be used to distinguish between different types of providers, such as physicians, specialists, or therapists.          |
| provLastName      | String               | The provLastName member of String Type in the ProfessionalReferral Type represents the last name of the referring healthcare provider. It is used to identify and reference the referring provider when creating and managing professional referrals in an EHR software system. |
| provFirstName     | String               | The provFirstName member of String Type in the ProfessionalReferral Type represents the first name of the healthcare provider being referred to in an   |

|                          |        |   |
|--------------------------|--------|---|
|                          |        | electronic health record (EHR) software.  |
| provMiddleName           | String | The provMiddleName member of the String Type in the ProfessionalReferral Type is used to store the middle name of the referring healthcare provider.  |
| provSuffix               | String | The provSuffix member of String Type in the ProfessionalReferral Type is a string that represents the suffix of the provider's name, such as "Jr.", "Sr.", or "III". It is used to provide additional identification or clarification about the provider's name in the context of the referral information.                       |
| provNpi                  | String | The `provNpi` member of the `ProfessionalReferral` Type is a string that represents the National Provider Identifier (NPI) of the referred healthcare provider. It is used to uniquely identify the healthcare provider in the electronic health record (EHR) system and ensure accuracy and consistency in referral information. |
| authTypeQualifier        | String | The authTypeQualifier member in the ProfessionalReferral Type is a string that indicates the type of authorization associated with the referral. It is used in the EHR software to specify the specific type of authorization required for the referral, such as prior authorization, pre-certification, or referral code.        |
| authNumber               | String | The authNumber member of the ProfessionalReferral Type is a string that represents the authorization number associated with a professional referral in an EHR software. It is used to track and identify the specific authorization for the referral, allowing for easy management and documentation of the referral process.     |
| numberOfVisitsAuthorized | Int32  | The numberOfVisitsAuthorized member of Int32 Type in the ProfessionalReferral Type is used to store the maximum number of visits authorized for a referral.   |

## VSP Eligibility Service - "vsp\_eligibility\_services" CSV Export

The vsp\_eligibility\_services table is used to store information about the eligibility services provided by VSP (Vision Service Plan). It contains fields such as the benefit ID, name of the service, available date, available text, and status. This table is used in conjunction with an Electronic Health Record (EHR) software to manage and track the eligibility status of patients for specific services offered by VSP. The availableDate field may indicate when the service becomes available to patients, while the availableText field could provide additional information or instructions related to the service. The status field may indicate the current status of the service, such as whether it is active, inactive, or undergoing maintenance.

| Column Name   | Data Type                              | Description   | Extraction Method |
|---------------|--|---|-------------------|
| id            | int                                    | The id column is a unique identifier for each record in the vsp_eligibility_services table. It is an auto-incrementing integer value.                                   | CSV               |
| benefit_id    | int                                    | The benefit_id column is the unique identifier for the benefit associated with an eligibility service.  | CSV               |
| name          | varchar                                | The name column in the vsp_eligibility_services table stores a short string of characters that represents the name of a service.  | CSV               |
| availableDate | datetime default '1000-01-01 00:00:00' | The availableDate column stores the date and time when a certain service or benefit becomes available.  | CSV               |
| availableText | varchar                                | The availableText column contains a short description or text that provides additional information or details about the availability of a specific eligibility service. | CSV               |
| status        | varchar                                | The status column indicates the current status of the eligibility service.  | CSV               |

## VSP Claim Service - "vsp\_claim\_services" CSV Export

The vsp\_claim\_services table contains VSP Claim Services data. This table is used to store information related to individual services billed for VSP claims. It includes columns such as claim\_id to link the service to a specific claim, code to identify the service code, fromDate and toDate to specify the duration of the service, charges to store the cost of the service, dg1-dg4 to denote diagnosis codes, emg and epsdt flags to indicate special service requirements, pos to represent the place of service code, units to specify the quantity of the service provided, and mods to store any applicable modifiers. This table is used in conjunction with an EHR software to track and manage VSP claim services.

| Column Name | Data Type                | Description  | Extraction Method |
|-------------|--------------------------|--|-------------------|
| id          | int                      | The id column is a unique identifier for each row in the vsp_claim_services table.   | CSV               |
| claim_id    | int                      | The claim_id column is the unique identifier for a particular claim in the vsp_claim_services table.                             | CSV               |
| code        | varchar                  | The code column is a unique identifier for the service provided in the claim.  | CSV               |
| fromDate    | datetime<br>default NULL | The fromDate column represents the starting date for a specific claim service.   | CSV               |
| toDate      | datetime<br>default NULL | The toDate column represents the ending date for the period of service provided.   | CSV               |
| charges     | varchar                  | The charges column stores the amount of charges associated with a specific claim service.  | CSV               |
| dg1         | char                     | dg1: This column contains a single character code representing a specific diagnosis code for the claim service.                  | CSV               |
| dg2         | char                     | The dg2 column represents the second diagnosis code associated with a claim service.   | CSV               |
| dg3         | char                     | The dg3 column is a single character field that represents a specific diagnosis code or condition related to the claim services. | CSV               |

|       |         |  |     |
|-------|---------|--|-----|
| dg4   | char    | The dg4 column is a character field that stores a single character code representing a specific diagnosis.                                     | CSV |
| emg   | tinyint | emg: Indicates whether the service is emergency-related or not.  | CSV |
| epsdt | tinyint | The epsdt column indicates whether the claim service is related to the Early and Periodic Screening, Diagnostic and Treatment (EPSDT) program. | CSV |
| pos   | varchar | The pos column represents the place of service for a claim service.  | CSV |
| units | varchar | The units column represents the quantity or number of units associated with a specific service or procedure performed for a claim.             | CSV |
| mods  | varchar | The mods column contains a string of modifiers that provide additional information about the service provided.                                 | CSV |

## VSP Authorization Service - "vsp\_auth\_services" CSV Export

The vsp\_auth\_services table is used to store information about VSP Authorization Services. It contains details such as the ID of the authorization, the name of the service, the availability date, any accompanying text, and the status of the authorization. This table is probably used in conjunction with an EHR software to manage and track authorizations for patients accessing VSP services.

| Column Name   | Data Type                | Description   | Extraction Method |
|---------------|--------------------------|---|-------------------|
| id            | int                      | The id column is the primary key for the vsp_auth_services table. It is an auto-incrementing integer that uniquely identifies each record in the table. | CSV               |
| auth_id       | int                      | The auth_id column is an integer value that uniquely identifies an authentication service in the database.  | CSV               |
| name          | varchar                  | The name column stores the name of the authentication service.  | CSV               |
| availableDate | datetime<br>default NULL | The availableDate column stores the date on which the auth_service will be available for use.   | CSV               |
| availableText | varchar                  | The availableText column stores a short text description of the availability status of the authentication service.                                      | CSV               |
| status        | varchar                  | The status column represents the current state or condition of the authentication service.  | CSV               |



## VSP Authorization Service Grid - "vsp\_auth\_servicegrid" CSV Export

The vsp\_auth\_servicegrid table appears to store information about VSP Authorization Service Grids. These grids are used within an EHR software to manage and track authorizations for services provided to patients. The table includes columns for the name of the grid, its status, option code ID and name, as well as the cost for multi and single services. The table also has a foreign key relationship with the auth\_id column referring to the authorization ID. Overall, this table seems to be used for managing authorization grids and their associated information within the EHR software.

| Column Name    | Data Type | Description  | Extraction Method |
|----------------|-----------|--|-------------------|
| id             | int       | The id column is a unique identifier for each record in the vsp_auth_servicegrid table.  | CSV               |
| name           | varchar   | The name column in the vsp_auth_servicegrid table stores the name of the service grid.   | CSV               |
| status         | varchar   | The status column represents the current state or condition of a service in the authentication service grid.   | CSV               |
| optionCodeID   | varchar   | The optionCodeID column is a unique identifier for different options within the auth service grid.   | CSV               |
| optionCodeName | varchar   | The optionCodeName column contains the name of the option code associated with a service in the service grid.  | CSV               |
| multiCost      | varchar   | The multiCost column stores the cost of a service that is applicable when multiple units of that service are used or purchased.                                  | CSV               |
| singleCost     | varchar   | The singleCost column represents the cost of a single service provided by the authenticated service grid.  | CSV               |
| auth_id        | int       | The auth_id column is a unique identifier that is used to link the records in the vsp_auth_servicegrid table to specific authorization records in another table. | CSV               |

## Insurance Card Info - "ins\_card\_info" CSV Export

The ins\_card\_info table appears to store information related to insurance cards. It contains details such as the account ID associated with the insurance card, the type of insurance card, the date of the card, the file type of the card, the filename of the card, a description of the card, and the storage location or physical location of the card. It is connected to an Electronic Health Record (EHR) software as it is used for documentation purposes related to the 21st Century Cures Act B.10 All Data Export.

| Column Name   | Data Type                | Description   | Extraction Method |
|---------------|--------------------------|---|-------------------|
| fid           | int                      | The fid column is an auto-incrementing integer that serves as the primary key for the ins_card_info table.                                | CSV               |
| acctid        | int                      | The acctid column is the unique patient ID from the 'patients' table.   | CSV               |
| misc          | tinyint                  | The misc column represents miscellaneous information associated with the corresponding record.  | CSV               |
| tbl           | int                      | The tbl column stores the ID of the related table that the file is associated with.   | CSV               |
| date          | datetime<br>default NULL | The `date` column stores a specific date and time value.  | CSV               |
| file_type     | varchar                  | The file_type column specifies the type of the file associated with the insurance card information.                                       | CSV               |
| filename      | varchar                  | The filename column stores the name of the file associated with the record.   | CSV               |
| description   | varchar                  | The description column contains a brief explanation or summary of the information related to the file or document stored in the database. | CSV               |
| storelocation | tinyint                  | The storelocation column represents the physical storage location of the insurance card information.                                      | CSV               |
| location      | varchar                  | The location column stores the specific location associated with the card information.  | CSV               |

## Patient Photo - "pat\_photos" CSV Export

The pat\_photos table is used to store patient photos in an electronic health record (EHR) software. Each row represents a single patient photo, with the photo itself stored as a longblob data type. The primary key, 'acctid', is used as a unique identifier for each patient photo. This table is used for identification and reference purposes within the EHR system, allowing healthcare providers to associate a visual representation of a patient with their corresponding medical records.

| Column Name | Data Type | Description  | Extraction Method |
|-------------|-----------|--|-------------------|
| acctid      | int       | The acctid column is the unique identifier for each patient in the table.  | CSV               |
| photo       | longblob  | The photo column is a field that stores images in the form of binary data. | CSV               |

## Lab Order - "ehr\_file" CSV Export

The ehr\_file table contains Lab Orders for patients within an Electronic Health Record (EHR) software system. It stores information such as the account ID of the patient, the type of lab order, the date and time of the order, the lab order data, the last time the record was modified, the employee ID associated with the order, the location ID where the order was placed, and other relevant timestamps. This table is used to manage and track lab orders for patients within the EHR system.

| Column Name            | Data Type                   | Description  | Extraction Method               |
|------------------------|-----------------------------|--|---------------------------------|
| fid                    | int                         | The 'fid' column is a unique identifier for each entry in the 'ehr_file' table.  | CSV                             |
| acctid                 | int                         | The acctid column is the unique patient ID associated with the electronic health record file.  | CSV                             |
| type                   | int                         | The type column in the ehr_file table represents the specific type or category of the electronic health record file.                       | CSV                             |
| datet                  | datetime<br>default<br>NULL | The datet column represents the date and time when the file was created or last modified.  | CSV                             |
| data                   | longblob                    | The 'data' column in the 'ehr_file' table is a longblob type column that stores binary data.   | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The 'last_modified_datetime' column stores the date and time when the file was last modified.  | CSV                             |
| empid                  | int                         | The empid column is the unique employee ID associated with the record in the table.  | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column is a flag indicating whether or not the patient has been identified as a recipient of educational resources. | CSV                             |

|                             |                             |   |     |
|-----------------------------|-----------------------------|---|-----|
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column stores the date and time when the patient's identification for patient education resource was last modified. | CSV |
| locid                       | int                         | The locid column is the unique identifier for the location where the electronic health record file is associated.                                   | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for the patient.   | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column is a datetime column that stores the date and time when the file was uploaded for the patient.                     | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier generated for each record inserted into the ehr_file table.   | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the ehr_file record was created.  | CSV |
| sub_type                    | int                         | The 'sub_type' column is an integer that represents the subtype of the ehr file.  | CSV |

## BasicOrder Type

The BasicOrder Type is a data structure that represents a basic order for a laboratory test within an electronic health record (EHR) system. It stores information such as the type of test, the status of the order, the ordering provider, the date of the order, and any associated notes or observations. It is used to facilitate the management and tracking of laboratory orders within the EHR software. A BasicOrder is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name        | Type             | Description  |
|--------------------|------------------|--|
|                    | BasicOrder       | The "Notes" member of the BasicOrder type is used to store additional text information or comments related to the lab order.   |
| Lab                | Int32            | The Lab member of Int32 Type in the BasicOrder Type is used to store the identifier or code representing the specific laboratory test or procedure associated with the lab order.          |
| PerformingLab      | OrganizationType | The PerformingLab member of the OrganizationType type within the BasicOrder type is used to identify the laboratory that will perform the requested tests or procedures for the lab order. |
| PerformingLab.Name | String           | The Name member of String Type in the OrganizationType Type is used to store the   |

|                                  |                    |  |
|----------------------------------|--------------------|--|
|                                  |                    | name of the organization.  |
| PerformingLab.ID                 | String             | The ID member of String Type in OrganizationType is a unique identifier for the organization. It is used to uniquely identify the organization within the EHR software system.   |
| PerformingLab.IDType             | String             | The IDType member of String Type in the OrganizationType Type is used to specify the type of identification for the organization.  |
| PerformingLab.TypeCode           | String             | The TypeCode member of the String Type in the OrganizationType represents a code that specifies the type or category of the organization. It is used to classify organizations in the context of electronic health records (EHR) software.   |
| PerformingLab.AssigningAuthority | AssigningAuthority | The AssigningAuthority member of the AssigningAuthority Type is used to store information related to the assigning authority of an organization. It includes properties such as the namespace ID, unique identifier (UID), and UID type. This information is commonly used in electronic health record |

|  |        |  |
|--|--------|--|
|  |        | (EHR) systems to identify and reference organizations within a healthcare network or system.   |
| PerformingLab.AssigningAuthority.NamespaceID | String | The NamespaceID member of type String in the AssigningAuthority class is used to store the namespace identifier for a unique identifier (UID) in the context of an electronic health record (EHR) software. The namespace ID helps identify the specific system or organization that issued the UID.                           |
| PerformingLab.AssigningAuthority.UID         | String | The UID member of type String in the AssigningAuthority class is used to uniquely identify the Assigning Authority in the context of an electronic health record (EHR) software. It is used as a unique identifier for the namespace or organization associated with the data being recorded or transmitted in the EHR system. |
| PerformingLab.AssigningAuthority.UIDType     | String | The UIDType member of String Type in the AssigningAuthority Type is used to specify the type of unique identifier (UID) being  |



|  |             |  |
|--|-------------|--|
|  |             | used, such as a Universally Unique Identifier (UUID) or another identifier format.   |
| PerformingLab.Address                  | AddressType | The Address member of the AddressType Type in the OrganizationType Type is used to store the address information associated with an organization.  |
| PerformingLab.Address.Street           | String      | The Street member of String Type in the AddressType Type represents the street name and number of a physical address. It is used to store the specific location information for an individual or organization. |
| PerformingLab.Address.OtherDesignation | String      | The OtherDesignation member in the AddressType type is used to store any additional designation or identifier associated with an address, such as a suite number or building name.                             |
| PerformingLab.Address.City             | String      | The City member of type String in the AddressType class represents the city name of a particular address.  |
| PerformingLab.Address.State            | String      | The State member of the AddressType class is   |

|                               |        |   |
|-------------------------------|--------|---|
|                               |        | used to store the state or province of the address associated with the entity.  |
| PerformingLab.Address.Zip     | String | The Zip member of String Type in the AddressType Type is used to store the postal code or zip code of a specific address.   |
| PerformingLab.Address.Type    | String | The Type member of String Type in the AddressType Type represents the type or category of the address. It is used to differentiate between different types of addresses such as home address, work address, mailing address, etc.           |
| PerformingLab.Address.Text    | String | The Text member of the String Type within the AddressType Type is used to store additional textual information related to the address, such as apartment numbers, building designations, or specific instructions for locating the address. |
| PerformingLab.Address.Country | String | The Country member of the AddressType Type in the EHR software is used to store the country name or code associated with an address.  |

|  |           |  |
|--|-----------|--|
| PerformingLab.Address.CountyParishCode | String    | The CountyParishCode member of the AddressType type is a string that represents the code or identifier for a county or parish within a specific geographical area. It is used to identify the county or parish associated with an address in the EHR software. |
| PerformingLab.Phone                    | PhoneType | The Phone member of the PhoneType Type in the OrganizationType is used to store the phone number associated with a specific organization, such as a performing lab or a provider.  |
| PerformingLab.Phone.AreaCode           | String    | The AreaCode member of the PhoneType type represents the area code of a phone number.  |
| PerformingLab.Phone.Number             | String    | The Number member of the PhoneType Type in the EHR software is used to store the actual phone number associated with a phone contact.  |
| ProviderEmpID                          | Int32     | The ProviderEmpID member of Int32 Type in the BasicOrder Type is used to store the unique identifier of the healthcare provider associated with the order. This identifier   |

|                   |        |   |
|-------------------|--------|---|
|                   |        | can be used to link the order to the specific provider who entered or performed the order.  |
| Type              | String | The Type member of String Type in the BasicOrder Type is used to indicate the specific type or category of the order.   |
| Status            | String | The Status member of the BasicOrder Type in the EHR software is used to indicate the current status of the lab order.   |
| OrderID           | String | The OrderID member of type String in the BasicOrder class is used to uniquely identify a specific order within an electronic health record (EHR) system. It serves as a unique identifier for the order and can be used to track and reference the order throughout the EHR system. |
| FillerOrderNumber | String | The FillerOrderNumber member of type String in the BasicOrder class is used to store a unique identifier for the lab order generated by the performing lab.   |
| Name              | String | The Name member of String Type in the BasicOrder Type is used to store the name   |

|                  |          |  |
|------------------|----------|--|
|                  |          | or description of the lab order.   |
| Item             | Object   | The Item member of the BasicOrder Type is used to store additional information or details related to the lab order. It could potentially be used to store any additional data that is not specifically covered by the other properties of the BasicOrder Type.                         |
| Date             | DateTime | The Date member of the DateTime type in the BasicOrder type is used to store the date of the order. It represents the specific date when the lab order was created.  |
| EndDate          | DateTime | The EndDate member of the DateTime Type in the BasicOrder Type is used to represent the date and time when an order or request is expected to be completed or finalized. This is typically used in healthcare settings to track the anticipated completion of a lab test or procedure. |
| LastModifiedDate | DateTime | The LastModifiedDate member of DateTime Type in the BasicOrder Type is used to store the date and time when the Order was last modified in the EHR   |

|             |                          |  |
|-------------|--------------------------|--|
|             |                          | software.  |
| Code        | String                   | The Code member of type String in the BasicOrder class is used to store a code that represents a specific laboratory test or procedure associated with the order.  |
| Notes       | List<String>             | The Notes member of List<String> Type in the BasicOrder Type is used to store additional text or comments related to the lab order. It allows for capturing any relevant information or instructions that may be necessary for processing or interpreting the order. |
| Notes.      | String                   | The member of String Type in the List<String> Type is used to store a string value representing a note or comment associated with the Lab Order in the EHR software.   |
| ObsRequests | List<ObservationRequest> | The ObsRequests member of the List<ObservationRequest> type in the BasicOrder class is used to store the list of observation requests associated with a lab order. It may contain information such as the order number, filler                                       |

|                                   |                    |   |
|-----------------------------------|--------------------|---|
|                                   |                    | order number, placer group number, clinical information, provider details, status, reasons for study, results, notes, specimen details, diagnostic codes, and information about the collectors, technicians, performing organization, and other relevant data related to the observation requests made for the lab order. |
| ObsRequests.                      | ObservationRequest | The member of ObservationRequest Type, which is a member of the List<ObservationRequest> Type, is used to store multiple observation requests associated with a lab order.  |
| ObsRequests..OrderNumber          | EntityIdentifier   | The OrderNumber member of the EntityIdentifier type in the ObservationRequest type represents an identifier that uniquely identifies an order within the EHR software system. It is used to track and reference specific orders made by healthcare providers.   |
| ObsRequests..OrderNumber.EntityID | String             | The EntityID member of the EntityIdentifier type is used to store a   |

|                                       |        |  |
|---------------------------------------|--------|--|
|                                       |        | unique identifier for an entity within the EHR software system. This identifier could be used to reference and distinguish different entities, such as patients, providers, or organizations, within the system.                                     |
| ObsRequests..OrderNumber.EntityIDType | String | EntityIDType is a string member of the EntityIdentifier type that represents the type or category of the entity ID within the EHR software. It specifies the purpose or context of the identifier, such as "patient ID", "provider ID", or "lab ID". |
| ObsRequests..OrderNumber.NamespaceID  | String | The NamespaceID member of type String in the EntityIdentifier class is used to identify the specific namespace or system in which the EntityID is defined or belongs to in the context of electronic health records (EHR) software.                  |
| ObsRequests..OrderNumber.UID          | String | The UID member of String Type in the EntityIdentifier Type is used to store a unique identifier associated with a specific entity in the electronic health record (EHR) system. This identifier could be used for various                            |



|                                  |                  |   |
|----------------------------------|------------------|---|
|                                  |                  | <p>purposes such as linking related data across different systems or tracking the entity's activities or transactions within the EHR.</p>   |
| ObsRequests..OrderNumber.UIDType | String           | <p>The UIDType member of String Type in the EntityIdentifier Type is used to indicate the type or format of the UID (Unique Identifier) associated with the entity.</p>   |
| ObsRequests..FillerOrderNumber   | EntityIdentifier | <p>The FillerOrderNumber member of the EntityIdentifier type in the ObservationRequest object is used to store a unique identifier assigned by the performing lab or system for the specific order or request. It helps to track and correlate the order within the lab's system and can be used for reference or retrieval purposes.</p> |
| ObsRequests..PlacerGroupNumber   | EntityIdentifier | <p>The PlacerGroupNumber member of the EntityIdentifier Type in the ObservationRequest Type is used to uniquely identify a group or batch of orders or observations</p>   |

|                             |             |  |
|-----------------------------|-------------|--|
|                             |             | that are related or belong together. It is used as a reference number for grouping and tracking purposes within the EHR software.  |
| ObsRequests..ServiceID      | HL7CodeType | The ServiceID member of HL7CodeType Type in the ObservationRequest Type represents the code that identifies the specific service or test being requested or performed. It is used to uniquely identify and classify the type of medical service or test associated with the observation request in an electronic health record (EHR) system.   |
| ObsRequests..ServiceID.Code | String      | The Code member of the HL7CodeType type is used to store a code value that uniquely identifies a specific medical concept or term. It is commonly used in electronic health records (EHRs) to represent standardized codes such as diagnosis codes, procedure codes, or medication codes. The Code member allows for efficient data storage and retrieval, as well as interoperability |

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|  |        | between different healthcare systems and providers.  |
| ObsRequests..ServiceID.Name                | String | The Name member of String Type in the HL7CodeType Type is used to store the name or description of a code, such as the name of a medication or a medical test.   |
| ObsRequests..ServiceID.CodingSystem        | String | The CodingSystem member of String Type in the HL7CodeType Type is used to indicate the coding system or standard that is being used for the code value.  |
| ObsRequests..ServiceID.CodingSystemVersion | String | The CodingSystemVersion member of the HL7CodeType Type is a string that represents the version of the coding system used for identifying medical codes. It is used to denote the specific version of the coding system being used in the EHR software, ensuring compatibility and accuracy in the identification and categorization of medical data. |
| ObsRequests..ServiceID.AlternateCode       | String | The AlternateCode member of the HL7CodeType type is a string that represents an alternate code used  |

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|   |        | for identification or classification purposes. It is used to provide an alternative or additional code that can be used in conjunction with the primary code for a given entity, such as a lab test or medical procedure, in electronic health record (EHR) systems.                         |
| ObsRequests..ServiceID.AlternateName                | String | The AlternateName member of type String within the HL7CodeType type is used to store an alternative name or label for a particular code in the HL7 coding system.  |
| ObsRequests..ServiceID.AlternateCodingSystem        | String | The AlternateCodingSystem member of String Type in the HL7CodeType class is used to store an alternate coding system identifier for the code. This allows for compatibility and interoperability with different coding systems that may be used in different healthcare settings or regions. |
| ObsRequests..ServiceID.AlternateCodingSystemVersion | String | The AlternateCodingSystemVersion member of type String in the HL7CodeType class is   |

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|                                     |             | used to store an alternate version number for the coding system used in the HL7 code.  |
| ObsRequests..ServiceID.OriginalText | String      | The OriginalText member of String Type in the HL7CodeType is used to store the original text description or name of the code. It provides additional context or detail about the code being represented.                                     |
| ObsRequests..ObsTime                | DateTime    | The ObsTime member of the DateTime type in the ObservationRequest type is used to capture the date and time when an observation or test was performed.   |
| ObsRequests..ObsTimeEnd             | DateTime    | The ObsTimeEnd member of the ObservationRequest type represents the end time of the observation period for a specific test or procedure. It is used to define the duration or time range within which the observation or test was performed. |
| ObsRequests..ClinicalInfo           | HL7CodeType | The ClinicalInfo member of the HL7CodeType type is used to store clinical information or details related to the observation request. It  |

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|                                     |              | may include relevant medical history, symptoms, or other pertinent clinical information that helps provide context for the requested observation or test.   |
| ObsRequests..Provider               | ProviderType | The Provider member of ProviderType Type in the ObservationRequest is used to store information about the healthcare provider who is associated with the observation request.   |
| ObsRequests..Provider.Provider      | PersonType   | The Provider member of the PersonType Type in the ProviderType Type is used to represent the healthcare provider associated with a specific order. It includes information such as the provider's name, ID, address, phone number, date of birth, gender, race, and any associated notes. |
| ObsRequests..Provider.Provider.Name | NameType     | The Name member of the NameType type in the PersonType type is used to store the name of a person, including their given name, family name, surname, second name or initial, suffix, and prefix. It is used to identify and   |

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|   |        | display the name of a patient or healthcare provider within an electronic health record (EHR) system.   |
| ObsRequests..Provider.Provider.Name.FamilyName          | String | The FamilyName member of the String Type is a property that represents the family name or last name of an individual in the NameType Type. It is used to store the surname or family name of a person in electronic health record (EHR) software. |
| ObsRequests..Provider.Provider.Name.Surname             | String | The Surname member of the String Type represents the last name or family name of a person in the NameType Type. It is used to store the surname or family name of an individual when capturing their personal information in the EHR software.    |
| ObsRequests..Provider.Provider.Name.GivenName           | String | The GivenName member of String Type in the NameType Type represents the first or given name of a person. It is used to store the first name of a patient or provider in the EHR software.   |
| ObsRequests..Provider.Provider.Name.SecondNameOrInitial | String | The SecondNameOrInitial member of the   |

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|  |        | NameType Type is a string that represents the second name or initial of a person's name. It is used to store additional name information, such as a middle name or initial, for a patient or provider within an Electronic Health Record (EHR) system.                   |
| ObsRequests..Provider.Provider.Name.Suffix       | String | The Suffix member of the String Type in the NameType Type is used to store suffixes or titles that may be associated with a person's name, such as Jr., Sr., or Ph.D. This allows for the proper identification and display of a person's complete name in EHR software. |
| ObsRequests..Provider.Provider.Name.Prefix       | String | The Prefix member of the String Type in the NameType Type is used to store a prefix or title that can be associated with a person's name, such as "Dr." or "Mr.".  |
| ObsRequests..Provider.Provider.Name.NameTypeCode | String | The NameTypeCode member of String Type in the NameType Type is used to indicate the specific code or identifier associated with the type of name being used. It could be used to differentiate between different types of names, such as                                 |



|   |                    |   |
|---|--------------------|---|
|   |                    | family name, given name, middle name, etc., within the EHR software.  |
| ObsRequests..Provider.Provider.ID                 | String             | The ID member of String Type in the PersonType class is used to store a unique identifier for a person, such as a patient or a healthcare provider, in the Electronic Health Record (EHR) system. This identifier could be used for various purposes, including linking different pieces of information related to the person and ensuring their data is accurately associated with their identity. |
| ObsRequests..Provider.Provider.IDType             | String             | The IDType member in the PersonType class is used to identify the type of identification document associated with a person, such as a driver's license, passport, or social security number.  |
| ObsRequests..Provider.Provider.AssigningAuthority | AssigningAuthority | The AssigningAuthority member of the AssigningAuthority Type in the PersonType Type is used to store information related to the identification and assigning authority of a person. It includes fields such as the NamespaceID, UID, and  |

|  |             |   |
|--|-------------|---|
|  |             | <p>UIDType, which represent the unique identifier of the person and the type of the identifier. This information is commonly used in electronic health record (EHR) systems to ensure proper identification and tracking of individuals within the healthcare system.</p>   |
| ObsRequests..Provider.Provider.Address     | AddressType | <p>The Address member of the AddressType Type in the PersonType Type is used to store the address information of a person, such as their street, city, state, zip code, and country. It is used to capture and display the location information of a patient or provider in an electronic health record (EHR) system.</p> |
| ObsRequests..Provider.Provider.PhoneNumber | PhoneType   | <p>The PhoneNumber member of the PhoneType Type is used to store the phone number of a person.</p>  |
| ObsRequests..Provider.Provider.DateOfBirth | DateTime    | <p>The DateOfBirth member of the DateTime Type in the PersonType Type is used to store the date of birth of a person.</p>   |
| ObsRequests..Provider.Provider.Gender      | String      | <p>The Gender member of String Type in the PersonType Type is</p>   |

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|  |                    | used to store the gender or sex of a person in an Electronic Health Record (EHR) system.  |
| ObsRequests..Provider.Provider.Race      | HL7CodeType        | The Race member of the HL7CodeType Type is used to specify the racial or ethnic background of a person in the context of electronic health records (EHR). It provides standardized codes and names for different racial or ethnic categories, allowing for consistent and accurate documentation of patient demographics and health data. |
| ObsRequests..Provider.Provider.Notes     | List<String>       | The Notes member of List<String> Type is used to store additional textual information or comments relating to a person's personal information or medical history.   |
| ObsRequests..Provider.AssigningAuthority | AssigningAuthority | The AssigningAuthority member of the AssigningAuthority Type is used to identify and assign a unique identifier to a healthcare provider. It includes information such as the namespace ID, UID, and UID type. The assigning authority is responsible for assigning and managing  |

|                              |                   |  |
|------------------------------|-------------------|--|
|                              |                   | unique identifiers for healthcare providers in the EHR system.   |
| ObsRequests..Provider.Empid  | Int32             | The Empid member of type Int32 in the ProviderType class is used to store the identifier or employee ID of the healthcare provider associated with the order.  |
| ObsRequests..StatusTime      | DateTime          | The StatusTime member of the DateTime Type in the ObservationRequest is used to store the date and time when the status of the observation request was last modified or updated.                               |
| ObsRequests..Status          | String            | The Status member of type String in the ObservationRequest type is used to represent the current status or progress of the observation request, such as "pending", "completed", "cancelled", or "in progress". |
| ObsRequests..reasonsForStudy | List<HL7CodeType> | The reasonsForStudy member of List<HL7CodeType> in the ObservationRequest type is used to specify the reasons or indications for   |

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|                               |                         | performing the particular study or test requested.   |
| ObsRequests..reasonsForStudy. | HL7CodeType             | The member of HL7CodeType Type is used to store specific codes and corresponding information related to the healthcare industry. It may contain information such as the code itself, the name of the code, the coding system used, coding system version, alternate codes and names, and original text associated with the code. It is used to represent medical terminology, classifications, or standardized codes for various purposes within the EHR software, such as identifying lab tests, diagnoses, medications, or procedures. |
| ObsRequests..Results          | List<ObservationResult> | The Results member of List<ObservationResult> Type in the ObservationRequest Type is used to store the list of observation results associated with a particular lab order.   |
| ObsRequests..Results.         | ObservationResult       | The member of the ObservationResult Type, which is a member of the List<ObservationResult  |

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|  |            | > Type, is used to store the results of a specific observation or test conducted within an Electronic Health Record (EHR) system.   |
| ObsRequests..Results..ParentType         | ParentType | The ParentType member in the ObservationResult type is used to indicate the type of parent entity to which the observation result belongs. It can have values such as "None", "Immunization", or "ObservationRequest". The ParentType is used to organize and categorize the observation results within the EHR software. |
| ObsRequests..Results..ParentType.value__ | Int32      | The value__ member of the Int32 Type in the ParentType Type is used to represent the underlying numeric value of the ParentType enum.   |
| ObsRequests..Results..ParentType.None    | ParentType | The "None" member of the ParentType type is used to indicate that the BasicOrder does not have a parent type associated with it. It is used in cases where there is no related parent object or category for the order, such as immunization  |

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|   |            | or observation request.  |
| ObsRequests..Results..ParentType.Immunization       | ParentType | The Immunization member of the ParentType Type is used to represent an immunization record in the Electronic Health Record (EHR) software. It would contain information about the immunization, such as the type of immunization, the date it was administered, any associated notes, and additional details such as the provider who administered it. |
| ObsRequests..Results..ParentType.ObservationRequest | ParentType | The ObservationRequest member of the ParentType Type is used to store information related to a specific observation or test request within a medical order. It is used to capture details such as the type of observation being requested, any associated codes, and other relevant information.   |
| ObsRequests..Results..AssignedCodeType              | CodeType   | The AssignedCodeType member of the CodeType Type is used to specify the type or source of the assigned code for an observation result in the EHR   |

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|  |                             | software.   |
| ObsRequests..Results..AssignedCodeType.value__ | Int32                       | The value__ member of Int32 Type in the CodeType Type is an internal representation of the enum value assigned to the CodeType. It is used for internal comparisons and operations within the EHR software.   |
| ObsRequests..Results..AssignedCodeType.None    | CodeType                    | The None member of the CodeType type is used as a default or placeholder value when no specific code type is assigned or applicable.  |
| ObsRequests..Results..AssignedCodeType.ELLKAY  | CodeType                    | The ELLKAY member of the CodeType type is used as a code or identifier specifically related to ELLKAY, which is a company that provides healthcare data solutions. It may be used to represent a specific action, category, or functionality related to ELLKAY within the EHR software. |
| ObsRequests..Results..IdentifierSelectionType  | Nullable<CodeSelectionType> | The IdentifierSelectionType member of Nullable<CodeSelectionType> Type in the ObservationResult Type is used to indicate the selection type for the identifier of an  |



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|                                 |             | observation result. This could refer to whether the identifier is manually assigned or automatically generated, or it could specify any other specific selection type for the identifier.  |
| ObsRequests..Results..ValueType | String      | The ValueType member of type String in the ObservationResult class is used to indicate the type or format of the value stored in the Value member of the ObservationResult class. It specifies whether the value is a numeric, textual, or other type of data. |
| ObsRequests..Results..ObsID     | HL7CodeType | The ObsID member of the HL7CodeType type represents the unique identifier or code for an observation or test result within the HL7 standard. It is used to identify a specific type of observation or test result within the EHR software.                     |
| ObsRequests..Results..ObsSubID  | String      | The ObsSubID member is a string identifier used to specify additional sub-identifiers or sub-categories for a particular observation result within the EHR software.   |

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| ObsRequests..Results..Value          | String      | The Value member of the ObservationResult Type in the ehr_file table contains the result or measurement value of the observation or lab test. It is a string type and represents the actual numerical or textual value obtained from the test.  |
| ObsRequests..Results..Units          | HL7CodeType | The Units member of the HL7CodeType type represents the units of measurement for a specific observation result in the ObservationResult type. It provides information about the measurement scale or standard used to quantify the value of the observation.  |
| ObsRequests..Results..ReferenceRange | String      | The ReferenceRange member of type string in the ObservationResult class is used to store the reference range or normal range for a specific observation result. This range is used to compare the value of the observation with the expected normal values and determine if the result falls within the normal range or is outside of it. |

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| ObsRequests..Results..Flag         | String   | The Flag member of String Type in the ObservationResult Type is used to indicate a specific status or condition associated with the observation result.   |
| ObsRequests..Results..Status       | String   | The Status member of String Type in the ObservationResult Type is used to indicate the current status of the observation result. It could represent whether the result is preliminary, final, pending, or any other status relevant to the interpretation of the observation. |
| ObsRequests..Results..ObsTime      | DateTime | The ObsTime member of DateTime Type in the ObservationResult Type is used to store the date and time at which the observation was recorded or measured. It represents the timestamp of when the observation was made in the electronic health record (EHR) software.          |
| ObsRequests..Results..AnalysisTime | DateTime | The AnalysisTime member of the DateTime Type in the ObservationResult Type is used to represent the time at which the analysis or testing of the observation result was performed by the  |

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|   |                  | performing organization.   |
| ObsRequests..Results..PerformingOrg         | OrganizationType | The PerformingOrg member of the OrganizationType type is used to store information about the healthcare organization that is responsible for performing the laboratory test or procedure associated with the observation result. |
| ObsRequests..Results..PerformingOrgDirector | PersonType       | The PerformingOrgDirector member of the PersonType Type in the ObservationResult Type is used to store information about the director or supervisor of the performing organization involved in the lab observation.              |
| ObsRequests..Results..Notes                 | List<String>     | The Notes member of type List<String> in the ObservationResult is used to store any additional textual notes or comments related to the observation result.  |
| ObsRequests..Results..AbnormalFlags         | List<HL7_ID>     | The AbnormalFlags member of the List<HL7_ID> type in the ObservationResult type is used to store abnormal flags associated with the observation result. These flags indicate any   |

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|   |         | abnormal or out-of-range values for the observed data.  |
| ObsRequests..Results..AbnormalFlags.          | HL7_ID  | The member "HL7_ID" is used to store an ID value related to an HL7 (Health Level 7) standard in the healthcare industry. It may be used to identify a specific entity, such as a patient, provider, or organization, and indicates whether the ID value is complete or not.           |
| ObsRequests..Results..AbnormalFlags..value    | String  | The value member of String Type in the HL7_ID Type is used to store a unique identifier for a specific entity in the HL7 standard. It is used to represent the value of an ID field within an HL7 message, such as an identification number for a patient, provider, or organization. |
| ObsRequests..Results..AbnormalFlags..complete | Boolean | The complete member of the Boolean Type in the HL7_ID Type is a boolean value that indicates whether the value of the HL7_ID is complete or not. It is used in the context of EHR software to determine if the HL7_ID value is fully populated or if it is missing any                |

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|  |          | relevant information.   |
| ObsRequests..Results..NatureOfAbnormalTest             | HL7_ID   | The NatureOfAbnormalTest member of the HL7_ID Type in the ObservationResult Type is used to specify the nature of abnormal test results.  |
| ObsRequests..Results..DataLastObsNormalValues          | DateTime | The DataLastObsNormalValues member of the ObservationResult Type in the EHR software is used to store the date and time when the last observation of normal values was recorded for the specific observation result.  |
| ObsRequests..Results..DataLastObsNormalValuesSpecified | Boolean  | The DataLastObsNormalValuesSpecified member of Boolean Type in the ObservationResult Type is used to indicate whether the DataLastObsNormalValues property has a specified value. It is used to determine if the DataLastObsNormalValues property should be included in the data export or not. |
| ObsRequests..Results..ProducersId                      | HL7_CE   | The ProducersId member of the HL7_CE Type in the ObservationResult Type is used to store the  |

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|  |        | identifier of the producer or organization responsible for generating the observation result.   |
| ObsRequests..Results..ProducersId.identifier   | String | The identifier member of the String Type in the HL7_CE Type is used to uniquely identify a specific entity or concept within a given coding system. It is used to provide a standardized code or ID that can be used to reference the entity or concept consistently within the EHR software. |
| ObsRequests..Results..ProducersId.text         | String | The text member of the String Type in the HL7_CE Type is used to store the textual representation of a code or identifier. It is used to provide a human-readable description or name for the code or identifier in the context of the EHR software.  |
| ObsRequests..Results..ProducersId.codingSystem | String | The codingSystem member of String Type in the HL7_CE Type is used to specify the coding system or standard that is being used for the identifier or code in the HL7 message.  |

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| ObsRequests..Results..ProducersId.alternateIdentifier   | String | The alternateIdentifier member of the HL7_CE Type is used to store an alternate identification number or code that may be assigned to the entity represented by the HL7_CE object in the EHR software. This alternate identifier could be used for cross-referencing or linking purposes within the system.         |
| ObsRequests..Results..ProducersId.alternateText         | String | The `alternateText` member of the `HL7_CE` type is used to store an alternate text description for a code or identifier. It may be used to provide additional information or clarification about the code or identifier in a different format or language.  |
| ObsRequests..Results..ProducersId.alternateCodingSystem | String | The alternateCodingSystem member of the String Type in the HL7_CE Type is used to store an alternate coding system identifier for a particular concept or value. It provides an additional means of identifying the concept being represented in case the primary coding system is not available or not recognized. |



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| ObsRequests..Results..ProducersId.complete                                 | Boolean  | The complete member of the Boolean type in the HL7_CE type is used to indicate whether the HL7_CE object contains all the necessary information or if there is missing or incomplete information.  |
| ObsRequests..Results..ResponsibleObserver                                  | Provider | The ResponsibleObserver member of the Provider Type in the ObservationResult Type is used to indicate the healthcare provider who is responsible for performing or overseeing the observation or analysis related to the specific result.                                |
| ObsRequests..Results..ResponsibleObserver.DataTypeField                    | DataType | The DataTypeField member of the DataType Type in the Provider Type is used to specify the type of data related to the provider. It determines whether the provider is entered by the user, ordering provider, administrative provider, administrative location, or none. |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.value__<br>value__ | Int32    | The value__ member of the Int32 Type in the DataType Type is used to store an integer value representing the specific data type within the EHR software. It is used to   |

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|  |          | differentiate between different types of providers or locations associated with the order, such as the ordering provider or the admin provider.  |
| ObsRequests..Results..ResponsibleObserver.DataTypeField<br>.EnteredBy        | DataType | The EnteredBy member of the DataType Type in the EHR software is used to store information about the healthcare provider who entered the order into the system.                          |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.<br>OrderingProvider | DataType | The OrderingProvider member of DataType Type is used to store information about the provider who placed the lab order in an EHR system.  |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.<br>.AdminProvider   | DataType | The AdminProvider member of the DataType Type is used to store information about the administrative provider associated with a lab order in an EHR software.                             |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.<br>.AdminLocation   | DataType | The AdminLocation member of the DataType Type is used to store information about the administrative location associated with a healthcare order or record in an EHR software. This could |

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|  |                         | include details such as the physical location, department, or unit within a healthcare facility where the order or record was administered or performed.  |
| ObsRequests..Results..ResponsibleObserver.DataTypeField<br>.None | DataType                | The None member of the DataType Type is used to indicate that no specific type of data is associated with the order. It signifies that there is no specific data related to the ordering provider, admin provider, or admin location for the order. |
| ObsRequests..Results..ResponsibleObserver.Person                 | ExtendedCompositePerson | The Person member of the ExtendedCompositePerson type in the Provider type is used to store information about a healthcare provider, such as their name, identification number, and other personal details.   |
| ObsRequests..Results..ResponsibleObserver.Person.IdNumber        | String                  | The IdNumber member of String Type in the ExtendedCompositePerson Type is used to store a unique identification number for an individual. This could be a government-issued ID, such as a social security number or driver's license number, or a   |

|  |            |  |
|--|------------|--|
|  |            | healthcare-specific identifier, such as a medical record number. Its purpose is to uniquely identify individuals within the EHR system.  |
| ObsRequests..Results..ResponsibleObserver.Person.IdType            | String     | The IdType member of type String in the ExtendedCompositePerson class is used to specify the type of identification associated with a person, such as a driver's license, passport, or social security number. |
| ObsRequests..Results..ResponsibleObserver.Person.LastName          | FamilyName | The LastName member of the FamilyName Type is used to store the surname or last name of a person in the ExtendedCompositePerson Type.  |
| ObsRequests..Results..ResponsibleObserver.Person.LastName.Surname  | String     | The Surname member of the String Type in the FamilyName Type is used to store the last name or family name of a person in an electronic health record (EHR) software.  |
| ObsRequests..Results..ResponsibleObserver.Person.LastName.complete | Boolean    | The complete member of Boolean Type in the FamilyName Type is a property that represents whether the family name is complete or not. It is used to indicate if the   |

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|--|--------|--|
|  |        | family name field in the EHR software has been filled out completely or if there is missing or incomplete information.   |
| ObsRequests..Results..ResponsibleObserver.Person.FirstName       | String | The FirstName member of String Type in the ExtendedCompositePerson Type represents the first name of a person. It is used to store the first name of a patient or healthcare provider.   |
| ObsRequests..Results..ResponsibleObserver.Person.GivenNamesOther | String | The GivenNamesOther member of type String in the ExtendedCompositePerson class is used to store any additional given names or middle names of a person.  |
| ObsRequests..Results..ResponsibleObserver.Person.Prefix          | String | The Prefix member of String Type in the ExtendedCompositePerson Type is used to capture the title or honorific prefix (such as Mr., Mrs., Dr., etc.) associated with a person's name.  |
| ObsRequests..Results..ResponsibleObserver.Person.Suffix          | String | The Suffix member of String Type in the ExtendedCompositePerson Type represents a suffix or title that may be associated with a person's name in the EHR software. It is used to capture titles such as Jr., Sr., III, Dr., etc. |

|   |                        |  |
|---|------------------------|--|
|   |                        | related to a person's name.  |
| ObsRequests..Results..ResponsibleObserver.Person.NameType                       | String                 | The NameType member of the String Type in the ExtendedCompositePerson Type is used to indicate the type or category of the person's name, such as "legal name" or "preferred name".  |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority             | HierarchicalDesignator | The AssigningAuthority member of the HierarchicalDesignator Type is used to identify the authority responsible for assigning the unique identifier (IdNumber) to an individual or entity. It provides information about the organization or system that assigns the identifier, including the NamespaceId, UniversalId, and UniversalIdType. |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority.NamespaceId | String                 | The NamespaceId member of type String in the HierarchicalDesignator type is used to identify the namespace or domain associated with the data. It is a unique identifier that represents the specific context or system in which the data is defined or organized.   |

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| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority.UniversalId     | String  | The UniversalId member of the HierarchicalDesignator Type in the EHR software is used to uniquely identify the hierarchical designator within a specific namespace. It is a string value that serves as a globally unique identifier for the hierarchical designator. |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority.UniversalIdType | String  | The UniversalIdType member of String Type in the HierarchicalDesignator Type is used to specify the type of identifier for the universal identifier (UniversalId) of a healthcare organization or system.   |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority.complete        | Boolean | The complete member of Boolean Type in the HierarchicalDesignator Type is used to indicate if the hierarchical designator is complete or not. It represents whether all the necessary information for the hierarchical designator has been provided or not.           |
| ObsRequests..Results..ResponsibleObserver.Person.complete                           | Boolean | The complete member of Boolean Type in the ExtendedCompositePerson Type is used to indicate the completeness or availability of the   |

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|---|-------|--|
|   |       | person's information in the EHR software.  |
| ObsRequests..Results..ResponsibleObserver.type          | Type  | The type member of the Type Type in the Provider Type is used to classify different types of providers within the EHR software. It is used to differentiate between different categories or specialties of healthcare providers, such as physicians, nurses, or technicians, for the purpose of organizing and managing the provider data within the system. |
| ObsRequests..Results..ResponsibleObserver.type.value__  | Int32 | The value__ member of the Int32 Type is used to store the underlying integer value of the Type enum. It represents the specific type of the BasicOrder, indicating the purpose or category of the lab order within the EHR software.   |
| ObsRequests..Results..ResponsibleObserver.type.Provider | Type  | The Provider member of Type Type is used to store information about the healthcare provider associated with the lab order. This could include details such as the provider's name, ID, contact information, and other relevant information.  |



|   |      |   |
|---|------|---|
| ObsRequests..Results..ResponsibleObserver.type.Provider2      | Type | The Provider2 member of the Type Type is used to store information about a secondary healthcare provider who is involved in the Lab Order, such as a consulting specialist or a collaborating physician.  |
| ObsRequests..Results..ResponsibleObserver.type.Location       | Type | The Location member of the Type Type in the BasicOrder class is used to store information about the location associated with the order. This could include details such as the physical location where the order was performed or the location of the provider or patient associated with the order. However, without further context or code analysis, it is difficult to provide a definitive answer. |
| ObsRequests..Results..ResponsibleObserver.type.Identification | Type | The Identification member of the Type Type is used to store identification information related to the Lab Order in the EHR software.  |
| ObsRequests..Results..ResponsibleObserver.type.ContactInfo    | Type | The ContactInfo member in the Type Type is used to store contact information  |

|  |      |   |
|--|------|---|
|  |      | related to a Lab Order.   |
| ObsRequests..Results..ResponsibleObserver.type.Composite | Type | The Composite member of the Type Type is used to represent a composite data type that consists of multiple related fields or components. It could be used to store complex information that requires multiple attributes or properties to describe it fully.  |
| ObsRequests..Results..ResponsibleObserver.type.ID_TB     | Type | The ID_TB member of Type Type is used to identify a Tuberculosis (TB) order in an EHR system.   |
| ObsRequests..Results..ResponsibleObserver.type.ID_CmbBox | Type | The ID_CmbBx member of the Type enum is used to identify a combination box or dropdown box in an electronic health record (EHR) software. This member might be used to store the ID or code associated with a specific option selected from a combination box or dropdown box for a specific field or data element in the EHR system. |
| ObsRequests..Results..ResponsibleObserver.type.CE        | Type | The CE member of Type Type is used to represent a Clinical Encounter, which is a record of a patient's visit to a healthcare  |

|   |      |  |
|---|------|--|
|   |      | provider.  |
| ObsRequests..Results..ResponsibleObserver.type.PersonLocation | Type | The PersonLocation member of Type Type is used to store information related to a person's location within the EHR software. This information could include details such as the person's room number, bed number, or other location-specific identifiers. |
| ObsRequests..Results..ResponsibleObserver.type.CM_NDL         | Type | The CM_NDL member of the Type Type is used to indicate a specific type or category related to the patient's care management in the EHR software.   |
| ObsRequests..Results..ResponsibleObserver.type.CM_EIP         | Type | The CM_EIP member of the Type Type is used to indicate a specific type of electronic imaging procedure in the context of an EHR software.  |
| ObsRequests..Results..ResponsibleObserver.type.EI             | Type | The EI member of Type Type is used to represent an Electronic Immunization record.   |
| ObsRequests..Results..ResponsibleObserver.type.HD             | Type | The HD member of the Type enum is used to represent a lab order related to the patient's history and diagnostics.  |
| ObsRequests..Results..ResponsibleObserver.lab                 | Lab  | The lab member of the Lab Type in the Provider   |

|   |         |   |
|---|---------|---|
|   |         | Type is used to specify the laboratory associated with the provider.  |
| ObsRequests..Results..ResponsibleObserver.lab.value__         | Int32   | The value__ member of the Int32 Type in the Lab Type is used to store the integer value representing the Lab option selected.   |
| ObsRequests..Results..ResponsibleObserver.lab.None            | Lab     | The "None" member of the Lab Type in the BasicOrder class is used to indicate that no specific lab is associated with the order. It signifies that the order does not require any specific lab for testing or processing. |
| ObsRequests..Results..ResponsibleObserver.lab.EllkayProgenity | Lab     | The EllkayProgenity member of the Lab Type is used to represent the specific laboratory or testing facility that is being used for the lab order.   |
| ObsRequests..Results..ResponsibleObserver.empid2              | Int32   | The empid2 member of Int32 type in the Provider class is used to store the Employee ID associated with the provider.  |
| ObsRequests..Results..ResponsibleObserver.complete            | Boolean | The complete member of the Boolean Type in the Provider Type is used to indicate whether or not the provider's information  |

|  |              |  |
|--|--------------|--|
|  |              | is complete in the EHR software.   |
| ObsRequests..Results..ItemInfoListXml      | String       | The ItemInfoListXml member is a string that contains additional information or metadata about an item or result in the ObservationResult. It is used to store structured data associated with the specific observation or test result in the EHR software.                                 |
| ObsRequests..Results..itemInfoListXmlField | String       | The itemInfoListXmlField member of String Type in the ObservationResult Type is used to store additional information about the item that is being observed in the lab order. This information is stored in XML format to allow for structured and standardized representation of the data. |
| ObsRequests..Notes                         | List<String> | The Notes member of the List<String> type is used to store any additional notes or comments related to the observation request.  |
| ObsRequests..SpecimenActionCode            | String       | The SpecimenActionCode member in the ObservationRequest  |

|   |                   |  |
|---|-------------------|--|
|   |                   | Type is used to indicate the action to be taken with the specimen, such as collection, transport, or discard, in relation to the lab order.  |
| ObsRequests..Specimen                         | LabResultSpecimen | The Specimen member of the LabResultSpecimen Type is used to store information about the specimen collected for a lab test.  |
| ObsRequests..Specimen.ID                      | HL7CodeType       | The ID member of the HL7CodeType Type in the LabResultSpecimen Type is used to identify a specific code or identifier within the HL7 coding system. It is used to uniquely identify a particular code within a given set of codes, such as a laboratory test or specimen type. |
| ObsRequests..Specimen.CollectionDateTimeStart | DateTime          | The CollectionDateTimeStart member of DateTime Type in the LabResultSpecimen Type is used to represent the start date and time of specimen collection for a lab test in an electronic health record (EHR) system.  |
| ObsRequests..Specimen.CollectionDateTimeEnd   | DateTime          | The CollectionDateTimeEnd member of the  |

|                                       |                   |   |
|---------------------------------------|-------------------|---|
|                                       |                   | DateTime Type within the LabResultSpecimen Type is used to represent the end date and time of the collection period for a lab specimen. It specifies the date and time at which the collection of the specimen was completed. |
| ObsRequests..Specimen.RejectReasons   | List<HL7CodeType> | The RejectReasons member of the List<HL7CodeType> type is used to store a list of reasons for rejecting the lab specimen.   |
| ObsRequests..Specimen.Quality         | HL7CodeType       | The Quality member of the HL7CodeType type in the LabResultSpecimen type is used to indicate the quality or reliability of the specimen collected for the lab test.   |
| ObsRequests..Specimen.Appropriateness | HL7CodeType       | The Appropriateness member of the HL7CodeType type in LabResultSpecimen is used to indicate whether the specimen collection was appropriate or suitable for the lab test being performed.                                     |
| ObsRequests..Specimen.Conditions      | List<HL7CodeType> | The Conditions member of the List<HL7CodeType>  |

|                         |                    |  |
|-------------------------|--------------------|--|
|                         |                    | <p>type is used to represent any specific conditions or circumstances related to the lab result specimen. It may include additional information about the specimen beyond what is captured in other properties, such as any particular conditions under which the specimen was collected or specific requirements for handling or processing the specimen.</p> |
| ObsRequests..Diags      | List<HL7CodeType>  | <p>The Diags member of the List&lt;HL7CodeType&gt; type in the ObservationRequest type is used to store diagnostic codes associated with a laboratory order. It may contain one or more diagnostic codes that provide additional information about the medical condition being tested or investigated.</p>   |
| ObsRequests..Collectors | List<ProviderType> | <p>The Collectors member of the List&lt;ProviderType&gt; type in the ObservationRequest type is used to store information about the healthcare providers or individuals who collect the specimens for the</p>  |



|                           |                  |  |
|---------------------------|------------------|--|
|                           |                  | lab orders.  |
| ObsRequests..Collecters.  | ProviderType     | The member of ProviderType Type, which is a member of the List<ProviderType> Type, is used to store information about healthcare providers who are associated with the lab order. This information may include details about the provider such as their name, assigning authority, and employee ID.                                |
| ObsRequests..Technicians  | List<HL7_CM_NDL> | The Technicians member of List<HL7_CM_NDL> Type in the ObservationRequest is used to store information about the technicians involved in performing the lab test or analysis requested in an order.  |
| ObsRequests..Technicians. | HL7_CM_NDL       | The member of the HL7_CM_NDL type is used to store the details of a specific location within a healthcare facility, such as the point of care, room, bed, building, floor, and location description. It may also include information about the status and type of the location, as well as the facility and person associated with |

|  |        |   |
|--|--------|---|
|  |        | it.   |
| ObsRequests..Technicians..pointOfCare        | String | The pointOfCare member of String Type in the HL7_CM_NDL Type is used to store the specific location identifier within a healthcare facility, such as a room or ward, where an individual is located or an action is taking place. |
| ObsRequests..Technicians..room               | String | The room member of String Type in the HL7_CM_NDL Type is used to store the room number or identifier of a specific location within a healthcare facility.   |
| ObsRequests..Technicians..bed                | String | The "bed" member of type String in the HL7_CM_NDL type is used to store the bed number or identifier associated with a patient's location in a healthcare facility.   |
| ObsRequests..Technicians..locationStatus     | String | The locationStatus member of String Type in the HL7_CM_NDL Type is used to indicate the current status or condition of a location within the EHR software.  |
| ObsRequests..Technicians..personLocationType | String | The personLocationType member in the HL7_CM_NDL Type is a   |

|   |                        |   |
|---|------------------------|---|
|   |                        | string that represents the type of person or entity associated with a specific location within a healthcare facility.   |
| ObsRequests..Technicians..building            | String                 | The `building` member of the `HL7_CM_NDL` type is used to store the name or identifier of the building where a patient is located within a healthcare facility.                                     |
| ObsRequests..Technicians..floor               | String                 | The floor member of the String type in the HL7_CM_NDL type is used to represent the floor number or level of a location within a healthcare facility.   |
| ObsRequests..Technicians..locationDescription | String                 | The locationDescription member in the HL7_CM_NDL type is used to store a textual description or name of a specific location within a healthcare facility, such as a room number or department name. |
| ObsRequests..Technicians..facility            | HierarchicalDesignator | The facility member of the HierarchicalDesignator type is used to represent the facility or organization where the HL7_CM_NDL record is located or associated with in the EHR software.             |

|  |                         |  |
|--|-------------------------|--|
| ObsRequests..Technicians..name                 | ExtendedCompositePerson | The name member of the ExtendedCompositePerson Type in the HL7_CM_NDL Type is used to store the name of a person associated with a specific location in the electronic health record (EHR) software.   |
| ObsRequests..Technicians..startDateTimeEnabled | Boolean                 | The startDateTimeEnabled member of Boolean Type in the HL7_CM_NDL Type is a flag that indicates whether the start date and time for a location is enabled or not. It is used to determine if the EHR software allows users to input or modify the start date and time for a particular location. |
| ObsRequests..Technicians..endDateTimeEnabled   | Boolean                 | The endDateTimeEnabled member of Boolean Type in the HL7_CM_NDL Type is a flag that indicates whether the end date and time for a location change is enabled or not in the electronic health record (EHR) software.  |
| ObsRequests..Technicians..complete             | Boolean                 | The complete member of Boolean Type in the HL7_CM_NDL Type is used to indicate whether a specific task   |

|   |            |  |
|---|------------|--|
|   |            | or action is complete or not.  |
| ObsRequests..DiagServSectId                                   | HL7_ID     | The DiagServSectId member of the HL7_ID Type is used to identify the diagnostic service section or department within a healthcare organization.  |
| ObsRequests..Parent   | HL7_CM_EIP | The Parent member of HL7_CM_EIP Type in the ObservationRequest Type is used to specify the parent order for a given order. It may be used to link related orders together, such as a follow-up order or a revised order.             |
| ObsRequests..Parent.parentsPlacerOrderNumber                  | HL7_EI     | The parentsPlacerOrderNumber member of HL7_EI type is used to represent the identifier of the parent order in the context of the HL7_CM_EIP type. It is used to track the order hierarchy and relationships within the EHR software. |
| ObsRequests..Parent.parentsPlacerOrderNumber.entityIdentifier | String     | The entityIdentifier member of String Type in the HL7_EI Type is used to uniquely identify an entity within the context of an electronic health record (EHR) system. It provides a specific  |

|  |        |  |
|--|--------|--|
|  |        | <p>identifier for an entity, such as a patient or healthcare provider, allowing for accurate reference and identification within the EHR system.</p>   |
| ObsRequests..Parent.parentsPlacerOrderNumber.namespaceId     | String | <p>The namespaceId member of String Type in the HL7_EI Type is used to uniquely identify the namespace associated with the entity identifier. It is used in EHR software to provide context and ensure proper identification of the entity represented by the entity identifier.</p>         |
| ObsRequests..Parent.parentsPlacerOrderNumber.universalId     | String | <p>The universalId member of the HL7_EI Type is a unique identifier assigned to a specific entity within the electronic health record (EHR) system. It is used to uniquely identify the entity within the system and may be used for data retrieval, tracking, and integration purposes.</p> |
| ObsRequests..Parent.parentsPlacerOrderNumber.universalIdType | HL7_ID | <p>The universalIdType member of the HL7_ID Type in the EHR software is used to specify the type or format of the universal identifier (universalId) value.</p>  |

|   |                  |  |
|---|------------------|--|
| ObsRequests..Parent.parentsPlacerOrderNumber.complete | Boolean          | The complete member of the Boolean Type in the HL7_EI Type is used to indicate whether the entity identifier is complete or not.   |
| ObsRequests..Parent.parentsFillerOrderNumber          | HL7_EI           | The parentsFillerOrderNumber member of the HL7_EI Type is a string value that represents the unique identifier for the filler order number of the parent order. It is used to link or reference the current order to its parent order within the EHR software. |
| ObsRequests..Parent.complete                          | Boolean          | The complete member of the Boolean Type in the HL7_CM_EIP Type is used to indicate whether the associated order is complete or not.  |
| ObsRequests..PerformingOrg                            | OrganizationType | The PerformingOrg member of OrganizationType is used to store information about the organization that performs the lab test or procedure for the given ObservationRequest.   |
| Provider  | ProviderType     | The Provider member of the ProviderType Type in the BasicOrder Type is used to represent the healthcare provider   |

|                   |                  |   |
|-------------------|------------------|---|
|                   |                  | associated with the order. It includes information such as the provider's personal details, the assigning authority for their credentials, and their employee ID.   |
| EnteredBy         | ProviderType     | The EnteredBy member of ProviderType represents the provider who entered the Lab Order into the EHR software.   |
| EnterersLocation  | OrganizationType | The EnterersLocation member of the OrganizationType type in the BasicOrder type represents the location of the person who entered the lab order in the electronic health record (EHR) system.                               |
| ReasonNotDoneCode | String           | The ReasonNotDoneCode member is used to indicate the reason why a particular lab order has not been completed or performed. It provides a code that represents the specific reason for the non-completion of the lab order. |



## Lab Result - "ehr\_file" CSV Export

The ehr\_file table is used to store lab results in an electronic health record (EHR) system. It contains information such as the patient ID, the type of lab result, the date and time of the lab result, the actual data of the lab result, the last modified date and time, the employee ID associated with the lab result, a flag indicating if it is an educational resource for patient education, the date and time when the educational resource was identified, the location ID where the lab result was taken/uploaded, a flag indicating if it has been uploaded to the patient's record, the date and time when it was uploaded, a unique identifier for the insertion operation, the date and time when it was created, and a sub-type for further categorization of the lab result.

| Column Name            | Data Type                   | Description   | Extraction Method               |
|------------------------|-----------------------------|---|---------------------------------|
| fid                    | int                         | The fid column is a unique identifier for each file in the EHR system.  | CSV                             |
| acctid                 | int                         | The acctid column is a unique identifier for a patient in the database.   | CSV                             |
| type                   | int                         | The type column represents the type of the electronic health record file.   | CSV                             |
| datet                  | datetime<br>default<br>NULL | The datet column stores the date and time associated with the file in the EHR system.   | CSV                             |
| data                   | longblob                    | The 'data' column is a binary data type that stores large objects such as files or documents associated with electronic health records. | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the file was last modified.   | CSV                             |
| empid                  | int                         | The empid column stores the unique employee ID associated with the entry in the database table.   | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | ident_pat_edu_rsrc: Indicates whether the   | CSV                             |

|                             |                             |  |     |
|-----------------------------|-----------------------------|--|-----|
|                             |                             | file is associated with patient education resources.   |     |
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column is the date and time when the identification of patient educational resources was last modified for the file in the EHR system. | CSV |
| locid                       | int                         | The locid column is a unique identifier for a location in the database.  | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for the patient.  | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the file was uploaded for the patient.  | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier that is automatically generated and assigned to each record when it is inserted into the ehr_file table.                 | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the record was created.  | CSV |
| sub_type                    | int                         | The sub_type column represents the subtype of the file stored in the ehr_file table.   | CSV |

## LabResult Type

The LabResult type is used to store information related to laboratory test results for patients. It includes details such as the software vendor, order request, specimen, patient information, and a list of observation requests. It also includes a property for identifying the specific laboratory where the test was performed. A LabResult is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name            | Type                    | Description   |
|------------------------|-------------------------|---|
|                        | LabResult               | The member "Patient" of the LabResult Type is used to store information about the patient for whom the lab result is recorded. It contains details such as the patient's name, demographic information, and other relevant patient-specific data.   |
| SoftwareVendor         | LabResultSoftwareVendor | The SoftwareVendor member in the LabResultSoftwareVendor Type is used to store information about the vendor or manufacturer of the EHR software used to generate the lab results. It might include details such as the organization name, release number, product name, unique identifier, and installation date of the software. |
| SoftwareVendor.OrgName | String                  | The OrgName member of String Type in the LabResultSoftwareVendor Type represents the name of the organization that  |

|                              |                       |  |
|------------------------------|-----------------------|--|
|                              |                       | developed or provided the EHR software.  |
| SoftwareVendor.ReleaseNumber | String                | The ReleaseNumber member of the LabResultSoftwareVendor Type represents the version number or release number of the EHR software used to generate the lab result. It is a string that identifies the specific version or release of the EHR software that was involved in processing the lab result. |
| SoftwareVendor.ProductName   | String                | The ProductName member of the LabResultSoftwareVendor Type is a String that represents the name of the software product used for generating the lab result.  |
| SoftwareVendor.ID            | String                | The ID member of type String in the LabResultSoftwareVendor type is used to store a unique identifier for the software vendor.   |
| SoftwareVendor.InstallDate   | DateTime              | The InstallDate member of DateTime type in the LabResultSoftwareVendor class represents the date when the software vendor's product was installed in the EHR system.   |
| OrderRequest                 | LabResultOrderRequest | The OrderRequest member of the LabResultOrderRequest Type is used to store   |

|                                    |         |  |
|------------------------------------|---------|--|
|                                    |         | information related to the order request for a lab result. It includes details such as the order control, the group number, the provider, the facility, the order numbers, the status, the date, notes, and the person who entered the order. This member is crucial for tracking and managing lab test orders within an EHR software. |
| OrderRequest.OrderControl          | HL7_ID  | The OrderControl member of the HL7_ID type in the LabResultOrderRequest is used to indicate the control code for the order request in an HL7 message.  |
| OrderRequest.OrderControl.value    | String  | The value member of the String Type in the HL7_ID Type is used to store the actual value of an identifier, such as a patient ID or a laboratory test ID. It is used to uniquely identify a specific entity in the healthcare system.   |
| OrderRequest.OrderControl.complete | Boolean | The complete member of the Boolean type in the HL7_ID type is used to indicate whether the value of the HL7_ID is complete or not.   |
| OrderRequest.PlacerGroupNumber     | HL7_EI  | The PlacerGroupNumber member of the HL7_EI Type in the LabResultOrderRequest Type is a unique identifier for a group or batch of lab test orders that were   |

|   |        |  |
|---|--------|--|
|   |        | placed together. It is used to associate multiple lab tests that are part of the same order or request.  |
| OrderRequest.PlacerGroupNumber.entityIdentifier | String | The entityIdentifier member of the HL7_EI Type in the LabResult represents the entity identifier of a healthcare entity, such as a facility, department, or system. It is used to uniquely identify the entity within the healthcare system and is typically provided in the context of an HL7 message exchange. |
| OrderRequest.PlacerGroupNumber.namespaceId      | String | The namespaceId member of the String Type in the HL7_EI Type is used to identify a specific namespace or domain associated with the entity represented by the HL7_EI object. It could be used to indicate the organization or system that owns or manages the entity.  |
| OrderRequest.PlacerGroupNumber.universalId      | String | The universalId member of the HL7_EI Type is a unique identifier that represents a specific entity within the EHR software. It is used to uniquely identify and reference the entity when exchanging or retrieving data within the EHR system.   |
| OrderRequest.PlacerGroupNumber.universalIdType  | HL7_ID | The universalIdType member of the HL7_ID Type is used to indicate  |

|   |              |  |
|---|--------------|--|
|   |              | the type or format of the universalId in the HL7_EI Type. It specifies how the ID is structured or what standard it follows, such as an HL7 OID or a UUID format.  |
| OrderRequest.PlacerGroupNumber.complete | Boolean      | The complete member of the Boolean Type in the HL7_EI Type indicates whether the HL7_EI object is complete or not. It is used to determine if all the necessary information for the entity identifier has been provided or if there are missing fields.  |
| OrderRequest.Provider                   | ProviderType | The Provider member of ProviderType is used to store information about the healthcare provider who placed the lab order request in an electronic health record (EHR) system.   |
| OrderRequest.Provider.Provider          | PersonType   | The Provider member of the PersonType Type in the ProviderType Type is used to store information about the healthcare provider associated with the lab result. This includes details such as the provider's name, ID, assigning authority, address, phone number, date of birth, gender, race, and any additional notes. |
| OrderRequest.Provider.Provider.Name     | NameType     | The Name member of NameType is used to store the name of a person in   |

|   |        |   |
|---|--------|---|
|   |        | the EHR software. It includes fields for the family name, surname, given name, second name or initial, suffix, prefix, and name type code.  |
| OrderRequest.Provider.Provider.Name.FamilyName          | String | The FamilyName member of String Type in the NameType Type represents the last name or surname of an individual. It is used to store the family name or surname of the patient in the LabResult object within an EHR software. |
| OrderRequest.Provider.Provider.Name.Surname             | String | The Surname member of the String Type in the NameType Type represents the last name or family name of a person. It is used to store the surname of a patient in the context of an electronic health record (EHR) software.    |
| OrderRequest.Provider.Provider.Name.GivenName           | String | The GivenName member of type String in the NameType class represents the first or given name of an individual. It is used to store the first name of a person in the context of electronic health record (EHR) software.      |
| OrderRequest.Provider.Provider.Name.SecondNameOrInitial | String | The SecondNameOrInitial member of the NameType Type is a string that represents the second name or initial of a person. It is commonly used in EHR software to store the middle name or middle                                |



|  |        |  |
|--|--------|--|
|  |        | initial of a patient or individual.  |
| OrderRequest.Provider.Provider.Name.Suffix       | String | The Suffix member of the NameType Type in the EHR software is used to store additional name information such as titles, degrees, or professional designations that come after a person's name.   |
| OrderRequest.Provider.Provider.Name.Prefix       | String | The Prefix member of the String Type in the NameType Type is used to store a prefix or title that precedes a person's name, such as "Dr.", "Mr.", or "Mrs.".   |
| OrderRequest.Provider.Provider.Name.NameTypeCode | String | The NameTypeCode member of the NameType Type is used to indicate the code or identifier associated with the type of name used for a person.  |
| OrderRequest.Provider.Provider.ID                | String | The ID member of String Type in the PersonType Type is used to store the unique identifier of a person, such as a patient, within an EHR system.   |
| OrderRequest.Provider.Provider.IDType            | String | The IDType member of String Type in the PersonType Type is used to specify the type or format of the ID property in the PersonType object. It could be used to indicate whether the ID is a social security number, driver's license number, or any other type of identification |

|   |                    |   |
|---|--------------------|---|
|   |                    | format used by the EHR software.  |
| OrderRequest.Provider.Provider.AssigningAuthority             | AssigningAuthority | The AssigningAuthority member of the AssigningAuthority Type in the PersonType Type is used to store information about the assigning authority responsible for assigning unique identifiers to patients in the electronic health record (EHR) system.                             |
| OrderRequest.Provider.Provider.AssigningAuthority.NamespaceID | String             | The NamespaceID member of type String in the AssigningAuthority class is used to identify the namespace or domain in which the unique identifier (UID) is defined. It provides context or scope to the UID and helps to differentiate it from other UIDs in different namespaces. |
| OrderRequest.Provider.Provider.AssigningAuthority.UID         | String             | The UID member of the AssigningAuthority Type is a unique identifier associated with the namespace of the assigning authority. It is used to uniquely identify the assigning authority within the EHR software system.  |
| OrderRequest.Provider.Provider.AssigningAuthority.UIDType     | String             | The UIDType member of the String Type in the AssigningAuthority Type is used to identify the type of Unique Identifier (UID) being used. This could include specifying whether  |

|   |             |   |
|---|-------------|---|
|   |             | the UID is a UUID, HL7, or another specific format.   |
| OrderRequest.Provider.Provider.Address                  | AddressType | The Address member of the AddressType type in the PersonType type is used to store the address information of a patient in an Electronic Health Record (EHR). This includes details such as the street, city, state, zip code, and country of the patient's residence.  |
| OrderRequest.Provider.Provider.Address.Street           | String      | The Street member of the AddressType type is a property that stores the street address of a person. It is used to capture the specific location where someone resides or where a facility is located.   |
| OrderRequest.Provider.Provider.Address.OtherDesignation | String      | The OtherDesignation member of String Type in the AddressType type is used to store additional information or details about the address that may not be captured by the other address fields. It can be used to provide specific instructions, special notes, or any other relevant information related to the address. |
| OrderRequest.Provider.Provider.Address.City             | String      | The City member of type String in the AddressType is used to store the name of the city in which the address is located for the patient's residence or  |

|   |        |  |
|---|--------|--|
|   |        | healthcare facility.   |
| OrderRequest.Provider.Provider.Address.State            | String | The State member of String Type in the AddressType Type is used to store the state or province information of a specific address in the context of an Electronic Health Record (EHR) software. |
| OrderRequest.Provider.Provider.Address.Zip              | String | The Zip member of type String in the AddressType type is used to store the postal code or ZIP code for a specific address.   |
| OrderRequest.Provider.Provider.Address.Type             | String | The Type member of String Type in the AddressType Type is used to specify the type or category of the address, such as "home", "work", or "mailing".   |
| OrderRequest.Provider.Provider.Address.Text             | String | The Text member of the String Type in the AddressType is used to store additional information or comments related to the address of a person.  |
| OrderRequest.Provider.Provider.Address.Country          | String | The Country member of type String in the AddressType is used to store the country name associated with an address in the lab result.   |
| OrderRequest.Provider.Provider.Address.CountyParishCode | String | The CountyParishCode member of String Type in the AddressType is used to store the code that represents the county or  |

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|  |             | parish associated with an address in an EHR software.   |
| OrderRequest.Provider.Provider.PhoneNumber           | PhoneType   | The PhoneNumber member of the PhoneType Type is used to store the phone number of a person in the EHR software.   |
| OrderRequest.Provider.Provider.PhoneNumber.Area Code | String      | The "AreaCode" member of the PhoneType type is a string that represents the area code of a phone number. It is used to store the three-digit code that identifies the geographic region associated with the phone number. |
| OrderRequest.Provider.Provider.PhoneNumber.Number    | String      | The Number member of String Type in the PhoneType Type is a property that represents the numerical portion of a phone number. It is used to store the actual digits of a phone number, excluding the area code.           |
| OrderRequest.Provider.Provider.DateOfBirth           | DateTime    | The DateOfBirth member of DateTime Type in the PersonType Type is used to represent the date of birth of a person.  |
| OrderRequest.Provider.Provider.Gender                | String      | The Gender member of type String in the PersonType class is used to store the gender information of a patient in an electronic health record (EHR) system.  |
| OrderRequest.Provider.Provider.Race                  | HL7CodeType | The Race member of  |

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|---|--------|---|
|   |        | HL7CodeType Type within the PersonType Type is used to store the race or ethnicity of a patient in an electronic health record (EHR) system.  |
| OrderRequest.Provider.Provider.Race.Code                | String | The Code member of the String type in the HL7CodeType is used to represent a specific code associated with a particular concept or item in the healthcare domain. It is commonly used for standardized identification and classification of medical conditions, procedures, medications, and other healthcare-related entities. |
| OrderRequest.Provider.Provider.Race.Name                | String | The Name member of the String Type in the HL7CodeType is used to store the name of the code or value associated with the HL7 code.  |
| OrderRequest.Provider.Provider.Race.CodingSystem        | String | The CodingSystem member of the HL7CodeType Type is a string that represents the coding system used for the code value in the HL7 code. It provides information about the specific coding system that the code belongs to, such as LOINC or SNOMED-CT.   |
| OrderRequest.Provider.Provider.Race.CodingSystemVersion | String | The CodingSystemVersion member of type String in the HL7CodeType class is used to specify the version   |

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|   |        | of the coding system that is being used for the HL7 code.   |
| OrderRequest.Provider.Provider.Race.AlternateCode         | String | The AlternateCode member in the HL7CodeType type is a string that represents an alternate code associated with a particular code. It may be used to provide additional information or alternate coding systems for the code value.  |
| OrderRequest.Provider.Provider.Race.AlternateName         | String | The AlternateName member of the HL7CodeType type in the LabResult class is used to provide an alternative name for the code. This can be useful in cases where the standard name for a code may not be universally recognized or understood, allowing for a more descriptive or commonly known name to be used instead. |
| OrderRequest.Provider.Provider.Race.AlternateCodingSystem | String | The AlternateCodingSystem member of String Type in the HL7CodeType is used to store an alternate coding system for a specific code. It provides an alternative way to categorize or identify the data represented by the code, which can be useful in EHR software for interoperability and data exchange purposes.     |

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| OrderRequest.Provider.Provider.Race.AlternateCodingSystemVersion | String       | The AlternateCodingSystemVersion member is a string that represents an alternative version of the coding system used in the HL7CodeType. It is used to provide compatibility with different versions of the coding system for the purpose of interoperability and data exchange within the EHR software.                         |
| OrderRequest.Provider.Provider.Race.OriginalText                 | String       | The OriginalText member of the HL7CodeType type is used to store the original text description or narrative associated with a code. This allows for a more detailed and human-understandable description of the code that may not be captured in the other properties of the HL7CodeType, such as Code, Name, and AlternateCode. |
| OrderRequest.Provider.Provider.Notes                             | List<String> | The Notes member of the List<String> Type in the PersonType represents additional textual information or comments related to the person/patient.   |
| OrderRequest.Provider.Provider.Notes.                            | String       | The member of String Type in the List<String> Type is used to store a list of strings that represent data or information related to a specific aspect of the electronic health record (EHR) software. It could be  |



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|  |                    | used to store various types of data such as patient demographics, medical history, test results, or any other textual information relevant to the EHR.  |
| OrderRequest.Provider.AssigningAuthority | AssigningAuthority | The AssigningAuthority member of the AssigningAuthority Type is used to provide identification information for the healthcare provider, such as their unique identifier or namespace ID. It is used in conjunction with the ProviderType to associate the provider with a specific assigning authority in the EHR software. |
| OrderRequest.Provider.Empid              | Int32              | The Empid member of type Int32 in the ProviderType type is used to store the ID or identifier of the healthcare provider associated with the lab result.  |
| OrderRequest.Facility                    | OrganizationType   | The Facility member of OrganizationType represents the healthcare facility or institution associated with the lab result order request in the EHR software.   |
| OrderRequest.Facility.Name               | String             | The Name member of String Type in the OrganizationType Type is used to store the name of the organization.  |

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| OrderRequest.Facility.ID                 | String             | The ID member of String Type in the OrganizationType is used to store a unique identifier for the organization. It is used to identify the organization within the EHR software system.   |
| OrderRequest.Facility.IDType             | String             | The IDType member of the OrganizationType Type is used to specify the type or format of the ID associated with the organization. It could indicate whether the ID is a Social Security Number, Tax ID, or another specific identifier format.   |
| OrderRequest.Facility.TypeCode           | String             | The TypeCode member of the OrganizationType type is used to specify the type or category of the organization.   |
| OrderRequest.Facility.AssigningAuthority | AssigningAuthority | The AssigningAuthority member of the AssigningAuthority Type is used to specify the unique identification information for an organization in the context of electronic health records (EHR). It includes the namespace ID, unique ID, and type of unique ID for the organization. This information helps identify and differentiate the organization from others within the EHR system. |
| OrderRequest.Facility.Address            | AddressType        | The Address member of the AddressType type is used to store the address   |

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|                                |           | information of an organization within an EHR software.   |
| OrderRequest.Facility.Phone    | PhoneType | The Phone member of the PhoneType Type in OrganizationType is used to store the phone number of a healthcare organization.   |
| OrderRequest.PlacerOrderNumber | String    | The PlacerOrderNumber member of the LabResultOrderRequest Type is a string that represents a unique identifier assigned to the order by the ordering provider or system. It is used to track and identify the specific order within the EHR software system. |
| OrderRequest.FillerOrderNumber | String    | The FillerOrderNumber member of type String in the LabResultOrderRequest class is used to store the order number assigned by the lab or facility that is responsible for performing the lab test or providing the lab result.                                |
| OrderRequest.Status            | String    | The Status member of String Type in the LabResultOrderRequest Type is used to indicate the current status or progress of the lab order request.  |
| OrderRequest.Date              | DateTime  | The Date member of the DateTime Type in the LabResultOrderRequest is   |

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|  |              | used to store the date when the order request for the lab result was made.  |
| OrderRequest.Notes                           | List<String> | The Notes member of List<String> Type in the LabResultOrderRequest Type is used to store additional information or comments related to the lab order request.   |
| OrderRequest.EnteredBy                       | Provider     | The EnteredBy member of the Provider Type in the LabResultOrderRequest is used to capture the information of the provider who entered the lab result request into the EHR software system.  |
| OrderRequest.EnteredBy.DataTypeField         | DataType     | The DataTypeField member of the DataType Type in the Provider Type is used to specify the type of data for the provider. It could indicate whether the provider is the one who entered the lab result, ordered the lab test, administered the lab test, is associated with the location where the lab test was administered, or if no specific data type is applicable. |
| OrderRequest.EnteredBy.DataTypeField.value__ | Int32        | The value__ member of the Int32 Type in the DataType Type is used to store the underlying integer value of the DataType enumeration.  |

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| OrderRequest.EnteredBy.DataTypeField.EnteredBy        | DataType | The "EnteredBy" member of the DataType type is used to store information about the person who entered the lab result into the EHR software.  |
| OrderRequest.EnteredBy.DataTypeField.OrderingProvider | DataType | The OrderingProvider member of the DataType Type is used to store information about the healthcare provider who placed the order for the lab result.   |
| OrderRequest.EnteredBy.DataTypeField.AdminProvider    | DataType | The AdminProvider member of the DataType Type is used to store information about the provider who administered the lab result in the Electronic Health Record (EHR) software.  |
| OrderRequest.EnteredBy.DataTypeField.AdminLocation    | DataType | The AdminLocation member of the DataType Type is used to store information about the location where the administrative tasks related to the lab result are carried out. This could include the name or identifier of the specific location within the healthcare organization where the lab result is being processed or reviewed. |
| OrderRequest.EnteredBy.DataTypeField.None             | DataType | The "None" member of the DataType type is used to represent a lack of data or an absence of a specific data type within the  |

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|  |                         | LabResult object. It is used when there is no specific information available for the EnteredBy, OrderingProvider, AdminProvider, or AdminLocation fields within the LabResult object.  |
| OrderRequest.EnteredBy.Person          | ExtendedCompositePerson | The Person member of the ExtendedCompositePerson Type in the Provider Type is used to store information about a healthcare provider, such as their personal details (name, ID number, etc.), their role within the healthcare system, and their affiliation with a particular assigning authority.   |
| OrderRequest.EnteredBy.Person.IdNumber | String                  | The IdNumber member of String Type in the ExtendedCompositePerson Type is used to store a unique identifier for a person, such as a patient identification number or an identification number assigned by a healthcare organization. This identifier is used to uniquely identify a person within the EHR system and may be linked to other relevant information or records associated with that person. |
| OrderRequest.EnteredBy.Person.IdType   | String                  | The IdType member of the String Type in the ExtendedCompositePerson Type is used to specify the  |

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|   |            | type of identification associated with the person. This could include types such as Social Security Number (SSN), driver's license number, passport number, or any other relevant identification type used in the healthcare system.   |
| OrderRequest.EnteredBy.Person.LastName          | FamilyName | The LastName member of the FamilyName Type is used to store the surname or last name of a person in the EHR software.  |
| OrderRequest.EnteredBy.Person.LastName.Surname  | String     | The Surname member of the FamilyName Type is a string that represents the last name or family name of a person. It is used to store and retrieve the surname of a patient in the electronic health record (EHR) software.  |
| OrderRequest.EnteredBy.Person.LastName.complete | Boolean    | The `complete` member of Boolean Type in the `FamilyName` Type is used to indicate whether the family name of a person is complete or not. It represents whether all the necessary information related to the family name has been provided or if it is missing any details. |
| OrderRequest.EnteredBy.Person.FirstName         | String     | The FirstName member of type String is used to store the first name of a person within the ExtendedCompositePerson   |

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|  |                        | type.  |
| OrderRequest.EnteredBy.Person.GivenNamesOther    | String                 | The GivenNamesOther member of String Type in the ExtendedCompositePerson Type is used to store additional given names or middle names of the person. It provides a way to include multiple given names or middle names for a person in the electronic health record. |
| OrderRequest.EnteredBy.Person.Prefix             | String                 | The Prefix member of type String in the ExtendedCompositePerson class is used to store a prefix or title, such as "Mr.", "Mrs.", or "Dr.", that is associated with a person's name.  |
| OrderRequest.EnteredBy.Person.Suffix             | String                 | The Suffix member of type String in the ExtendedCompositePerson represents the suffix or title that may be added to a person's name, such as "Jr." or "III". It is used to accurately identify and represent a person's full name in the EHR software.               |
| OrderRequest.EnteredBy.Person.NameType           | String                 | The NameType member of String Type in the ExtendedCompositePerson Type is used to indicate the type or category of the person's name, such as "official" or "maiden".  |
| OrderRequest.EnteredBy.Person.AssigningAuthority | HierarchicalDesignator | The Assigning Authority member of the  |



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|   |        | <p>HierarchicalDesignator type in the ExtendedCompositePerson type is used to specify the authority that assigns the unique identifier for the person.</p>   |
| <p>OrderRequest.EnteredBy.Person.AssigningAuthority.NamespaceId</p>     | String | <p>The NamespaceId member of String Type in the HierarchicalDesignator Type is a unique identifier that represents the namespace or domain to which the HierarchicalDesignator belongs. It is used to define and categorize the different hierarchical designators within the EHR software.</p>          |
| <p>OrderRequest.EnteredBy.Person.AssigningAuthority.UniversalId</p>     | String | <p>The UniversalId member of type String in the HierarchicalDesignator class is used to uniquely identify a hierarchical designator in an electronic health record (EHR) system. It represents a unique identifier assigned to a specific healthcare organization or system within the EHR software.</p> |
| <p>OrderRequest.EnteredBy.Person.AssigningAuthority.UniversalIdType</p> | String | <p>The UniversalIdType member of String Type in the HierarchicalDesignator Type is used to identify the type of Universal ID being used in the context of the EHR software. It provides information about the format or standard used for the Universal ID, such</p>                                     |

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|   |         | as HL7 or DICOM.   |
| OrderRequest.EnteredBy.Person.AssigningAuthority.complete | Boolean | The complete member of Boolean Type in the HierarchicalDesignator class is used to indicate whether the hierarchical designator is complete or not. It is a flag that determines if all the necessary information for the hierarchical designator has been provided.   |
| OrderRequest.EnteredBy.Person.complete                    | Boolean | The complete member of Boolean Type in the ExtendedCompositePerson Type indicates if the person's information is complete or not. It is used to ensure that all the necessary information for the person is captured in the EHR software before processing or displaying the data.                             |
| OrderRequest.EnteredBy.type                               | Type    | The type member of the Type Type in the Provider Type is used to categorize the type of provider in the EHR software.  |
| OrderRequest.EnteredBy.type.value__                       | Int32   | The value__ member of the Int32 Type in the Type Type is used for internal identification or representation of a specific type within the EHR software. It is used as an integer value to uniquely identify different types of data or entities within the system, such as Provider, Location, Identification, |

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|  |      | and so on.   |
| OrderRequest.EnteredBy.type.Provider       | Type | The Provider member of the Type Type is used to store information about the healthcare provider who ordered or conducted the lab test.   |
| OrderRequest.EnteredBy.type.Provider2      | Type | The Provider2 member of the Type Type in an EHR software is used to store information about a secondary healthcare provider, such as a specialist or consultant, who is involved in the patient's care.                            |
| OrderRequest.EnteredBy.type.Location       | Type | The Location member of Type Type is used to store information related to the location of a healthcare provider or facility. This could include details such as the address, contact information, and other location-specific data. |
| OrderRequest.EnteredBy.type.Identification | Type | The Identification member of the Type Type is used to store identification information related to the lab result data in the EHR software.   |
| OrderRequest.EnteredBy.type.ContactInfo    | Type | The ContactInfo member of the Type Type is used to store contact information for a person, such as their phone number, address, and email.   |
| OrderRequest.EnteredBy.type.Composite      | Type | The Composite member of the Type Type is a type that   |

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|  |      | represents a composite data structure used in Electronic Health Record (EHR) software. It is used to store and organize multiple related data elements into a single object.  |
| OrderRequest.EnteredBy.type.ID_TB          | Type | The ID_TB member of the Type Type is used to represent a Tuberculosis Identification.   |
| OrderRequest.EnteredBy.type.ID_CmbBx       | Type | The ID_CmbBx member of Type Type is used to represent a combination box or dropdown menu for selecting an identifier or code in electronic health records (EHR) software.   |
| OrderRequest.EnteredBy.type.CE             | Type | The CE member of Type Type is used to represent a Controlled Enumeration value in the electronic health record (EHR) software. It may be used to store standardized codes or values for various attributes or characteristics related to patient information, such as blood type, allergy status, or medication dosage. |
| OrderRequest.EnteredBy.type.PersonLocation | Type | The PersonLocation member of the Type Type is used to store information about the location of a person within the EHR system. It could contain details such as the physical location of the person, their assigned  |

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|                                    |       | healthcare provider, or any other relevant location-related information.   |
| OrderRequest.EnteredBy.type.CM_NDL | Type  | The CM_NDL member of the Type Type in the LabResult data model is used to store information related to the name and description of a lab result test.  |
| OrderRequest.EnteredBy.type.CM_EIP | Type  | CM_EIP is a member of the Type Type and it is used to store information related to Electronic Immunization Records in an EHR software.   |
| OrderRequest.EnteredBy.type.EI     | Type  | The EI member of the Type Type is used to represent an Electronic Immunization record in the EHR software.   |
| OrderRequest.EnteredBy.type.HD     | Type  | The HD member of the Type Type is used to represent a Health Document.   |
| OrderRequest.EnteredBy.lab         | Lab   | The lab member of the Lab Type is used to specify the laboratory that processed the lab result.  |
| OrderRequest.EnteredBy.lab.value__ | Int32 | The value__ member of the Int32 Type, which is a member of the Lab Type, is used to represent the underlying numeric value of the Lab enum. It is an automatically generated member that provides a unique identifier for each enum value. |

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| OrderRequest.EnteredBy.lab.None            | Lab     | The None member of the Lab Type is used to indicate that no specific lab has been assigned or identified for the Lab Result. It signifies that the Lab Result does not correspond to any particular lab facility or test.  |
| OrderRequest.EnteredBy.lab.EllkayProgenity | Lab     | The EllkayProgenity member of the Lab Type is used to represent a specific lab test or analysis provided by the Ellkay Progenity software vendor. It is used to store information related to the lab result generated by the EllkayProgenity system for a patient. |
| OrderRequest.EnteredBy.empid2              | Int32   | The empid2 member of Int32 Type in the Provider Type is used to store the identifier of the healthcare provider or employee associated with the lab result.  |
| OrderRequest.EnteredBy.complete            | Boolean | The complete member of the Boolean type in the Provider class is used to indicate whether the provider's information is complete or not.   |
| OrderRequest.EnteredByLocation             | HL7_PL  | The EnteredByLocation member of the HL7_PL type in the LabResultOrderRequest is used to store information about the location where the order was entered by the provider in an   |

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|   |                        | Electronic Health Record (EHR) system.  |
| OrderRequest.EnteredByLocation.pointOfCare    | String                 | The pointOfCare member of type String in the HL7_PL type is used to represent the specific location within a healthcare facility where a patient is being treated or cared for.             |
| OrderRequest.EnteredByLocation.room           | String                 | The "room" member of type String in the HL7_PL type is used to store the room number or identifier of a person's location within a healthcare facility.                                     |
| OrderRequest.EnteredByLocation.bed            | String                 | The "bed" member of the HL7_PL Type in the LabResultSpecimen is used to store the identifier or name of the bed where the patient is located within a healthcare facility.                  |
| OrderRequest.EnteredByLocation.facility       | HierarchicalDesignator | The facility member of the HierarchicalDesignator type in the HL7_PL type is used to represent the facility or organization where the patient's lab result was generated or processed.      |
| OrderRequest.EnteredByLocation.locationStatus | String                 | The locationStatus member of type String in the HL7_PL type is used to represent the current status or condition of the location, such as "occupied", "available", "under construction", or |

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|  |        | any other relevant status.  |
| OrderRequest.EnteredByLocation.personLocationType  | String | The personLocationType member of the HL7_PL Type is a string that represents the type or category of the person's location within the healthcare facility. It could indicate whether the person is a patient, healthcare provider, visitor, or staff member, among other possibilities. |
| OrderRequest.EnteredByLocation.building            | String | The "building" member of the HL7_PL Type represents the name or identifier of the building where the location is situated within the healthcare facility. It is used to indicate the specific physical location within the facility for efficient patient tracking and management.      |
| OrderRequest.EnteredByLocation.floor               | String | The floor member of the HL7_PL Type in the LabResult data structure is used to store the floor number or level of the location within a healthcare facility where the specimen or patient is located.   |
| OrderRequest.EnteredByLocation.locationDescription | String | The locationDescription member of the HL7_PL Type is a string that provides a description of the location. This description is used to provide additional details   |



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|   |                   | or clarification about the physical location mentioned in the HL7_PL object.   |
| OrderRequest.EnteredByLocation.complete | Boolean           | The complete member of Boolean type in the HL7_PL Type is used to indicate the completion status of the person's location. It is used to track whether the person's location information is complete or not in the electronic health record software.  |
| Specimen                                | LabResultSpecimen | The Specimen member of the LabResultSpecimen Type is used to provide information about the specimen collected for a lab test. It includes details such as the ID of the specimen, the start and end date/time of specimen collection, any reject reasons, the quality of the specimen, appropriateness of the specimen for testing, and any specific conditions related to the specimen collection. This information is important for accurately interpreting and analyzing the lab test results within the Electronic Health Record software. |
| Specimen.ID                             | HL7CodeType       | The ID member of the HL7CodeType Type in the LabResultSpecimen Type represents a unique identifier for the specimen  |

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|                                  |                   | in the electronic health record (EHR) system. It is used to uniquely identify the specific specimen associated with the lab result.   |
| Specimen.CollectionDateTimeStart | DateTime          | The CollectionDateTimeStart member of DateTime Type in the LabResultSpecimen Type represents the date and time when the specimen for the lab result was collected. It is used to track the exact moment when the specimen was obtained from the patient for testing purposes. |
| Specimen.CollectionDateTimeEnd   | DateTime          | The CollectionDateTimeEnd member is used to store the end date and time of specimen collection in a LabResultSpecimen object in an electronic health record (EHR) system. It represents the point at which the collection of the specimen is completed.                       |
| Specimen.RejectReasons           | List<HL7CodeType> | The RejectReasons member of the LabResultSpecimen type is used to store a list of rejection reasons for a laboratory specimen.  |
| Specimen.RejectReasons.          | HL7CodeType       | The member of HL7CodeType type in the List<HL7CodeType> type is used to store various codes related to medical terminology, such as   |

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|                          |                   | diagnostic codes, procedure codes, or medication codes. The different properties within HL7CodeType provide information about the code, its name, the coding system used, and any alternate codes or names associated with it. This allows for standardized and consistent representation of medical information within the electronic health record (EHR) system. |
| Specimen.Quality         | HL7CodeType       | The Quality member of the HL7CodeType in the LabResultSpecimen type is used to indicate the quality of the specimen collected for the lab test.  |
| Specimen.Appropriateness | HL7CodeType       | The Appropriateness member of the HL7CodeType Type in the LabResultSpecimen Type is used to indicate the appropriateness of the lab result specimen collection.  |
| Specimen.Conditions      | List<HL7CodeType> | The Conditions member of the List<HL7CodeType> type is used to store information about any specific conditions or circumstances related to the lab specimen, such as special handling instructions, transport conditions, or other relevant details.   |

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| Patient              | PersonType               | The Patient member of the PersonType Type in the LabResult Type represents the information of the patient for whom the lab result is generated. It includes details such as name, ID, ID type, assigning authority, address, phone number, date of birth, gender, race, and any additional notes for the patient. This information is used to accurately identify and associate the lab result with the specific patient in the electronic health record (EHR) system. |
| ObservationRequests  | List<ObservationRequest> | The ObservationRequests member of the LabResult Type is used to store information about the specific laboratory tests or observations requested for a patient. It provides details such as the order number, service ID, observation time, clinical information, provider information, status, reasons for study, results, notes, specimen details, diagnoses, and other relevant information related to each observation request.                                     |
| ObservationRequests. | ObservationRequest       | The member of the ObservationRequest type within the List<ObservationRequest> type is used to store  |

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|   |                  | information about a specific observation request, such as the order number, service ID, observation time, clinical information, provider, status, reasons for study, results, notes, specimen information, diagnostics, collectors, technicians, diagnosis service section ID, parent entity, and performing organization.                     |
| ObservationRequests..OrderNumber              | EntityIdentifier | The OrderNumber member of the EntityIdentifier Type in the ObservationRequest Type is used to uniquely identify an order or request for a lab test or procedure within an electronic health record (EHR) system. It may contain an alphanumeric code or identifier that is generated by the EHR software or assigned by a healthcare provider. |
| ObservationRequests..OrderNumber.EntityID     | String           | The EntityID member of the EntityIdentifier Type is a unique identifier for an entity within the EHR system. It is used to uniquely identify a specific entity, such as a patient or a laboratory, within the EHR software.  |
| ObservationRequests..OrderNumber.EntityIDType | String           | The EntityIDType member of type String in the EntityIdentifier class is used to indicate the type or format of the entity  |

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|  |                  | identifier, such as a patient ID or a unique identifier for a specific entity within the EHR software.  |
| ObservationRequests..OrderNumber.NamespaceID | String           | The NamespaceID member of the String Type in the EntityIdentifier Type is used to identify the namespace or domain from which the EntityID is originating. It provides a way to categorize and organize the EntityID within the EHR software system.                              |
| ObservationRequests..OrderNumber.UID         | String           | The UID member of the EntityIdentifier Type is a unique identifier that is used to uniquely identify a specific entity within the EHR software system. It is used for efficient data retrieval and referencing purposes within the software.                                      |
| ObservationRequests..OrderNumber.UIDType     | String           | The UIDType member of the EntityIdentifier class is a string type that represents the type or format of the unique identifier (UID) used within the EHR software. It could specify a standard or custom system for assigning and identifying unique entities within the software. |
| ObservationRequests..FillerOrderNumber       | EntityIdentifier | The FillerOrderNumber member of the EntityIdentifier Type is used to identify the order   |

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|  |                  | number assigned by the laboratory or healthcare provider filling the order request. It is used to track and correlate the specific order for a given observation request within the EHR software system.  |
| ObservationRequests..PlacerGroupNumber | EntityIdentifier | The PlacerGroupNumber member of the EntityIdentifier type in the ObservationRequest type is used to identify a group or batch of orders or specimens that are related or connected in some way. It is used to organize and track multiple orders or specimens that are linked together within the EHR software. |
| ObservationRequests..ServiceID         | HL7CodeType      | The ServiceID member of the HL7CodeType Type, which is a member of the ObservationRequest Type, represents the unique identifier for the specific service or test requested for the lab result.   |
| ObservationRequests..ObsTime           | DateTime         | The ObsTime member of the DateTime Type in the ObservationRequest Type is used to represent the time at which an observation or lab test was performed or requested.  |
| ObservationRequests..ObsTimeEnd        | DateTime         | The ObsTimeEnd member of the DateTime type in the ObservationRequest type is used to represent the end time of the  |

|                                      |                   |  |
|--------------------------------------|-------------------|--|
|                                      |                   | observation period for a particular lab test or procedure.   |
| ObservationRequests..ClinicalInfo    | HL7CodeType       | The ClinicalInfo member of the HL7CodeType type in the ObservationRequest type is used to store clinical information related to the lab test or study being requested.                                       |
| ObservationRequests..Provider        | ProviderType      | The Provider member of the ProviderType Type in the ObservationRequest Type is used to store information about the healthcare provider (such as a physician or nurse) who is associated with the lab result. |
| ObservationRequests..StatusTime      | DateTime          | The StatusTime member of DateTime Type in the ObservationRequest Type is used to record the date and time when the status of the observation request was updated or changed in the EHR software.             |
| ObservationRequests..Status          | String            | The Status member of type String in the ObservationRequest class is used to indicate the current status of the observation request, such as "pending", "completed", or "cancelled".                          |
| ObservationRequests..reasonsForStudy | List<HL7CodeType> | The `reasonsForStudy` member of the `ObservationRequest` type is used to store the reasons or indications for  |



|  |                         |   |
|--|-------------------------|---|
|  |                         | ordering the particular laboratory test or study. These reasons are represented as a list of `HL7CodeType` objects, which contain codes and descriptions related to the specific reasons for the study.   |
| ObservationRequests..Results                     | List<ObservationResult> | The Results member of the List<ObservationResult> type is used to store the actual observation results obtained from the lab tests conducted for a patient.   |
| ObservationRequests..Results.                    | ObservationResult       | The member "Value" of the ObservationResult type represents the actual value of the observation or test result.   |
| ObservationRequests..Results..ParentType         | ParentType              | The ParentType member of the ObservationResult Type is used to indicate the type of parent entity associated with the observation result. It specifies whether the result is associated with an immunization or an observation request or if it has no parent entity. |
| ObservationRequests..Results..ParentType.value__ | Int32                   | The value__ member of the Int32 Type in the ParentType Type is used as an internal representation of the enumeration value. It is an automatically generated member by the compiler and is used to assign a unique value to each enumeration                          |

|   |            |  |
|---|------------|--|
|   |            | member.  |
| ObservationRequests..Results..ParentType.None               | ParentType | The None member of the ParentType enum is used to indicate that a LabResult object does not have a parent type. It is used when there is no specific parent type associated with the LabResult, such as when the LabResult is not related to an immunization or an observation request.  |
| ObservationRequests..Results..ParentType.Immunization       | ParentType | The Immunization member of the ParentType Type is used to indicate that a lab result is related to an immunization. It is a flag or identifier used to categorize lab results specifically associated with immunization records in an electronic health record (EHR) software system.  |
| ObservationRequests..Results..ParentType.ObservationRequest | ParentType | The ObservationRequest member of ParentType Type is used to store information related to a specific observation request made by a healthcare provider for a patient's lab result. It includes details such as the specific observation being requested, any additional instructions or requirements, and other relevant information related to the lab test. |
| ObservationRequests..Results..AssignedCodeType              | CodeType   | The AssignedCodeType member of the CodeType Type is used to specify the  |

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|--|-----------------------------|---|
|  |                             | type or source of the assigned code for an observation result in the EHR software.  |
| ObservationRequests..Results..AssignedCodeType.value__ | Int32                       | The value__ member of the Int32 Type in the CodeType Type is used to represent an internal value or enumeration value for the CodeType enum. It is used to store a numeric representation of the enum value, which can be useful for various internal operations or comparisons within the EHR software.                      |
| ObservationRequests..Results..AssignedCodeType.None    | CodeType                    | The None member of the CodeType enum is used to indicate that there is no specific software vendor code associated with a particular lab result in the EHR software.  |
| ObservationRequests..Results..AssignedCodeType.ELLKAY  | CodeType                    | The ELLKAY member of the CodeType type is used to indicate that the LabResult data is generated by the ELLKAY software vendor.  |
| ObservationRequests..Results..IdentifierSelectionType  | Nullable<CodeSelectionType> | The IdentifierSelectionType member of the Nullable<CodeSelectionType> type in the ObservationResult class is used to identify the type of code selection for a particular observation result. It is used to specify whether the code for the observation result is selected from a predefined list or if it is a user-defined |

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|---|-------------|--|
|   |             | code.  |
| ObservationRequests..Results..ValueType | String      | The ValueType member of String type in the ObservationResult class is used to specify the data type or format of the value property of the observation result.   |
| ObservationRequests..Results..ObsID     | HL7CodeType | The ObsID member of the HL7CodeType type in the ObservationResult type is used to represent the identifier for a specific observation in the lab result.   |
| ObservationRequests..Results..ObsSubID  | String      | The ObsSubID member of type String in the ObservationResult class is used to specify a sub-identifier for a particular observation or result within a lab test. It provides additional information or context for the observation or result. |
| ObservationRequests..Results..Value     | String      | The Value member of String Type in the ObservationResult Type is used to store the actual value or result of the observation. It represents the specific measurement or data obtained from the lab test or observation being recorded.       |
| ObservationRequests..Results..Units     | HL7CodeType | The Units member of the HL7CodeType Type in the ObservationResult is used to represent the units of measurement associated   |

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|--|----------|---|
|  |          | with a specific observation or result. It provides information about the measurement scale or system used for the value of the observation result.  |
| ObservationRequests..Results..ReferenceRange | String   | The ReferenceRange member of type String in the ObservationResult class is used to store the range of values considered to be normal or expected for a specific observation.  |
| ObservationRequests..Results..Flag           | String   | The Flag member of the ObservationResult Type is used to indicate any abnormal or critical result of a laboratory test. It is a string value that provides additional information about the result, such as the severity or urgency of the abnormality. |
| ObservationRequests..Results..Status         | String   | The Status member in the ObservationResult Type is used to indicate the current status or condition of the observation result.  |
| ObservationRequests..Results..ObsTime        | DateTime | The ObsTime member of DateTime Type is used to represent the date and time at which the observation within the ObservationResult occurred.  |
| ObservationRequests..Results..AnalysisTime   | DateTime | The AnalysisTime member of the ObservationResult type in the LabResult data represents the time at which the laboratory   |

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|---|------------------|---|
|   |                  | analysis of the observation result was conducted. It is used to track and record the specific time at which the analysis took place for reference and auditing purposes in an Electronic Health Record (EHR) software system.   |
| ObservationRequests..Results..PerformingOrg         | OrganizationType | The PerformingOrg member of the OrganizationType type in the ObservationResult type is used to store information about the organization responsible for performing the lab test or analysis.  |
| ObservationRequests..Results..PerformingOrgDirector | PersonType       | The PerformingOrgDirector member of the PersonType Type in the ObservationResult Type is used to store the information of the director or supervisor of the performing organization responsible for performing the lab test or analysis. This information is important for tracking the responsible party for the lab result and ensuring accountability. |
| ObservationRequests..Results..Notes                 | List<String>     | The Notes member of List<String> Type in the ObservationResult Type is used to store any additional information or comments related to the observation result. It could include any extra details or annotations that are   |

|  |              |   |
|--|--------------|---|
|  |              | relevant to the interpretation or understanding of the result.  |
| ObservationRequests..Results..AbnormalFlags                    | List<HL7_ID> | The AbnormalFlags member of List<HL7_ID> in the ObservationResult Type is used to store the abnormal flags associated with a lab result.  |
| ObservationRequests..Results..AbnormalFlags.                   | HL7_ID       | The member "value" of the HL7_ID type is used to store the value of an HL7 ID, which is a unique identifier used in healthcare systems to reference specific entities such as patients, healthcare providers, or medical records. |
| ObservationRequests..Results..NatureOfAbnormalTest             | HL7_ID       | The NatureOfAbnormalTest member of the HL7_ID Type in the ObservationResult Type is used to indicate the nature or type of abnormality found in a test result.  |
| ObservationRequests..Results..DataLastObsNormalValues          | DateTime     | The DataLastObsNormalValues member of DateTime Type in the ObservationResult Type is used to store the date and time of the last observed normal values for the specific observation.   |
| ObservationRequests..Results..DataLastObsNormalValuesSpecified | Boolean      | The DataLastObsNormalValuesSpecified member of type Boolean in the  |

|  |        |   |
|--|--------|---|
|  |        | <p>ObservationResult class is used to indicate whether the DataLastObsNormalValues property has been specified or not. It provides a flag to determine if there is a specific value for DataLastObsNormalValues, which represents the date of the last observation of normal values for the lab result.</p> |
| ObservationRequests..Results..ProducersId              | HL7_CE | <p>The ProducersId member of the HL7_CE Type in the ObservationResult Type is used to identify the producer or manufacturer of the lab test result or observation.</p>  |
| ObservationRequests..Results..ProducersId.identifier   | String | <p>The identifier member of the HL7_CE Type is a string that represents a unique identifier for a specific code or value within a coding system. It is used to uniquely identify a particular concept or item in the context of the electronic health record (EHR) software.</p>                            |
| ObservationRequests..Results..ProducersId.text         | String | <p>The text member of the String Type in the HL7_CE Type is used to store the textual representation or description of a code or identifier in the HL7 standard.</p>  |
| ObservationRequests..Results..ProducersId.codingSystem | String | <p>The codingSystem member of the HL7_CE Type is a string that represents the</p>   |



|   |        |  |
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|   |        | coding system used for identifying the concept in the member. It is used to provide standardized codes for medical terminologies, such as SNOMED CT or LOINC, which helps in efficient and accurate communication of health information between different healthcare systems and organizations.                          |
| ObservationRequests..Results..ProducersId.alternateIdentifier   | String | The alternateIdentifier member of type String in the HL7_CE type is used to store an alternative identifier for a particular entity, such as a code or number, in the context of an EHR software.  |
| ObservationRequests..Results..ProducersId.alternateText         | String | The alternateText member of String Type is used to provide an alternate or additional text description for an element in the HL7_CE Type. It allows for the inclusion of additional information or a different representation of the element in cases where the standard text may not fully convey the intended meaning. |
| ObservationRequests..Results..ProducersId.alternateCodingSystem | String | The alternateCodingSystem member of the HL7_CE type in the LabResult class is used to store an alternate coding system identifier for a specific concept or term in the healthcare domain. It  |

|  |          |  |
|--|----------|--|
|  |          | provides an alternative way to identify the concept or term, which may be useful for interoperability between different healthcare systems or for translation purposes.  |
| ObservationRequests..Results..ProducersId.complete | Boolean  | The complete member of the Boolean type in the HL7_CE type is used to indicate whether the information in the HL7_CE object is complete or not.  |
| ObservationRequests..Results..ResponsibleObserver  | Provider | The ResponsibleObserver member of the Provider Type in the ObservationResult Type is used to indicate the healthcare provider who is responsible for overseeing the observation or result.   |
| ObservationRequests..Results..ItemInfoListXml      | String   | The ItemInfoListXml member of type String in the ObservationResult class is used to store additional information or metadata about the specific item in the lab result. It could be used to store any relevant details or notes related to the specific observation or result, providing supplemental information that may be useful for documentation or analysis purposes. |
| ObservationRequests..Results..itemInfoListXmlField | String   | The itemInfoListXmlField member is used to store additional information or metadata related to the   |

|   |                   |   |
|---|-------------------|---|
|   |                   | observation result in XML format.   |
| ObservationRequests..Notes              | List<String>      | The Notes member of the ObservationRequest Type is used to store additional comments or remarks related to the lab result or observation request.   |
| ObservationRequests..SpecimenActionCode | String            | The SpecimenActionCode member of String Type in the ObservationRequest Type is used to indicate the action or operation performed on the specimen during laboratory testing. It specifies whether the specimen is collected, added, removed, or processed in some other way.  |
| ObservationRequests..Specimen           | LabResultSpecimen | The Specimen member of the LabResultSpecimen Type is used to store information related to the specimen being collected for the lab test. It includes the ID of the specimen, the collection start and end date times, reasons for specimen rejection, specimen quality, appropriateness, and any additional conditions related to the specimen. |
| ObservationRequests..Diags              | List<HL7CodeType> | The Diags member of List<HL7CodeType> Type in the ObservationRequest Type is used to store the diagnostic codes related to the observation request.   |

|                                  |                    |   |
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|                                  |                    | These codes provide information about the diagnosis or condition being tested for or evaluated in the lab result.   |
| ObservationRequests..Collectors  | List<ProviderType> | The Collectors member of the List<ProviderType> type is used to store information about the healthcare professionals who collected the specimen for the lab test requested in the ObservationRequest.   |
| ObservationRequests..Collectors. | ProviderType       | The member of ProviderType Type, which is a member of the List<ProviderType> Type, is used to store information about the healthcare provider responsible for a particular lab result or observation request. It may include details such as the provider's personal information, assigning authority, and employee ID. |
| ObservationRequests..Technicians | List<HL7_CM_NDL>   | The Technicians member of the List<HL7_CM_NDL> type in the ObservationRequest class is used to store information about the technicians involved in the laboratory testing process. This information may include details such as the technician's name, location within the healthcare facility, and their role in       |

|   |            |   |
|---|------------|---|
|   |            | the testing process.  |
| ObservationRequests..Technicians.             | HL7_CM_NDL | The member of the HL7_CM_NDL type in the List<HL7_CM_NDL> type is used to store information about the location of a person within a healthcare facility.  |
| ObservationRequests..Technicians..pointOfCare | String     | The pointOfCare member in the HL7_CM_NDL type is a string that represents the specific location within a healthcare facility where the associated data or event occurred. It is used to identify the room, ward, or unit within the facility where the patient was located when the data was collected or the event took place. |
| ObservationRequests..Technicians..room        | String     | The room member of type String in the HL7_CM_NDL type is used to store the room number or identifier associated with a specific location within a healthcare facility. It is used to provide detailed information about the patient's physical location within the facility.  |
| ObservationRequests..Technicians..bed         | String     | The bed member of String Type in the HL7_CM_NDL Type is used to store the information about the bed number or identifier where a patient is located within a healthcare facility.   |

|   |        |  |
|---|--------|--|
| ObservationRequests..Technicians..locationStatus      | String | The locationStatus member of String Type in the HL7_CM_NDL Type is used to indicate the current status or condition of a specific location within the healthcare facility.   |
| ObservationRequests..Technicians..personLocationType  | String | The personLocationType member of the HL7_CM_NDL Type is a string that describes the type of location where a person is situated within a healthcare facility. It could indicate whether the person is in an inpatient room, outpatient area, emergency department, or any other designated location within the facility. |
| ObservationRequests..Technicians..building            | String | The building member of the HL7_CM_NDL type is used to store the building information related to a location in an electronic health record (EHR) software. It represents the physical building or facility where a specific location is situated, such as a hospital building or clinic building.                         |
| ObservationRequests..Technicians..floor               | String | The "floor" member of String Type in the HL7_CM_NDL Type is used to represent the floor number or level of a location within a healthcare facility.  |
| ObservationRequests..Technicians..locationDescription | String | The locationDescription member of the HL7_CM_NDL type is used  |

|  |                         |  |
|--|-------------------------|--|
|  |                         | to provide a textual description of the location where the event or activity associated with the HL7_CM_NDL object takes place.  |
| ObservationRequests..Technicians..facility             | HierarchicalDesignator  | The facility member of the HierarchicalDesignator type in the HL7_CM_NDL type represents the identification of the facility where the lab result was generated or collected. It contains information such as the namespace ID, universal ID, and universal ID type, which are used to uniquely identify the facility within the EHR system.        |
| ObservationRequests..Technicians..name                 | ExtendedCompositePerson | The name member of the ExtendedCompositePerson Type in the HL7_CM_NDL Type is used to store the name of the person associated with the location information in the EHR software.   |
| ObservationRequests..Technicians..startDateTimeEnabled | Boolean                 | The startDateTimeEnabled member of Boolean Type in the HL7_CM_NDL Type is a flag indicating whether the start date and time for a specific event or process is enabled or available. It is used to indicate if the start date and time information is applicable and can be processed or displayed in the electronic health record (EHR) software. |

|  |            |   |
|--|------------|---|
| ObservationRequests..Technicians..endDateTimeEnabled | Boolean    | The endDateTimeEnabled member of Boolean Type in the HL7_CM_NDL Type is used to indicate whether the end date and time for a person's location within a healthcare facility is enabled or not in an EHR software.                                     |
| ObservationRequests..Technicians..complete           | Boolean    | The complete member of the Boolean Type in the HL7_CM_NDL Type is used to indicate whether a location or event is considered complete or not within the Electronic Health Record (EHR) software.  |
| ObservationRequests..DiagServSectId                  | HL7_ID     | The DiagServSectId member in the HL7_ID type is used to identify the Diagnostic Service Section ID in the ObservationRequest of a LabResult.  |
| ObservationRequests..Parent                          | HL7_CM_EIP | The Parent member of the HL7_CM_EIP type is used to represent the parent order or request of a given observation request. It could be used to track the relationship between different orders or requests within the electronic health record system. |
| ObservationRequests..Parent.parentsPlacerOrderNumber | HL7_EI     | The parentsPlacerOrderNumber member of the HL7_EI Type is a unique identifier assigned to an order or   |



|  |                  |  |
|--|------------------|--|
|  |                  | request in an EHR system. It is used to track and link related orders or requests within the system.   |
| ObservationRequests..Parent.parentsFillerOrderNumber | HL7_EI           | The parentsFillerOrderNumber member of the HL7_EI Type in the HL7_CM_EIP Type is used to store the filler order number associated with the parent order.   |
| ObservationRequests..Parent.complete                 | Boolean          | The complete member of the Boolean type in the HL7_CM_EIP type is used to indicate if the lab result order is complete or not. It is a flag that can be set to true or false, where true represents a complete lab order and false represents an incomplete lab order. |
| ObservationRequests..PerformingOrg                   | OrganizationType | The PerformingOrg member of the OrganizationType type in the ObservationRequest type is used to represent the organization or facility responsible for performing the laboratory test or analysis.   |
| Lab  | Int32            | The Lab member of Int32 Type in the LabResult Type is used to store the identifier or code representing a specific laboratory or testing facility for the lab result.  |

## Immunization - "ehr\_file" CSV Export

The ehr\_file table is used to store immunization data for patients in an EHR software system. It contains information about the immunization type, date and time of administration, and the actual data related to the immunization. The table also includes columns for identifying the patient, the employee responsible for administering the immunization, and the location where it took place. The table is used to track and manage immunization records for patients, ensuring that they receive the appropriate vaccinations in a timely manner.

| Column Name                 | Data Type                   | Description   | Extraction Method               |
|-----------------------------|-----------------------------|---|---------------------------------|
| fid                         | int                         | The "fid" column is an auto-incrementing integer that serves as the unique identifier for each record in the "ehr_file" table.  | CSV                             |
| acctid                      | int                         | The acctid column is the unique identifier for a patient in the patients table.   | CSV                             |
| type                        | int                         | The type column in the ehr_file table represents the type of the ehr file.  | CSV                             |
| datet                       | datetime<br>default<br>NULL | The datet column is a datetime value that indicates the date and time when the file associated with a patient's electronic health record (EHR) was created or modified. | CSV                             |
| data                        | longblob                    | The 'data' column stores binary data such as files or documents.  | CSV + Binary<br>Deserialization |
| last_modified_datetime      | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the file was last modified.   | CSV                             |
| empid                       | int                         | The empid column is the unique employee ID associated with the file in the EHR system.  | CSV                             |
| ident_pat_edu_rsrc          | tinyint                     | The ident_pat_edu_rsrc column is a boolean flag that indicates whether the file is identified as a patient education resource.  | CSV                             |
| ident_pat_edu_rsrc_datetime | datetime<br>default         | The ident_pat_edu_rsrc_datetime column stores the date and time when the patient  | CSV                             |

|                       |                             |   |     |
|-----------------------|-----------------------------|---|-----|
|                       | NULL                        | education resource was identified for the patient.  |     |
| locid                 | int                         | The locid column represents the unique location ID from the 'locations' table.  | CSV |
| uploaded_pat          | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for the patient or not.                          | CSV |
| uploaded_pat_datetime | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the data was uploaded for a patient.                   | CSV |
| insert_guid           | varchar                     | The insert_guid column is a unique identifier generated for each record inserted into the ehr_file table.             | CSV |
| created_datetime      | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the record was created in the ehr_file table.               | CSV |
| sub_type              | int                         | The sub_type column is an integer value that represents a specific sub-type of the file stored in the ehr_file table. | CSV |

## Immunization Type

The Immunization Type is used to store information related to a patient's immunizations within an electronic health record (EHR) system. It includes details such as the type of immunization administered, the provider who administered it, the date and time of administration, dosage information, location of administration, and any related observations or notes. This information is essential for tracking and managing a patient's immunization history to ensure they receive the appropriate vaccinations. A Immunization is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name    | Type         | Description   |
|----------------|--------------|---|
|                | Immunization | The "Notes" member of the Immunization Type is used to store any additional comments or information related to the immunization.  |
| Existing       | Boolean      | The Existing member of the Immunization type is a boolean flag that indicates whether the immunization record already exists in the EHR system. It is used to determine whether the record should be created as a new entry or updated in the system. |
| Fid            | Int32        | The Fid member of Int32 Type in the Immunization Type is used to store the unique identifier for the immunization record in the Electronic Health Record (EHR) system.  |
| ContainsErrors | Boolean      | The ContainsErrors member in the Immunization type is a Boolean flag that indicates whether there are any errors  |

|                  |           |  |
|------------------|-----------|--|
|                  |           | associated with the immunization record. It is used to determine if there are any issues or discrepancies in the data, such as missing or invalid information, that may need attention or further investigation.   |
| ErrorMessage     | String    | The ErrorMessage member of type String in the Immunization type is used to store any error message associated with the immunization record. It is used to provide information about any issues or problems encountered during the processing or validation of the immunization data. |
| ErrorCount       | Int32     | The ErrorCount member of type Int32 in the Immunization type is used to store the count of errors associated with the immunization record.   |
| OrderControl     | String    | The OrderControl member of type String in the Immunization Type is used to indicate the control aspect of an immunization order, such as whether it is a new order, an update, or a cancelation.   |
| PlaceOrderNumber | ICodeType | The PlaceOrderNumber member of the ICodeType type in the Immunization type is used to store the code and associated information for the order number of the place where the immunization was   |

|                               |         |  |
|-------------------------------|---------|--|
|                               |         | ordered.   |
| PlaceOrderNumber.Code         | String  | The `Code` member of the `ICodeType` type is a string that represents a unique identifier or code associated with a specific concept or item in a standardized coding system. It is used to classify and identify various elements in the electronic health record (EHR) software, such as medical conditions, medications, procedures, or laboratory tests. |
| PlaceOrderNumber.Name         | String  | The Name member of the String Type in the ICodeType Type is used to store the name or description of a code or identifier used in the immunization record.   |
| PlaceOrderNumber.CodingSystem | String  | The CodingSystem member of the ICodeType type represents the coding system or standard that is used to identify and classify the code value. It is used to ensure interoperability and standardization of codes within the electronic health record (EHR) system.  |
| PlaceOrderNumber.complete     | Boolean | In the context of the EHR software, the complete member of the Boolean type in the ICodeType class is used to indicate whether the code entry is complete or not. It is used to verify if all required information for the code (such as code value, name, and coding system) has been   |

|                                     |                        |  |
|-------------------------------------|------------------------|--|
|                                     |                        | provided.  |
| PlacerOrderNumberHD                 | HierarchicalDesignator | The PlacerOrderNumberHD member of the HierarchicalDesignator type in the Immunization class is used to uniquely identify the hierarchical designator of the placer order number associated with the immunization. This designator may include information such as the namespace ID, universal ID, and universal ID type for the placer order number, allowing for identification and tracking of the specific order. |
| PlacerOrderNumberHD.NamespaceId     | String                 | The NamespaceId member of the HierarchicalDesignator Type is a string value that represents the unique identifier for the healthcare organization or system that has assigned the code system or value set. It is used to distinguish between different code systems or value sets within the EHR software.  |
| PlacerOrderNumberHD.UniversalId     | String                 | The UniversalId member of the HierarchicalDesignator type is a string that represents a unique identifier for the namespace to which the data belongs. It is used to identify and categorize the data within the Electronic Health Record (EHR) system.  |
| PlacerOrderNumberHD.UniversalIdType | String                 | The UniversalIdType member of String Type in the HierarchicalDesignator Type   |

|                              |                        |   |
|------------------------------|------------------------|---|
|                              |                        | is used to specify the type or format of the UniversalId. It could indicate whether the UniversalId is in a specific standard format such as HL7, OID, or UUID, or it could represent a custom format specific to the EHR software.   |
| PlacerOrderNumberHD.complete | Boolean                | The complete member of Boolean Type in the HierarchicalDesignator class indicates whether all the properties of the HierarchicalDesignator have been set or not. It is used to determine if the HierarchicalDesignator object has been fully initialized with all the required information. |
| FillerOrderNumber            | ICodeType              | The FillerOrderNumber member of the ICodeType type in the Immunization type is used to store the order number provided by the facility or system that is filling the immunization order. This order number helps to track and identify the specific immunization order in the system.       |
| FillerOrderNumberHD          | HierarchicalDesignator | The FillerOrderNumberHD member of the HierarchicalDesignator type in the Immunization type is used to store hierarchical identification information related to the filler order number of the immunization.   |
| EnteredBy                    | Provider               | The EnteredBy member of the Provider Type in the Immunization Type is used to   |



|  |          |  |
|--|----------|--|
|  |          | store the information of the provider who entered or recorded the immunization data in the EHR software.   |
| EnteredBy.DataTypeField                  | DataType | The DataTypeField member of the DataType Type in the Provider class is used to identify the type of data associated with the provider.   |
| EnteredBy.DataTypeField.value__          | Int32    | The value__ member of the Int32 Type in the DataType Type is used to represent the value of a specific data type within the EHR software. It is used as an identifier or code to determine the type of data being stored or processed within the software. |
| EnteredBy.DataTypeField.EnteredBy        | DataType | The EnteredBy member of DataType Type represents the provider information of the individual who entered the immunization data into the EHR software. It is used to track and document the user responsible for inputting the immunization record.          |
| EnteredBy.DataTypeField.OrderingProvider | DataType | The OrderingProvider member of the DataType Type in the Immunization class represents the healthcare provider who is responsible for ordering the immunization.  |
| EnteredBy.DataTypeField.AdminProvider    | DataType | The AdminProvider member of the DataType Type represents the healthcare provider who administers the immunization to the patient.  |

|                                       |                         |  |
|---------------------------------------|-------------------------|--|
| EnteredBy.DataTypeField.AdminLocation | DataType                | The AdminLocation member of the DataType Type is used to store information about the location where an immunization is administered.   |
| EnteredBy.DataTypeField.None          | DataType                | The None member of the DataType type in the EHR software is used to indicate that no specific data type is associated with that particular value.  |
| EnteredBy.Person                      | ExtendedCompositePerson | The Person member of the ExtendedCompositePerson type represents the personal information of a healthcare provider, including their name and identification details. It is used to store and retrieve the provider's name and other identifying information within an Electronic Health Record (EHR) system. |
| EnteredBy.Person.IdNumber             | String                  | The IdNumber member of type String in the ExtendedCompositePerson class is used to store the identification number of a person. This identification number can be used to uniquely identify the person within the EHR software system.   |
| EnteredBy.Person.IdType               | String                  | The IdType member in the ExtendedCompositePerson type is used to specify the type of identification document associated with the person, such as a driver's license, passport, or social   |

|                                    |            |   |
|------------------------------------|------------|---|
|                                    |            | security number.  |
| EnteredBy.Person.LastName          | FamilyName | The LastName member of the FamilyName type represents the surname or last name of a person. It is used to store the family name of an individual in the ExtendedCompositePerson type, which is commonly used in Electronic Health Record (EHR) software to store patient information. |
| EnteredBy.Person.LastName.Surname  | String     | The Surname member of type String in the FamilyName class is used to store the last name or family name of a person.  |
| EnteredBy.Person.LastName.complete | Boolean    | The complete member of the Boolean Type in the FamilyName Type is used to indicate whether the surname field is complete or not.  |
| EnteredBy.Person.FirstName         | String     | The FirstName member of String Type in the ExtendedCompositePerson Type is used to store the first name of a person in a healthcare electronic health record (EHR) system.  |
| EnteredBy.Person.GivenNamesOther   | String     | The GivenNamesOther member of type String in the ExtendedCompositePerson class is used to store additional given names or middle names of a person that are not captured in the FirstName member.   |
| EnteredBy.Person.Prefix            | String     | The Prefix member of type   |

|                                     |                        |   |
|-------------------------------------|------------------------|---|
|                                     |                        | String in the ExtendedCompositePerson class is used to store a title or honorific prefix that can be associated with a person's name.   |
| EnteredBy.Person.Suffix             | String                 | The "Suffix" member of the ExtendedCompositePerson type is a string that represents the suffix or title associated with a person's name, such as "Jr.", "Ph.D.", or "Sr.". It is used to store the suffix or title of a person's name in electronic health records (EHR) software.  |
| EnteredBy.Person.NameType           | String                 | The NameType member in the ExtendedCompositePerson type is a string that represents the type of name associated with the person, such as "legal" or "maiden". It is used to differentiate between different types of names that a person may have, allowing for accurate identification and record-keeping within the EHR software. |
| EnteredBy.Person.AssigningAuthority | HierarchicalDesignator | The AssigningAuthority member of the HierarchicalDesignator type in the ExtendedCompositePerson type is used to specify the authority responsible for assigning the namespace identifier used in the healthcare system.   |

|                           |         |   |
|---------------------------|---------|---|
| EnteredBy.Person.complete | Boolean | The complete member of the Boolean type in the ExtendedCompositePerson class is used to indicate whether the person's information is complete or not.   |
| EnteredBy.type            | Type    | The type member of the Type Type in the Provider class is used to categorize different types of providers within an Electronic Health Record (EHR) system. This classification allows the system to differentiate between different types of providers such as healthcare professionals, clinics, laboratories, and identification data.    |
| EnteredBy.type.value__    | Int32   | The value__ member of the Int32 Type is an automatically generated field for enum types in C#. It represents the underlying value of the enum constant and is used for storing and comparing the enum values. In the context of an EHR software, the value__ member may be used for mapping and persisting the enum values in the database. |
| EnteredBy.type.Provider   | Type    | The Provider member of Type Type is used to store information about a healthcare provider, such as the provider's identification, contact information, and location.  |

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| EnteredBy.type.Provider2      | Type | The Provider2 member of Type Type is used to represent a second provider or healthcare professional associated with an immunization record in an EHR software. This could indicate that multiple providers were involved in the administration or documentation of the immunization. |
| EnteredBy.type.Location       | Type | The Location member of Type Type is used to store information related to the location of an immunization event, such as the facility or clinic where the immunization was administered.  |
| EnteredBy.type.Identification | Type | The Identification member of Type Type is used to represent the identification information of an individual, such as their name, date of birth, gender, and other relevant details. It is used for patient identification and record-keeping purposes in an EHR software.            |
| EnteredBy.type.ContactInfo    | Type | The ContactInfo member of the Type Type is used to store and manage contact information associated with a person, such as phone numbers, email addresses, and mailing addresses.   |
| EnteredBy.type.Composite      | Type | The Composite member of Type Type is used to represent a composite data type in the EHR software. It   |

|                               |      |  |
|-------------------------------|------|--|
|                               |      | may be used to store multiple related data elements together as a single unit, allowing for more organized and structured data storage and retrieval.  |
| EnteredBy.type.ID_TB          | Type | The ID_TB member of the Type enum is used to represent a Tuberculosis identification code.   |
| EnteredBy.type.ID_CmbBx       | Type | The ID_CmbBx member of the Type enum is used to represent a combination box or dropdown list for identification purposes in an EHR software.   |
| EnteredBy.type.CE             | Type | The CE member of the Type Type is used to represent a coded element in a healthcare record. It is used to store and represent various types of codes, such as diagnosis codes, procedure codes, or medication codes.                       |
| EnteredBy.type.PersonLocation | Type | The PersonLocation member of the Type Type is used to store the information related to a person's physical location or address within the electronic health record system.   |
| EnteredBy.type.CM_NDL         | Type | The CM_NDL member of the Type Type is used to represent a code for a non-discrimination language, such as indicating whether a healthcare provider has adopted a non-discrimination policy or whether a patient has expressed a preference |

|                       |       |  |
|-----------------------|-------|--|
|                       |       | for non-discrimination.  |
| EnteredBy.type.CM_EIP | Type  | The CM_EIP member of the Type Type is used to store information related to the Electronic Information Provider (EIP) in an EHR software. It contains data such as EIP identification, contact information, and other relevant details. |
| EnteredBy.type.EI     | Type  | The EI member of the Type Type is used for representing an electronic interface or interface identifier in the EHR software.   |
| EnteredBy.type.HD     | Type  | The HD member of the Type Type is used to represent a hierarchical designator, such as a code for an organization or facility, in the EHR software.  |
| EnteredBy.lab         | Lab   | The Lab member of the Lab Type in the Provider class is used to indicate the laboratory associated with the provider.  |
| EnteredBy.lab.value__ | Int32 | The value__ member of the Int32 Type in the Lab Type is an enumeration value that represents the specific lab test being performed. It is used to identify the type of lab test that is being recorded in the EHR software.            |
| EnteredBy.lab.None    | Lab   | The "None" member of the Lab Type indicates that no specific lab test is associated with the Immunization. It is used to represent the   |



|                               |                    |   |
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|                               |                    | absence of a lab test result for the given immunization record.   |
| EnteredBy.lab.EllkayProgenity | Lab                | The EllkayProgenity member of Lab Type is used to represent a specific laboratory test or analysis related to the Progenity diagnostic testing service. It is utilized within the EHR software to track and manage the results of Progenity lab tests for patients. |
| EnteredBy.empid2              | Int32              | empid2 is used to store the employee ID of the provider in the electronic health record software.   |
| EnteredBy.complete            | Boolean            | The complete member of the Provider type in the EHR software is used to indicate whether the provider's information is complete or not.   |
| OrderingProvider              | Provider           | The OrderingProvider member of the Provider type in the Immunization class is used to store information about the healthcare provider who ordered the immunization.   |
| StartTime                     | Nullable<DateTime> | The StartTime member of the Immunization Type in the EHR software represents the time at which the immunization was started or administered. It is a nullable DateTime type, allowing for the possibility of not having a specific start time recorded.             |

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|----------------|--------------------|---|
| EndTime        | Nullable<DateTime> | The EndTime member of Nullable<DateTime> type in the Immunization Type is used to represent the time when the immunization procedure or administration ended. It specifies the completion time of the immunization event. |
| ID             | ICodeType          | The ID member of the ICodeType type is a unique identifier that represents a specific code or item in the EHR software's system. It is used for referencing and identifying specific codes or items within the software.  |
| AdministeredId | ICodeType          | The AdministeredId member of the ICodeType type in the Immunization type is used to store the code or identifier for the administered immunization.   |
| Amount         | String             | The Amount member of type String in the Immunization type is used to store the dosage amount of the administered immunization.  |
| Units          | ICodeType          | The Units member of the ICodeType type in the Immunization type is used to represent the unit of measurement for the amount of the administered immunization.   |
| Notes          | String             | The Notes member of type String in the Immunization object is used to store additional information or comments related to the   |

|                                 |           |   |
|---------------------------------|-----------|---|
|                                 |           | immunization record.  |
| NotesCode                       | ICodeType | The NotesCode member of the ICodeType type in the Immunization type is used to store a code that represents a specific note or comment related to the immunization.   |
| AdministeringProvider           | Provider  | The AdministeringProvider member of the Provider type in the Immunization type is used to store information about the healthcare provider who administers the immunization.   |
| EnteringOrganization            | HL7_CE    | The EnteringOrganization member in the HL7_CE Type within the Immunization Type represents the organization that entered or documented the immunization information into the electronic health record (EHR). It provides identification and contextual information about the organization, including an identifier, text description, coding system, and alternate identifiers. |
| EnteringOrganization.identifier | String    | The identifier member of type String in the HL7_CE type is used to store a unique identifier or code that identifies a specific entity or concept within a given coding system or standard. It could be used to uniquely identify a particular value or element in the HL7 standard or any other coding system used in  |

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|--|--------|--|
|  |        | healthcare.  |
| EnteringOrganization.text                | String | The text member of the String Type in the HL7_CE Type is used to store a textual description or name associated with the identifier of a code. It is used to provide additional information or context about the code used in the specific context of the EHR software.                    |
| EnteringOrganization.codingSystem        | String | The codingSystem member of the HL7_CE Type is a string that represents the coding system used for the identifier and text members. It is used to identify the specific coding system or standard that is being used to categorize and define the values in the identifier and text fields. |
| EnteringOrganization.alternateIdentifier | String | The alternateIdentifier member of the String type in the HL7_CE type is used to store an alternative identifier for a specific code or item. It could be used to reference an alternate identification system or code for the same concept, providing additional information or context.   |
| EnteringOrganization.alternateText       | String | The alternateText member of the HL7_CE Type is used to store an alternate text description for a specific identifier. This alternate text can provide additional or alternative information about the identifier, potentially aiding in the interpretation or                              |

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|  |                        | understanding of the data.  |
| EnteringOrganization.alternateCodingSystem | String                 | The alternateCodingSystem member of the HL7_CE Type is a string that represents an alternate coding system for identifying a healthcare concept. It may be used to provide additional or alternative codes for a particular concept, allowing for interoperability between different coding systems or standards used in electronic health records. |
| EnteringOrganization.complete              | Boolean                | The complete member of the Boolean type in the HL7_CE class is used to indicate whether the HL7 code element is complete or not. It is used to track the completeness or validity of the code element within the EHR software.  |
| AdministeringLocation                      | Facility               | The AdministeringLocation member of the Facility type in the Immunization type is used to store the location information of where the immunization was administered.  |
| AdministeringLocation.Location             | HierarchicalDesignator | The Location member of the HierarchicalDesignator type is a string that represents the physical or virtual location of a healthcare facility. It is used to identify the specific location where a healthcare facility is located or where a healthcare service is provided.  |

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| AdministeringLocation.complete | Boolean            | The complete member of the Facility type in the EHR software indicates whether the facility's information is complete or not. It is a Boolean value that is used to determine if all the necessary information for the facility is present or if there are missing fields. |
| Lot                            | String             | The Lot member of type String in the Immunization type is used to represent the lot number of the administered vaccine.  |
| SubstanceExpirationDate        | Nullable<DateTime> | The SubstanceExpirationDate member in the Immunization type is used to store the expiration date of the substance or vaccine administered during the immunization. These dates are important for tracking the validity and safety of the administered substances.          |
| Manufacturer                   | ICodeType          | The Manufacturer member of the ICodeType type in the Immunization type is used to store information about the manufacturer of the administered medication or vaccine.  |
| RefusalCode                    | ICodeType          | The RefusalCode member of the ICodeType type is used to indicate the code associated with a refusal or rejection of an immunization. It represents a specific code that identifies the reason for the refusal or rejection of the immunization in the                      |

|                  |           |   |
|------------------|-----------|---|
|                  |           | electronic health record (EHR).   |
| Refusal2Code     | ICodeType | The Refusal2Code member in the ICodeType type is used to represent a code that indicates a refusal or rejection of a specific aspect or component related to an immunization. It is used in the Immunization type within an EHR software to track and document instances where a patient has refused or declined a specific aspect of the immunization process. |
| CompletionStatus | String    | The CompletionStatus member of the Immunization type is a string that indicates the status of the immunization completion. It is used to track whether the immunization has been fully administered or if there are any pending actions related to its completion.  |
| ActionCode       | String    | The ActionCode member in the Immunization type is a string that indicates the action or status associated with the immunization record. It is used to determine whether the immunization is a new order, update, or cancellation.   |
| RouteCode        | ICodeType | The RouteCode member of the ICodeType type in the Immunization type is used to represent the code for the route of administration for the immunization. It specifies how the immunization is  |

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|                   |                   | administered to the patient, such as through injection, oral ingestion, or topical application.   |
| SiteCode          | ICodeType         | The SiteCode member of the ICodeType type in the Immunization type is used to represent the code for the specific site where the immunization is administered.  |
| RelatedObs        | List<Observation> | The RelatedObs member of the Immunization type is used to store a list of related observations or measurements associated with the immunization. These observations could include any additional data or measurements that are relevant to the immunization, such as the patient's vital signs before or after administration, lab test results, or any other relevant clinical data. |
| RelatedObs.       | Observation       | The member of the Observation Type, which is a member of the List<Observation> Type, is used to store individual observations or measurements related to a specific immunization. This can include data such as lab results, vital signs, or specific details about the administration of the immunization.   |
| RelatedObs..PType | ParentType        | The PType member of the ParentType enum in the  |



|                                |            |  |
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|                                |            | Observation type is used to indicate the parent type of the observation. It specifies whether the observation is associated with an immunization or an observation request.  |
| RelatedObs..PType.value__      | Int32      | The value__ member of the Int32 Type in the ParentType Type is used to store the numeric value corresponding to the specific enum member in the ParentType enumeration. This value is used internally by the software to represent the enum member and can be used for comparisons and other operations involving the enum.                                      |
| RelatedObs..PType.None         | ParentType | The None member of the ParentType enum is used to indicate that there is no parent type associated with a particular object in the EHR software. It is used as a default or placeholder value when there is no relevant parent type for an object.   |
| RelatedObs..PType.Immunization | ParentType | The Immunization member of the ParentType Type is used to store information about a specific immunization record for a patient. It contains details such as the type of immunization, dosage, provider information, administration location, lot number, expiration date, refusal code, and completion status. It may also include related observations and next |

|                                      |            |  |
|--------------------------------------|------------|--|
|                                      |            | of kin information.  |
| RelatedObs..PType.ObservationRequest | ParentType | ObservationRequest member of the ParentType Type is used to represent a request for an observation or test to be performed on a patient as part of their healthcare. It could include information such as the type of observation/test requested, any specific instructions or parameters, and the healthcare provider who made the request. |
| RelatedObs..AssignedCodeType         | CodeType   | The AssignedCodeType member of the CodeType Type in the Observation Type is used to represent the type of code that has been assigned to the observation.  |
| RelatedObs..AssignedCodeType.value__ | Int32      | The value__ member of the Int32 Type in the CodeType Type is used to store the integer value of a CodeType enum. It is a default member that assigns a value to each enum member, starting from 0 and incrementing by 1 for each subsequent member.  |
| RelatedObs..AssignedCodeType.None    | CodeType   | The None member of the CodeType enum is used to indicate that no specific code type is assigned or applicable in certain cases within the EHR software.  |
| RelatedObs..AssignedCodeType.ELLKAY  | CodeType   | The ELLKAY member of the CodeType type is used to represent a specific type of code used within the EHR software. Its exact purpose or   |

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|-------------------------------|-------|--|
|                               |       | meaning cannot be determined with the information provided.  |
| RelatedObs..ValueType         | Type  | The ValueType member of the Type enum in the Observation Type is used to specify the type of value for an observation. It represents the different data types that can be associated with an observation, such as text, numeric, date, code, or identifier.                                      |
| RelatedObs..ValueType.value__ | Int32 | The value__ member of Int32 Type is an internal representation of the enumeration constant value for the Type Type. It is used to uniquely identify each enumeration constant in the Type enum, which is used in the EHR software to specify the type of data stored in the Immunization object. |
| RelatedObs..ValueType.None    | Type  | The None member of the Type type is used to represent a null or empty value. It is used in situations where there is no specific data or value assigned to a particular field or property in the Immunization object.  |
| RelatedObs..ValueType.HD      | Type  | The HD member of the Type Type is used to store hierarchical designator information related to immunizations in an EHR software.   |
| RelatedObs..ValueType.TS      | Type  | The TS member of the Type Type is used to represent a  |

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|                                  |      | timestamp or a time value in the EHR software.  |
| RelatedObs..ValueType.DT         | Type | The DT member of the Type Type is used to represent a date and time value in the EHR software.  |
| RelatedObs..ValueType.TX         | Type | The TX member of the Type Type is used to represent text data in EHR software.  |
| RelatedObs..ValueType.NM         | Type | The NM member of the Type Type is used to represent a numerical value in the electronic health record (EHR) software.   |
| RelatedObs..ValueType.CWE        | Type | The CWE member of Type Type is used to represent a coded value that identifies a specific concept or term in the EHR software. It could be used for capturing and storing standardized codes for various elements such as medications, allergies, procedures, or lab tests. |
| RelatedObs..ValueType.ST         | Type | The ST member of the Type Type is a string data type used for storing text values in the EHR software. It is used for fields that require free text input, such as notes or descriptions.   |
| RelatedObs..ValueType.Units      | Type | The Units member of Type Type is used to represent the units of measurement for a quantity related to an immunization record in an EHR software.  |
| RelatedObs..ValueType.Identifier | Type | The Identifier member of the  |

|                                     |             |  |
|-------------------------------------|-------------|--|
|                                     |             | Type Type is used to store a unique identifier for the immunization record. This identifier could be used for tracking and retrieving the specific immunization information for a patient within the EHR software.   |
| RelatedObs..Identifier              | HL7DataType | The Identifier member of the HL7DataType type in the Observation type is used to assign a unique identifier or code to the observation, allowing for easy identification and retrieval of specific observations within the electronic health record (EHR) software.  |
| RelatedObs..Identifier.NumericValue | Decimal     | The NumericValue member of Decimal Type represents a numerical value within the HL7DataType Type. It is used to store numeric data, such as measurements or quantities, related to healthcare information in the EHR software.   |
| RelatedObs..Identifier.DateValue    | DateTime    | The DateValue member of DateTime Type in the HL7DataType Type is used to store and represent a specific date and time value. It is commonly used in EHR software to capture and record the date and time of various events or observations related to healthcare data, such as when an immunization was administered or when a laboratory test was |

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|                                   |        | conducted.  |
| RelatedObs..Identifier.Narrative  | String | The Narrative member of the String Type in the HL7DataType class is used to store free-form textual information related to a specific data element. It provides a description or additional details about the data element in a human-readable format. It is used to capture information that may not fit into predefined categories or requires further explanation. |
| RelatedObs..Identifier.Identifier | String | The Identifier member of String Type in the HL7DataType Type is used to store a unique identifier or code associated with a particular data element. It is primarily used for identification and reference purposes within the EHR software.  |
| RelatedObs..Identifier.Text       | String | The Text member of String Type in the HL7DataType Type is used to store textual information related to the data represented by the HL7DataType. It is a generic field that can hold any type of text-based information that is relevant to the data being stored.   |
| RelatedObs..Identifier.CodeClass  | String | The CodeClass member in the HL7DataType type is used to indicate the classification or category of the code used within the EHR software. It provides additional  |

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|  |        | information about the type of coding system or standard being used.  |
| RelatedObs..Identifier.NameOfCodingSystem  | String | The NameOfCodingSystem member of String Type in the HL7DataType Type is used to store the name of the coding system that is used for identifying a particular code or value. It provides information about the specific standard or vocabulary that is used for representing the code or value.                                  |
| RelatedObs..Identifier.AlternateIdentifier | String | The AlternateIdentifier member of String Type in the HL7DataType Type is used to store an alternate identifier for a particular healthcare entity or data element. It may refer to a different coding system or identification method than the primary identifier, providing additional context or information about the entity. |
| RelatedObs..Identifier.AlternateText       | String | The AlternateText member of the HL7DataType type is used to store an alternate text or description for a specific value or code. This allows for additional information or context to be provided in cases where the original text may not be sufficient or clear.   |
| RelatedObs..Identifier.AlternateCodeClass  | String | The AlternateCodeClass member in the String Type of the HL7DataType is used to provide an alternate  |

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|  |                             | classification or category for a specific code or identifier in the healthcare data. It may be used to provide additional information or context about the code, allowing for more flexibility and compatibility with different coding systems or standards.   |
| RelatedObs..Identifier.NameOfAlternateCodingSystem | String                      | The NameOfAlternateCodingSystem member of String Type in the HL7DataType Type is used to store the name of an alternate coding system for a specific healthcare code. This coding system is used as an alternative to the primary coding system and provides additional information or context for the code value. |
| RelatedObs..Identifier.OriginalText                | String                      | The OriginalText member of type String in the HL7DataType is used to store the original text or narrative associated with a specific data element. This could be used to capture additional details or provide context to the data element.  |
| RelatedObs..Identifier.dateValue                   | DateTime                    | The dateValue member of DateTime Type in the HL7DataType Type is used to store and represent a specific date value.  |
| RelatedObs..IdentifierSelType                      | Nullable<CodeSelectionType> | The IdentifierSelType member of Nullable<CodeSelectionType> type in the Observation class is used to specify the type of code selection for the  |



|                                 |                    |   |
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|                                 |                    | identifier of the observation.  |
| RelatedObs..ObsMethodIdentifier | HL7DataType        | The ObsMethodIdentifier member of the HL7DataType type represents the identifier for the method of observation used in the context of an EHR software.  |
| RelatedObs..Units               | HL7DataType        | The Units member of the HL7DataType Type in the Observation Type represents the units of measurement associated with a specific observation or result. It is used to document and display the measurement units for a particular clinical data point or test result in the EHR software.  |
| RelatedObs..ResultStatus        | Char               | The ResultStatus member of the Char type in the Observation class is used to indicate the status of the result of the observation.  |
| RelatedObs..DateTime            | Nullable<DateTime> | The DateTime member of Nullable<DateTime> type in the Observation class is used to store the date and time of the observation.  |
| RelatedObs..ObservationValue    | ObservationValue   | The ObservationValue member in the Observation Type is used to store various types of values related to an observation result. These values can include hierarchical designators (Hd), dates (Dt), timestamps (Ts), text (Tx), numeric values (Nm), coded values (Cwe), and strings (St). |

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| RelatedObs..ObservationValue.Hd | HL7DataType | The Hd member of the HL7DataType type is used to store information related to a Hierarchical Designator.  |
| RelatedObs..ObservationValue.Dt | HL7DataType | The "Dt" member of the HL7DataType type in the ObservationValue class represents a date value in the HL7 data format. It is used to store and handle dates within the context of an electronic health record (EHR) software.  |
| RelatedObs..ObservationValue.Ts | HL7DataType | The Ts member of the HL7DataType type in the ObservationValue class is used to store and represent a timestamp value in the HL7 format. It is used to capture and record the specific date and time associated with an observation or event in the electronic health record (EHR) system. |
| RelatedObs..ObservationValue.Tx | HL7DataType | The "Tx" member of the HL7DataType type, which is a member of the ObservationValue type, is used to represent textual data values. It can store any type of text-based information, such as notes, comments, descriptions, or other textual data related to the observation.              |
| RelatedObs..ObservationValue.Nm | HL7DataType | The Nm member of the HL7DataType type in the ObservationValue class is used to store a numeric value for an observation in the EHR software.  |

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| RelatedObs..ObservationValue.Cwe | HL7DataType | The Cwe member of the HL7DataType Type in the ObservationValue Type is used to store a coded value for an observation. This coded value refers to a specific concept or term in a standardized coding system, such as SNOMED CT or LOINC. It allows for the consistent representation and interpretation of the observation across different healthcare systems and providers. |
| RelatedObs..ObservationValue.St  | HL7DataType | The St member of the HL7DataType Type is used to store a string value for a specific observation in the EHR software.  |
| RelatedObs..SubId                | Int32       | The SubId member of the Int32 type, which is a member of the Observation type, is used to indicate a sub-identifier or sub-index within a group or collection of observations. It may be used to distinguish between multiple observations that are related or categorized together, such as within a specific patient encounter or clinical event.                            |
| RelatedObs..NoteList             | List<Note>  | The NoteList member of the List<Note> type in the Observation class is used to store a list of notes or comments related to a specific observation. These notes can provide additional information or context about the observation, such as   |

|                            |                    |   |
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|                            |                    | clarification, interpretation, or any other relevant details.   |
| RelatedObs..NoteList.      | Note               | The "text" member of the Note type is used to store the content or text of a note within the EHR software.  |
| RelatedObs..NoteList..text | String             | The text member of String Type in the Note Type is used to store the text content of a note or comment associated with a specific item in the EHR software.   |
| RelatedObs..ReferenceRange | String             | The ReferenceRange member of type String in the Observation class is used to store the acceptable range or reference values for a specific observation or measurement. It provides a reference point against which the actual value can be compared to determine if it falls within the normal or expected range. |
| NextOfKin                  | List<Patient>      | The NextOfKin member of List<Patient> type in the Immunization class is used to store a list of patients who are designated as the next of kin for the patient receiving the immunization.  |
| NextOfKin.                 | Patient            | In the given Patient type, the member "MultipleBirth" is used to indicate whether the patient is a multiple birth, such as a twin or triplet.   |
| NextOfKin..Birthday        | Nullable<DateTime> | The Birthday member of type Nullable<DateTime> in the Patient type is used to store the date of birth of the  |

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|--|--------------------|--|
|  |                    | patient in an electronic health record (EHR) system.   |
| NextOfKin..LastModified_OnlineFormsHistory | Nullable<DateTime> | The LastModified_OnlineFormsHistory member of type Nullable<DateTime> in the Patient class is used to track the date and time when the patient's online forms history was last modified in the EHR software. |
| NextOfKin..Patient_Address1                | String             | The Patient_Address1 member is used to store the first line of the patient's address in the EHR software.  |
| NextOfKin..Patient_Address2                | String             | The Patient_Address2 member of the Patient type is a string that represents the secondary address line of a patient's contact information.   |
| NextOfKin..Patient_City                    | String             | The Patient_City member of String Type in the Patient class is used to store the city of residence of the patient in an electronic health record (EHR) system.   |
| NextOfKin..Patient_First_Name              | String             | The Patient_First_Name member is a string that represents the first name of the patient. It is used to store and retrieve the first name of the patient within the EHR software.                             |
| NextOfKin..Patient_Home_Phone              | String             | The Patient_Home_Phone member of type String in the Patient class is used to store the home phone number of a patient in an Electronic Health Record (EHR) system.   |

|                                 |        |  |
|---------------------------------|--------|--|
| NextOfKin..Patient_Last_Name    | String | The Patient_Last_Name member of type String is a variable used to store the last name of a patient in an EHR (Electronic Health Record) system. It is used to identify and differentiate patients by their surname.                            |
| NextOfKin..Patient_Middle_Name  | String | The Patient_Middle_Name member in the Patient type is a string variable that stores the middle name of a patient. It is used to store the middle name information of a patient's demographic data in an EHR (Electronic Health Record) system. |
| NextOfKin..PatientMiddleInitial | Char   | The PatientMiddleInitial member of Char Type represents the middle initial of a patient in the EHR software.   |
| NextOfKin..PatientNickname      | String | The PatientNickname member is a string attribute used to store the nickname or preferred name of the patient in the EHR software.  |
| NextOfKin..Patient_Sex          | Char   | The Patient_Sex member of Char Type in the Patient Type is used to store the gender or sex of the patient, such as Male or Female.   |
| NextOfKin..Patient_State        | String | The Patient_State member is a string that represents the state in which the patient resides. It is used to store the state information of a patient's address for identification and geographic purposes within the EHR                        |

|                                   |        |   |
|-----------------------------------|--------|---|
|                                   |        | software.   |
| NextOfKin..PatientSuffix          | String | The PatientSuffix member in the Patient type is a string variable that represents the suffix of the patient's name. It is used to store information such as "Jr.", "Sr.", "III", or other suffixes indicating the generational order of the patient's name. |
| NextOfKin..PatientTitle           | String | The PatientTitle member of String Type in the Patient Type is used to store the title or honorific prefix of the patient, such as Mr, Mrs, or Dr.   |
| NextOfKin..Patient_Work_Phone     | String | The Patient_Work_Phone member of type String in the Patient class stores the phone number of the patient's workplace in an electronic health record (EHR) system.   |
| NextOfKin..Patient_Cell_Phone     | String | The Patient_Cell_Phone member is a string type variable in the Patient class. It is used to store the cell phone number of a patient in an Electronic Health Record (EHR) software.   |
| NextOfKin..Patient_Zip            | String | Patient_Zip is a string member in the Patient Type that represents the zip code of the patient's address.   |
| NextOfKin..Patient_Marital_Status | String | The Patient_Marital_Status member in the Patient type is a string that represents the marital status of the patient. It is used to store  |

|                                       |        |   |
|---------------------------------------|--------|---|
|                                       |        | information about whether the patient is single, married, divorced, or in another marital status.   |
| NextOfKin..Patient_Email_Address      | String | The Patient_Email_Address member in the Patient type is a string that represents the email address of a patient. It is used as a contact information for the patient and can be used for communication purposes, such as sending appointment reminders or sharing medical information electronically. |
| NextOfKin..SSN                        | String | The SSN member of the Patient type is used to store the Social Security Number of a patient.  |
| NextOfKin..Mothers_First_Name         | String | The Mothers_First_Name member of String Type in the Patient Type is used to store the first name of the patient's mother.   |
| NextOfKin..Mothers_Maiden_Name        | String | The Mothers_Maiden_Name member of the Patient Type is a string that stores the mother's maiden name of a patient. It is used as a piece of personal identification information in medical records and can be used for verifying the patient's identity and medical history.                           |
| NextOfKin..EyecareLeadersHI7PatientId | String | The EyecareLeadersHI7PatientId member in the Patient class is used to store the HL7 patient ID for a patient in the EHR   |



|                            |         |   |
|----------------------------|---------|---|
|                            |         | software.   |
| NextOfKin..Mi7HI7PatientId | String  | The Mi7HI7PatientId member is a unique identifier for a patient within the EHR software. It is used to track and differentiate patients in the HL7 messaging interface for interoperability and data exchange purposes.                     |
| NextOfKin..active          | Boolean | The active member of Boolean Type in the Patient Type is used to indicate whether the patient record is currently active or not within the EHR software system.   |
| NextOfKin..balance         | Int64   | The balance member of type Int64 in the Patient class is used to store the balance or outstanding amount owed by the patient for medical services or treatments provided by the EHR software.   |
| NextOfKin..eppointid       | Int32   | The eppointid member of the Int32 Type in the Patient Type is used as a unique identifier or reference to a specific point within the EHR system. It is used to distinguish or categorize different points or sections within the software. |
| NextOfKin..family_id       | Int32   | The family_id member of type Int32 in the Patient class is used to store the identifier of the patient's family group in the EHR software.  |
| NextOfKin..ins_balance     | Int64   | The ins_balance member of type Int64 in the Patient class is used to store the insurance  |

|                               |        |  |
|-------------------------------|--------|--|
|                               |        | balance of the patient.  |
| NextOfKin..patient_address1   | String | The patient_address1 member in the Patient Type is a string that represents the first line of the patient's address. It is used to store the first line of the patient's physical address information in the EHR software.                                   |
| NextOfKin..patient_address2   | String | The patient_address2 member of the String Type in the Patient class is used to store the second line of the patient's address.   |
| NextOfKin..patient_city       | String | The patient_city member of type String in the Patient class represents the city where the patient resides.   |
| NextOfKin..patient_first_name | String | The patient_first_name member of String Type is used to store the first name of the patient in the EHR software.   |
| NextOfKin..patient_home_phone | String | The patient_home_phone member of String Type in the Patient Type is used to store the home phone number of the patient in the Electronic Health Record (EHR) software.   |
| NextOfKin..patient_last_name  | String | The patient_last_name member is a string variable in the Patient type which represents the last name of a patient. This variable is used to store and retrieve the last name of a patient for record keeping and identification purposes in an EHR software. |

|                                |        |   |
|--------------------------------|--------|---|
| NextOfKin..patient_middle_name | String | The patient_middle_name member of type String is used to store the middle name of a patient in an electronic health record (EHR) system.  |
| NextOfKin..patient_nickname    | String | The patient_nickname member of type string is used to store the nickname or preferred name of the patient in the EHR software.  |
| NextOfKin..patient_sex         | Char   | The `patient_sex` member of type Char is used to represent the gender of a patient in the EHR software.   |
| NextOfKin..patient_state       | String | The patient_state member of type String in the Patient class is used to store the state or province of the patient's address in the EHR software.   |
| NextOfKin..patient_suffix      | String | The patient_suffix member in the Patient Type is a string that represents a suffix added to the patient's name, such as Jr., Sr., III, etc. It is used to accurately identify and differentiate individuals with the same first and last names within the EHR software. |
| NextOfKin..patient_title       | String | The patient_title member is used to store the title or honorific prefix (such as Mr, Mrs, Dr) associated with a patient's name in the EHR software.   |
| NextOfKin..patient_work_phone  | String | The patient_work_phone member is a String type member in the Patient class  |

|                        |          |   |
|------------------------|----------|---|
|                        |          | and is used to store the work phone number of a patient in an Electronic Health Record (EHR) system.  |
| NextOfKin..patient_zip | String   | The patient_zip member of type String in the Patient class is used to store the postal zip code of the patient's address.   |
| NextOfKin..recall_type | Int32    | The recall_type member of the Patient type is used to indicate the type of recall or reminder that is associated with the patient. It is used in an EHR software to track and manage patient reminders for follow-up appointments, screenings, or other healthcare interventions. |
| NextOfKin..ssn         | String   | The ssn member of String Type is used to store the Social Security Number (SSN) of a patient in the EHR software.   |
| NextOfKin..updated     | Boolean  | The updated member of Boolean Type in the Patient Type is used to indicate whether the patient information has been recently updated or not in the EHR software.  |
| NextOfKin..ws_updated  | String   | The ws_updated member of the Patient type is used to track the last time the patient's information was updated in the EHR software.   |
| NextOfKin..reportVals  | String[] | The reportVals member of type String[] in the Patient class is used to store the  |

|                            |        |  |
|----------------------------|--------|--|
|                            |        | values of various reports or test results associated with the patient.   |
| NextOfKin..reportVals.     | String | The member of String Type within the String[] Type is used to store a collection of strings that represent data related to a specific attribute or property of an instance of the String[] Type. This allows for multiple string values to be associated with the same attribute or property, providing flexibility in storing and accessing data in the EHR software. |
| NextOfKin..updateTypeHL7   | Char   | The updateTypeHL7 member of Char Type in the Patient Type is used to indicate the type of update being made to the patient's record in the HL7 format.   |
| NextOfKin..mergedAcctid    | Int32  | The mergedAcctid member is used to store the merged account ID of a patient in the EHR software.   |
| NextOfKin..givenNamesOther | String | The givenNamesOther member in the Patient type is used to store additional given names or middle names of the patient, if applicable.  |
| NextOfKin..patientHL7Xml   | String | The patientHL7Xml member is a serialized XML representation of a patient's health information in HL7 format. It is used for interoperability and integration purposes, allowing the EHR software to exchange patient data with   |

|                              |        |   |
|------------------------------|--------|---|
|                              |        | other healthcare systems that support the HL7 standard.   |
| NextOfKin..nameType          | Char   | The nameType member of type Char in the Patient class is used to indicate the type or category of name associated with the patient.   |
| NextOfKin..addressType       | String | The addressType member in the Patient type is used to indicate the type or category of the patient's address, such as "Home", "Work", or "Billing". This allows for the organization and classification of different addresses associated with the patient in the EHR software. |
| NextOfKin..countyParishCode  | String | The countyParishCode member in the Patient type is a string that represents the code for the county or parish where the patient resides. It is used for demographic or geographic purposes within the EHR software, such as determining jurisdiction or regional analysis.      |
| NextOfKin..country           | String | The country member of String Type in the Patient Type is used to store the country of residence or citizenship of the patient in the EHR software.  |
| NextOfKin..phoneNumberType   | String | The phoneNumberType member in the Patient Type is used to store the type or category of the patient's phone number.   |
| NextOfKin..primaryCommDevice | String | The primaryCommDevice   |

|                               |         |   |
|-------------------------------|---------|---|
|                               |         | member of type String in the Patient class is used to store the primary communication device for the patient, such as a phone number or email address.  |
| NextOfKin..deathIndicator     | Boolean | The deathIndicator member of Boolean Type is used to indicate whether or not the patient is deceased.   |
| NextOfKin..authusers          | String  | The authusers member of the Patient Type is used to store information related to the authorized users or individuals who have access to the patient's electronic health record (EHR) data.  |
| NextOfKin..publicityIndicator | Boolean | The publicityIndicator member of Boolean Type in the Patient Type is used to indicate whether or not the patient has consented to have their medical information shared for public or marketing purposes.   |
| NextOfKin..publicityType      | String  | The publicityType member of the Patient Type is a string that indicates the type of publicity or visibility that a patient has chosen for their health information. The possible values could represent options such as "public", "private", or "restricted". This information is used to control the sharing and dissemination of the patient's health data within the EHR software. |

|                                   |         |   |
|-----------------------------------|---------|---|
| NextOfKin..protectionIndicator    | Boolean | The protectionIndicator member of Boolean Type in the Patient Type is used to indicate whether a patient has a protection status set in the EHR software.                       |
| NextOfKin..protectionType         | String  | The protectionType member of the Patient Type in the EHR software is used to indicate the type of protection or privacy measures applied to the patient's data.                 |
| NextOfKin..hl7OptinIndicator      | Boolean | The hl7OptinIndicator member of Boolean Type in the Patient Type is used to indicate whether a patient has opted in to the HL7 data exchange.                                   |
| NextOfKin..immzRegistryStatusType | String  | The immzRegistryStatusType member in the Patient class is used to indicate the status of the patient in the immunization registry.  |
| NextOfKin..mothersFirstName       | String  | The mothersFirstName member in the Patient Type is used to store the first name of the patient's mother. It is used for identification purposes or for medical history records. |
| NextOfKin..mothersMaidenName      | String  | The mothersMaidenName member in the Patient type is used to store the maiden name of the patient's mother.  |
| NextOfKin..multipleBirth          | String  | The "multipleBirth" member of type String in the Patient class is used to indicate whether the patient is part of a multiple birth (e.g., twins,                                |



|                          |         |  |
|--------------------------|---------|--|
|                          |         | triplets).   |
| NextOfKin..birthOrder    | String  | The birthOrder member of type String in the Patient class is used to represent the birth order of a patient, indicating their position among their siblings in terms of when they were born. |
| NextOfKin..birthName     | String  | The birthName member is used to store the name of a patient at birth in the EHR system.  |
| NextOfKin..isTestPatient | Boolean | The isTestPatient member in the Patient type is a boolean flag used to indicate whether the patient record pertains to a test patient or a real patient.                                     |
| NextOfKin..delete        | Boolean | The delete member of Boolean Type in the Patient Type is used to indicate whether a patient record should be deleted or not in the EHR software.   |
| NextOfKin..tableName     | String  | The tableName member of the Patient Type is used to store the name of the table in the database where patient information is stored.   |
| NameType                 | String  | The NameType member in the Immunization type is used to specify the type of name associated with the immunization.   |
| Index                    | Int32   | The Index member of type Int32 in the Immunization class is used to store the index position of the  |

|         |          |   |
|---------|----------|---|
|         |          | immunization object within a collection or array.   |
| DateSet | Boolean  | The DateSet member of the Boolean Type in the Immunization Type is used to indicate whether the Date property of an immunization has been set or not. |
| Date    | DateTime | The Date member of the DateTime Type in the Immunization Type is used to store the date when the immunization was administered or recorded.           |

## Medication Order - "ehr\_file" CSV Export

The ehr\_file table is used to store Medication Orders in an Electronic Health Record (EHR) system. It contains columns to store information such as the patient ID, type of medication, date and time of the order, the actual medication data, and the last time the record was modified. Other columns such as employee ID and location ID may be used to track the healthcare professional and the location where the order was made. The table also includes columns related to identifying patient education resources and tracking the upload status of the order. The primary key is the fid column, which uniquely identifies each medication order record in the table.

| Column Name            | Data Type                   | Description  | Extraction Method               |
|------------------------|-----------------------------|--|---------------------------------|
| fid                    | int                         | The fid column is a unique identifier for each record in the ehr_file table.   | CSV                             |
| acctid                 | int                         | The acctid column is the unique patient ID from the 'patients' table.  | CSV                             |
| type                   | int                         | The type column represents the type of EHR file.   | CSV                             |
| datet                  | datetime<br>default<br>NULL | The 'datet' column in the 'ehr_file' table represents the date and time when the file was created or modified.   | CSV                             |
| data                   | longblob                    | The `data` column is a large binary object that stores the actual content of the electronic health record file.  | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column is a datetime field that records the date and time when the file was last modified.  | CSV                             |
| empid                  | int                         | The empid column is the unique identifier for an employee in the database.   | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column is a Boolean flag indicating whether the file is identified as a patient education resource. It is used to categorize files that contain educational | CSV                             |

|                             |                             |   |     |
|-----------------------------|-----------------------------|---|-----|
|                             |                             | resources specifically for patients.  |     |
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column represents the date and time when the identification of patient education resources was completed. | CSV |
| locid                       | int                         | The 'locid' column is the unique location ID from the 'locations' table.  | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for a specific patient.  | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column is the datetime when the patient data was last uploaded.   | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a string of 32 characters that serves as a unique identifier for a record inserted into the ehr_file table.     | CSV |
| created_datetime            | datetime<br>default<br>NULL | created_datetime is a column that stores the date and time when the EHR file was created.   | CSV |
| sub_type                    | int                         | The sub_type column represents a specific sub category or classification associated with the type of electronic health record (EHR) file. | CSV |

## StructuredProductType Type

The StructuredProductType Type is a data structure used in an Electronic Health Record (EHR) software to store information about medication orders. It contains various lists, such as the list of medications, quantities, directions, patient instructions, fulfillment instructions, refills, and fulfillment history. It also includes other details such as series number, consent information, reaction, identifiers, and status. This Type is used to capture and manage medication-related data in the EHR system. A StructuredProductType is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name          | Type                               | Description  |
|----------------------|------------------------------------|--|
|                      | StructuredProductType              | The "Product" member of the StructuredProductType Type is used to store information about the specific medication or medical product associated with a medication order in an EHR software system.   |
| Product              | List<StructuredProductTypeProduct> | The Product member of the List<StructuredProductTypeProduct> Type is used to store information about a medication product, including its name, brand name, strength, form, concentration, size, manufacturer, and any associated IDs or modifiers. |
| Product.             | StructuredProductTypeProduct       | The member "ProductName" of the StructuredProductTypeProduct Type is used to store the name of the product being ordered or prescribed in an electronic health record (EHR) software.  |
| Product..ProductName | CodedDescriptionType               | The ProductName member of CodedDescriptionType Type is a text field that represents the  |

|   |   |   |
|---|---|---|
|   |   | name of the product associated with a medication order in an EHR software.  |
| Product..ProductName.Text                       | String                                    | The Text member of String Type in the CodedDescriptionType Type is used to store a textual description or label associated with a coded value or code system.   |
| Product..ProductName.ObjectAttribute            | List<CodedDescriptionTypeObjectAttribute> | The ObjectAttribute member of the List<CodedDescriptionTypeObjectAttribute> type is used to store additional attributes or properties associated with the coded description. It provides a way to add more specific information or characteristics to the description, such as qualifiers or modifiers.               |
| Product..ProductName.ObjectAttribute.           | CodedDescriptionTypeObjectAttribute       | The member of CodedDescriptionTypeObjectAttribute Type, which is a member of the List<CodedDescriptionTypeObjectAttribute> Type, is used to store attribute and attribute value information for an object within the EHR software. It allows for the categorization and description of various aspects of the object. |
| Product..ProductName.ObjectAttribute..Attribute | String                                    | The Attribute member of String Type in the CodedDescriptionTypeObjectAttribute Type is used to store a specific attribute related to a coded description.   |
| Product..ProductName.ObjectAttribute..          | List<CodedDescriptionTypeObj              | The AttributeValue member of  |

|   |   |   |
|---|---|---|
| AttributeValue  | ectAttributeAttributeValue>                       | List<CodedDescriptionTypeObjectAttributeAttributeValue> represents the possible values for an attribute of an object in the CodedDescriptionTypeObjectAttribute type. These values are used to define and categorize the attribute of the object within the EHR software. |
| Product..ProductName.ObjectAttribute..AttributeValue.       | CodedDescriptionTypeObjectAttributeAttributeValue | The member of CodedDescriptionTypeObjectAttributeAttributeValue Type, which is a member of the List<CodedDescriptionTypeObjectAttributeAttributeValue> Type, is used to store a value and associated codes for an attribute of an object in the EHR software.             |
| Product..ProductName.ObjectAttribute..AttributeValue..Value | Object  | The Value member of the Object Type in the CodedDescriptionTypeObjectAttributeAttributeValue Type is used to store the actual value or data of an attribute or property.  |
| Product..ProductName.ObjectAttribute..AttributeValue..Code  | List<CodeType>                                    | The Code member of the List<CodeType> type is used to store the code value associated with a specific attribute or attribute value in a coded description. It represents a standardized identifier or classification system for the attribute or attribute value.         |
| Product..ProductName.ObjectAttribute..AttributeValue..Code. | CodeType  | The member of CodeType Type, which is a member of the List<CodeType> Type, is used to store coded values  |

|  |                |  |
|--|----------------|--|
|  |                | that represent specific healthcare concepts or terminology. These codes are commonly used in electronic health records to accurately capture and exchange healthcare information.  |
| Product..ProductName.ObjectAttribute..AttributeValue..Code..Value        | String         | The Value member of the String type is used to store the actual value or content of a code in a code system within the CodeType. It represents a specific code value that is used to identify or classify data related to EHR software.  |
| Product..ProductName.ObjectAttribute..AttributeValue..Code..CodingSystem | String         | The CodingSystem member of String Type in the CodeType Type is used to indicate the coding system or standard that is used for the value in the CodeType. It provides information on the source or format of the code value, such as SNOMED CT or ICD-10.                                      |
| Product..ProductName.ObjectAttribute..AttributeValue..Code..Version      | String         | The Version member of String Type in the CodeType Type is used to represent the version of the coding system being used for a particular code value.   |
| Product..ProductName.ObjectAttribute..Code                               | List<CodeType> | The Code member of List<CodeType> in the CodedDescriptionTypeObjectAttribute Type is used to store a specific code value that represents a particular attribute or attribute value in the structured product information. This code is typically used to standardize the representation of the |



|                           |  |  |
|---------------------------|--|--|
|                           |  | attribute or attribute value in the EHR software.  |
| Product..ProductName.Code | List<CodeType>                             | The Code member of the List<CodeType> type is used to store the coded value associated with a description or a product in the EHR software. It represents a specific code value from a coding system, such as an industry-standard medical coding system like SNOMED CT or LOINC.      |
| Product..BrandName        | CodedDescriptionType                       | The BrandName member of the CodedDescriptionType Type in the StructuredProductTypeProduct Type is used to store the brand name of a medication product.  |
| Product..Strength         | List<StructuredProductTypeProductStrength> | The Strength member of the List<StructuredProductTypeProductStrength> Type is used to specify the strength of a medication or product. It may indicate the concentration or potency of the active ingredient in the medication.  |
| Product..Strength.        | StructuredProductTypeProductStrength       | The member "StrengthSequencePosition" in the StructuredProductTypeProductStrength type represents the position of the strength sequence in a list of product strengths. It is used to determine the order or ranking of different product strengths when they are listed or displayed. |

|   |                      |  |
|---|----------------------|--|
| Product..Strength..StrengthSequencePosition | String               | The StrengthSequencePosition member of the StructuredProductTypeProduct Strength type is a string that represents the sequence position of the strength value within a structured product. It is used to indicate the position of the strength value in relation to other strength values associated with the product. |
| Product..Strength..VariableStrengthModifier | CodedDescriptionType | The VariableStrengthModifier member of CodedDescriptionType type is used to specify any variable or modifier associated with the strength of a product.  |
| Product..Strength..Value                    | String               | The Value member of String Type in the StructuredProductTypeProduct Strength Type is used to store the numerical value of the strength of a product, such as the dosage strength of a medication.  |
| Product..Strength..Units                    | MeasureTypeUnits     | The Units member of the MeasureTypeUnits Type represents the unit of measurement for the strength of a product within the StructuredProductTypeProduct Strength Type. It is used to specify the measurement scale or metric associated with the strength value, such as milligrams (mg) or milliliters (ml).           |
| Product..Strength..Units.Unit               | String               | The Unit member of String Type in the MeasureTypeUnits Type is used to represent the   |

|                               |  |  |
|-------------------------------|--|--|
|                               |  | unit of measurement for a particular measure. It specifies the type of measurement used in the context of electronic health record software.   |
| Product..Strength..Units.Code | List<CodeType>                         | The Code member of the List<CodeType> Type is used to store a specific code associated with a particular unit of measure. This code could be used to identify the unit of measure in a standardized coding system, such as LOINC or SNOMED CT, to ensure interoperability and consistency in healthcare data exchange. |
| Product..Strength..Code       | List<CodeType>                         | The Code member of List<CodeType> is used to represent the code value for a specific attribute or element within the structured product. It is used for standardizing and identifying different attributes or elements of the product, such as strength or dosage.   |
| Product..Form                 | List<StructuredProductTypeProductForm> | The Form member of the List<StructuredProductTypeProductForm> Type is used to specify the form of the medication product, such as tablet, capsule, liquid, or cream. It provides information about the physical form in which the medication is available for administration to the patient.                           |
| Product..Form.                | StructuredProductTypeProductForm       | The member "FormSequencePosition" of the StructuredProductTypeProduct  |

|                                     |   |   |
|-------------------------------------|---|---|
|                                     |   | Form Type is used to specify the position of a form within a sequence.  |
| Product..Form..FormSequencePosition | String                                    | The FormSequencePosition member of String Type in the StructuredProductTypeProduct Form Type is used to indicate the position or sequence of a specific form within a series of multiple forms associated with a product.   |
| Product..Form..MultipleFormModifier | CodedDescriptionType                      | The MultipleFormModifier member of the CodedDescriptionType Type in the StructuredProductTypeProduct Form Type is used to indicate any modifier associated with the multiple forms of a product.  |
| Product..Form..Text                 | String                                    | The Text member of String Type in the StructuredProductTypeProduct Form Type is used to store the textual representation of the product form, such as a label or description, in the electronic health record (EHR) software.   |
| Product..Form..ObjectAttribute      | List<CodedDescriptionTypeObjectAttribute> | The ObjectAttribute member of List<CodedDescriptionTypeObjectAttribute> is used to provide additional attributes or characteristics of the product form in the context of an electronic health record (EHR) software. It may contain information such as the physical attributes, composition, or properties of |

|   |   |   |
|---|---|---|
|   |   | the product form.   |
| Product..Form..Code                                   | List<CodeType>                                  | The Code member of the List<CodeType> type is used to store a specific code value associated with a product form. This code value is used for identification or classification purposes within the EHR software.  |
| Product..Concentration                                | List<StructuredProductTypeProductConcentration> | The Concentration member of the List<StructuredProductTypeProductConcentration> Type in the EHR software is used to specify the concentration of a particular product within the medication order. It provides information about the amount of the active ingredient or substance per unit of volume or weight in the medication. |
| Product..Concentration.                               | StructuredProductTypeProductConcentration       | The member ConcentrationSequencePosition of the StructuredProductTypeProductConcentration type is used to specify the position or sequence of the concentration in a list of concentrations associated with a product.  |
| Product..Concentration..ConcentrationSequencePosition | String  | The ConcentrationSequencePosition member of the StructuredProductTypeProductConcentration Type is a string value that represents the position of the concentration sequence for a product. It is used to specify the order or sequence in which different concentrations are applied or   |

|   |  |   |
|---|--|---|
|   |  | administered in a medication or product.  |
| Product..Concentration..VariableConcentrationModifier | CodedDescriptionType                   | The VariableConcentrationModifier member of the CodedDescriptionType is a modifier used to describe the variable concentration of a product in the StructuredProductTypeProduct Concentration. It provides additional information about the concentration sequence or pattern of the product. |
| Product..Concentration..Value                         | String                                 | The Value member of the StructuredProductTypeProduct Concentration Type represents the numerical value of the concentration of a product. It is used to specify the amount or strength of a particular substance in a medication or product.  |
| Product..Concentration..Units                         | MeasureTypeUnits                       | The Units member of the MeasureTypeUnits Type in the StructuredProductTypeProduct Concentration Type is used to represent the unit of measurement for the concentration value of a medication product.  |
| Product..Concentration..Code                          | List<CodeType>                         | The Code member of the List<CodeType> type is used to store a specific code value that represents a concept or item in a standardized coding system, such as SNOMED CT or LOINC.  |
| Product..Size   | List<StructuredProductTypeProductSize> | The Size member of the List<StructuredProductTypeProductSize> type in the   |

|                            |   |  |
|----------------------------|---|--|
|                            |   | StructuredProductTypeProduct type is used to store information about the size of a specific product, such as the dimensions and text describing the size. It is used to provide detailed information about the physical characteristics of the product.  |
| Product..Size.             | StructuredProductTypeProductSize                | The member "Dimensions" in the StructuredProductTypeProductSize Type represents the dimensions of a product size. It is used to store information about the height, width, and length of a product in the EHR software.  |
| Product..Size..Dimensions  | List<StructuredProductTypeProductSizeDimension> | The Dimensions member of the List<StructuredProductTypeProductSizeDimension> Type represents the dimensions of a product or medication. It includes information such as the description of each dimension, its corresponding value, and the units of measurement used. This information is used to specify the size or physical attributes of the product or medication, allowing for accurate measurement and administration. |
| Product..Size..Dimensions. | StructuredProductTypeProductSizeDimension       | The member of StructuredProductTypeProductSizeDimension Type in the List<StructuredProductTypeProductSizeDimension> is used to store the description, value, units, and codes for the size   |

|  |                      |   |
|--|----------------------|---|
|  |                      | dimensions of a product in a medication order record in an EHR software.  |
| Product..Size..Dimensions..Description | CodedDescriptionType | The Description member of the CodedDescriptionType type is used to provide a text description or label for a particular element or attribute within the structured product. It helps to provide additional information or details about the specific element or attribute within the product. |
| Product..Size..Dimensions..Value       | String               | The Value member of the String Type in the StructuredProductTypeProductSizeDimension Type is used to represent the numerical value of the size dimension of a product, such as the length, width, or height.  |
| Product..Size..Dimensions..Units       | MeasureTypeUnits     | The Units member of the MeasureTypeUnits Type in the StructuredProductTypeProductSizeDimension Type is used to represent the units of measurement for a value associated with the size dimension of a product.  |
| Product..Size..Dimensions..Code        | List<CodeType>       | The Code member of the List<CodeType> type is used to store a code value that represents a specific product or item within the healthcare system. It can be used for identification, classification, or to indicate specific attributes or characteristics of the product or item.            |



|                                     |   |   |
|-------------------------------------|---|---|
| Product..Size..SizeSequencePosition | String                                    | The SizeSequencePosition member of the StructuredProductTypeProduct Size Type is a string value that represents the sequence position of a size in relation to other sizes within a product. It is used to indicate the order or position of a specific size within a list or collection of sizes associated with a product.          |
| Product..Size..VariableSizeModifier | CodedDescriptionType                      | The VariableSizeModifier member of the CodedDescriptionType Type in the StructuredProductTypeProduct Size Type is a modifier that describes a variable size attribute of a product. It is used to provide additional details or specifications about the size of a particular product in the electronic health record (EHR) software. |
| Product..Size..Text                 | String                                    | The Text member of the String Type in the StructuredProductTypeProduct Size Type is used to store additional descriptive text about the size of a product within an EHR software.   |
| Product..Size..ObjectAttribute      | List<CodedDescriptionTypeObjectAttribute> | The ObjectAttribute member of the List<CodedDescriptionTypeObjectAttribute> type in the StructuredProductTypeProduct Size type within the EHR software is used to store the attributes associated with a particular object or product in the context of medication  |

|                                 |                            |  |
|---------------------------------|----------------------------|--|
|                                 |                            | orders. These attributes can include specific properties or characteristics of the product, such as dosage, strength, form, or any other relevant information.   |
| Product..Size..Code             | List<CodeType>             | The Code member of the List<CodeType> type is used to store a specific code value associated with a product size. It may represent a standardized coding system or terminology used in the healthcare industry to identify and classify different sizes of products.   |
| Product..Manufacturer           | ActorReferenceType         | The Manufacturer member of the ActorReferenceType type is used to specify the manufacturer of a medication product in an Electronic Health Record (EHR) system.  |
| Product..Manufacturer.ActorID   | String                     | The ActorID member of String Type in the ActorReferenceType Type is used to store a unique identifier for an actor involved in the electronic health record (EHR) system. The identifier could be used to reference specific individuals or entities such as healthcare providers or patients within the EHR system. |
| Product..Manufacturer.ActorRole | List<CodedDescriptionType> | The ActorRole member of the List<CodedDescriptionType> type in the ActorReferenceType type is used to describe the role or function of an actor in the EHR system. It provides additional  |

|                                  |                      |   |
|----------------------------------|----------------------|---|
|                                  |                      | information about the specific role or responsibility associated with the actor referenced in the ActorID member.   |
| Product..Manufacturer.ActorRole. | CodedDescriptionType | The member of the CodedDescriptionType Type is used to store textual descriptions related to a medication order in the EHR software.  |
| Product..IDs                     | List<IDType>         | The IDs member of List<IDType> Type in the StructuredProductTypeProduct Type is used to store identification information associated with a medication product. It could include identifiers such as National Drug Code (NDC), Unique Product Identifier (UPI), or other product-specific identifiers. |
| Product..IDs.                    | IDType               | The member of the IDType Type is used to store identification information, such as a unique identifier or code, along with relevant metadata such as the type of identification and the issuer.   |
| Product..IDs..DateTime           | List<DateTimeType>   | The DateTime member of List<DateTimeType> Type in the IDType Type is used to store and represent various dates and times related to an ID, such as the issuance date and time, the date and time of any updates or modifications, or any other relevant timestamps associated with                    |

|                                       |                      |  |
|---------------------------------------|----------------------|--|
|                                       |                      | the ID.  |
| Product..IDs..DateTime.               | DateTimeType         | The ExactDateTime member of the DateTimeType Type is used to represent the exact date and time associated with a medication order or event in the electronic health record.  |
| Product..IDs..DateTime..Type          | CodedDescriptionType | The Type member of the CodedDescriptionType type in the DateTimeType type is used to represent the type or category of a coded description or text in the context of an electronic health record (EHR) system. It provides additional context or classification for the information or data stored in the Text member. |
| Product..IDs..DateTime..ExactDateTime | String               | The ExactDateTime member of String Type in the DateTimeType Type is used to specify the exact date and time associated with a specific event or observation in the electronic health record (EHR) software.  |
| Product..IDs..DateTime..Age           | MeasureType          | The Age member of the MeasureType type in the DateTimeType type is used to represent the age of an individual at a specific date and time within the EHR software. It provides a measure value and units to indicate the person's age.   |
| Product..IDs..DateTime..Age.Value     | String               | The Value member of String Type is a string that represents the numerical value of a measurement in the  |

|   |                                 |   |
|---|---------------------------------|---|
|   |                                 | MeasureType Type. It is used to store the actual measurement value, such as the dosage of a medication or the result of a laboratory test.  |
| Product..IDs..DateTime..Age.Units           | MeasureTypeUnits                | The Units member of MeasureTypeUnits Type is used to specify the unit of measurement associated with a particular measure or value in the EHR software.   |
| Product..IDs..DateTime..Age.Code            | List<CodeType>                  | The Code member of the CodeType class is used to store a specific code value that represents a medical concept, such as a medication or a medical condition. This code value is typically based on a standardized coding system, such as SNOMED CT or ICD-10-CM, and may be used to uniquely identify and classify the medical concept in electronic health records (EHRs). |
| Product..IDs..DateTime..ApproximateDateTime | CodedDescriptionType            | The ApproximateDateTime member of the CodedDescriptionType type in the DateTimeType type is used to provide an approximate or estimated date and time. It is used when the exact date and time are not available or when there is uncertainty regarding the accuracy of the provided information.   |
| Product..IDs..DateTime..DateTimeRange       | List<DateTimeTypeDateTimeRange> | The DateTimeRange member of the List<DateTimeTypeDateTimeRange> type is used to represent a range of dates and times. It  |

|   |   |  |
|---|---|--|
|   |   | allows for specifying a beginning range and an end range, which can be used to indicate a period of time or duration associated with a particular event or action in the electronic health record (EHR) software.  |
| Product..IDs..DateTime..DateTimeRange                               | DateTimeTypeDateTimeRange               | The member of DateTimeTypeDateTimeRange type, which is a member of the List<DateTimeTypeDateTimeRange> type, is used to represent a range of date and time values within the EHR software.   |
| Product..IDs..DateTime..DateTimeRange<br>..BeginRange               | DateTimeTypeDateTimeRange<br>BeginRange | The BeginRange member of the DateTimeTypeDateTimeRange BeginRange type represents the starting point or beginning of a date and time range for a specific event or occurrence related to medication orders in an EHR software. It may include an exact date and time, an age, or an approximate date and time.   |
| Product..IDs..DateTime..DateTimeRange<br>..BeginRange.ExactDateTime | String                                  | The ExactDateTime member of String Type represents the exact date and time for a specific event or action recorded in the electronic health record (EHR) system. It is used to provide precise timestamps for various activities, such as medication orders or administration, appointments, or test results, ensuring accurate documentation and tracking |

|   |                                       |   |
|---|---------------------------------------|---|
|   |                                       | within the EHR.   |
| Product..IDs..DateTime..DateTimeRange<br>..BeginRange.Age                 | MeasureType                           | The Age member of the MeasureType Type is used to represent the age of an individual in reference to a specific event or point in time. It provides a value and units to indicate the length of time since the event or point in time.                              |
| Product..IDs..DateTime..DateTimeRange<br>..BeginRange.ApproximateDateTime | CodedDescriptionType                  | The ApproximateDateTime member of the CodedDescriptionType type is used to indicate an estimated or approximate date and time within a DateTimeRangeBeginRange. This could be used in cases where the exact date and time is not known or is only an approximation. |
| Product..IDs..DateTime..DateTimeRange<br>..EndRange                       | DateTimeTypeDateTimeRange<br>EndRange | The EndRange member of the DateTimeTypeDateTimeRange EndRange Type is used to specify the end point or limit of a time range for a particular date or event. It can be either an exact datetime, an age, or an approximate datetime.                                |
| Product..IDs..DateTime..DateTimeRange<br>..EndRange.ExactDateTime         | String                                | The ExactDateTime member of String Type in the DateTimeTypeDateTimeRange EndRange Type is used to store the precise date and time information in the EHR software.  |
| Product..IDs..DateTime..DateTimeRange<br>..EndRange.Age                   | MeasureType                           | The Age member of the MeasureType Type represents the age of a person in the context of the   |

|   |                      |   |
|---|----------------------|---|
|   |                      | DateTimeRangeEndRange Type. It is used to specify the age in years, months, or other units when defining a range of time for a particular event or status in the Electronic Health Record (EHR) software.   |
| Product..IDs..DateTime..DateTimeRange..EndRange.ApproximateDateTime | CodedDescriptionType | The ApproximateDateTime member of the CodedDescriptionType Type within the DateTimeTypeDateTimeRangeEndRange Type is used to capture an approximate or estimated date and time value within an Electronic Health Record (EHR) software system. It provides a way to indicate that the exact date and time may not be known or is approximate, but still important for documentation purposes. |
| Product..IDs..Type  | CodedDescriptionType | The Type member of the CodedDescriptionType Type, which is a member of the IDType Type, is used to specify the type or category of the coded description. It provides additional information about the meaning or purpose of the coded description.   |
| Product..IDs..ID  | String               | The ID member of type String in the IDType class is used to store a unique identifier for the specific ID, such as a patient ID, prescription ID, or any other relevant identifier within the EHR system.   |
| Product..IDs..IssuedBy  | ActorReferenceType   | The IssuedBy member of the ActorReferenceType type is   |



|                                   |                          |  |
|-----------------------------------|--------------------------|--|
|                                   |                          | used to identify the actor who issued the ID.  |
| Product..IDs..Source              | List<SourceType>         | The Source member of the List<SourceType> type is used to represent the source or origin of the IDType data. It may include information about the entity or system that generated or provided the ID, such as a healthcare provider or an external reference system.   |
| Product..IDs..Source.             | SourceType               | The member of the SourceType type, which is a member of the List<SourceType> type, is used to represent the source or origin of the medication order, including the description of the source, the actor or entity responsible for the order, the date and time of the order, and any reference or comment associated with the order.                      |
| Product..IDs..Source..Description | CodedDescriptionType     | The Description member of the CodedDescriptionType Type is used to provide a text description or explanation for the associated data or object.  |
| Product..IDs..Source..Actor       | List<ActorReferenceType> | The Actor member of List<ActorReferenceType> Type in the SourceType Type is used to represent the role or identity of the individual or entity associated with the source of the medication order in an Electronic Health Record (EHR) system. It could include information such as the ID of the actor and their specific role or roles in the medication |

|                                    |                       |   |
|------------------------------------|-----------------------|---|
|                                    |                       | order process.  |
| Product..IDs..Source..Actor.       | ActorReferenceType    | The member of ActorReferenceType, which is a member of the List<ActorReferenceType> type, is used to reference a specific actor within the electronic health record system. It may contain an actor ID and a list of actor roles, providing information about the identity and roles of individuals involved in the EHR system. |
| Product..IDs..Source..DateTime     | DateTimeType          | The DateTime member of the DateTimeType Type is used to store information related to the date and time of a specific event or data entry in the EHR software.   |
| Product..IDs..Source..ReferenceID  | List<String>          | The ReferenceID member is used in the EHR software to refer to the ID or identifier associated with a specific reference or document related to the source of the structured product information.   |
| Product..IDs..Source..ReferenceID. | String                | The member of String Type in the List<String> Type is used to store a string value.   |
| Product..IDs..Source..CommentID    | List<String>          | The CommentID member of the List<String> Type in the SourceType Type is used to store additional comments or notes related to the source of the medication order data in an Electronic Health Record (EHR) system.  |
| Product..IDs..InternalCCRLink      | List<InternalCCRLink> | The InternalCCRLink member  |

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|---|-----------------------|---|
|   |                       | of the List<InternalCCRLink> Type in the IDType Type is used to store internal links or references related to the electronic health record (EHR) data. These internal links could be used for linking different data elements within the EHR system or establishing relationships between different components of the patient's health information. It may function as a way to connect and retrieve related information efficiently within the EHR software. |
| Product..IDs..InternalCCRLink.                  | InternalCCRLink       | The member "LinkID" is a unique identifier that links the InternalCCRLink to a specific record or resource within the EHR system.   |
| Product..IDs..InternalCCRLink..LinkID           | String                | The LinkID member of String Type in the InternalCCRLink Type is used to uniquely identify a link within an electronic health record (EHR) system.   |
| Product..IDs..InternalCCRLink..LinkRelationship | List<String>          | The LinkRelationship member of the InternalCCRLink type is used to specify the relationship between the current InternalCCRLink and another CCR link within the electronic health record (EHR) software.  |
| Product..IDs..InternalCCRLink..Source           | InternalCCRLinkSource | The Source member of the InternalCCRLinkSource Type is used to provide information about the source or origin of the internal CCR link. It could include details such as the  |

|   |                          |  |
|---|--------------------------|--|
|   |                          | description of the source, actors involved, date and time of the source, and any reference or comment IDs associated with it.  |
| Product..IDs..InternalCCRLink..Source.Description | CodedDescriptionType     | The `Description` member of the `CodedDescriptionType` type is used to provide a textual description or explanation of a coded value. It typically provides additional information or clarification about the associated data element or code.   |
| Product..IDs..InternalCCRLink..Source.Actor       | List<ActorReferenceType> | The Actor member of the List<ActorReferenceType> type is used to represent the person or entity who is associated with a specific role or responsibility within the healthcare system. This could include healthcare providers, caregivers, administrators, or other individuals involved in the patient's care. |
| Product..IDs..InternalCCRLink..Source.DateTime    | DateTimeType             | The DateTimeType member of the DateTimeType Type is used to represent the exact date and time of a specific event or action within the EHR software.   |
| Product..IDs..InternalCCRLink..Source.ReferenceID | List<String>             | The ReferenceID member of the List<String> Type in the InternalCCRLinkSource Type is used to store unique identifiers or references to other related data or documents within the EHR system.  |

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|---|-----------------------|---|
| Product..IDs..InternalCCRLink..Source.CommentID | List<String>          | The CommentID member of the InternalCCRLinkSource type is used to store unique identifiers or references to comments related to the internal CCR link.  |
| Product..IDs..ReferenceID                       | List<String>          | The ReferenceID member of the List<String> type in the IDType class represents a unique identifier or reference to another data element within the EHR software system. This identifier is used to establish relationships or associations between different data elements, allowing for easy retrieval and linking of related information. |
| Product..IDs..CommentID                         | List<String>          | The CommentID member of the List<String> Type in the IDType is used to store any comments or additional information related to the ID.  |
| Product..IDs..Signature                         | List<IDTypeSignature> | The Signature member of List<IDTypeSignature> Type is used to store the digital signature of the IDType object.   |
| Product..IDs..Signature.                        | IDTypeSignature       | The member "SignatureID" within the IDTypeSignature type is used to store the unique identifier or reference to a signature associated with a specific document or action within the electronic health record (EHR) system.   |
| Product..IDs..Signature..SignatureID            | String                | The SignatureID member of type String within the IDTypeSignature class is used to uniquely identify a signature within an electronic health   |

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|                                  |                      | record (EHR) system. It may be used to associate a specific signature with a medication order or other important healthcare document, allowing for verification and authentication of the signature within the EHR system.  |
| Product..ProductSequencePosition | String               | The ProductSequencePosition member of type String in the StructuredProductTypeProduct class is used to represent the position or order of the product in a sequence or list. It may be used to indicate the specific position of the product within a set of related products or to determine the order in which the products should be administered or dispensed.  |
| Product..MultipleProductModifier | CodedDescriptionType | The MultipleProductModifier member of the CodedDescriptionType type is a text field that indicates any additional modifier or qualifier associated with the product. It is used to provide further description or classification of the product, potentially highlighting specific attributes or characteristics that differentiate it from other similar products. |
| Quantity                         | List<QuantityType>   | The Quantity member of the List<QuantityType> type is used to represent the quantity associated with a medication order in an EHR software. It includes information such as the value of the quantity, the units of measurement, and any  |

|                                    |                      |   |
|------------------------------------|----------------------|---|
|                                    |                      | relevant codes.   |
| Quantity.                          | QuantityType         | The member of the QuantityType Type in the List<QuantityType> Type is used to represent the quantity of a medication or product.  |
| Quantity..QuantitySequencePosition | String               | The QuantitySequencePosition member of the QuantityType Type is used to indicate the position or sequence of a quantity within a list or series of quantities.  |
| Quantity..VariableQuantityModifier | CodedDescriptionType | The VariableQuantityModifier member of the CodedDescriptionType type is used to provide additional information or modifiers for the quantity value in the QuantityType type. It is used to specify any variations or adjustments to the quantity of a medication order, such as dosage changes or specific instructions for administration. |
| Quantity..Value                    | String               | The Value member of String Type in the QuantityType is used to represent the numerical value of a quantity, such as the dosage or amount, in a medication order.  |
| Quantity..Units                    | MeasureTypeUnits     | The Units member of the MeasureTypeUnits Type is used to store the unit of measurement for the quantity of a medication.  |
| Quantity..Code                     | List<CodeType>       | The Code member of the List<CodeType> type is used to store a code value that represents a specific quantity  |

|                           |                      |  |
|---------------------------|----------------------|--|
|                           |                      | or measurement. It is typically used in conjunction with the Value and Units members to provide more detailed information about the quantity being measured.   |
| Directions                | List<Direction>      | The Directions member of the List<Direction> Type in the StructuredProductType Type is used to store the specific instructions or guidance for administering or using a medication. This includes information such as dosage, delivery method, route of administration, timing, frequency, and any restrictions or indications associated with the medication. |
| Directions.               | Direction            | The member "Indication" of the Direction Type is used to store information about the indications or reasons for prescribing or administering a medication.   |
| Directions..Description   | CodedDescriptionType | The Description member of the CodedDescriptionType Type is used to provide a textual description or explanation related to the direction of the medication order.  |
| Directions..DoseIndicator | CodedDescriptionType | The DoseIndicator member of the CodedDescriptionType Type is a code or text that indicates the specific dose of a medication prescribed or recommended to a patient. It is used to provide clarity and specificity on the dosage instructions for the medication   |



|                            |                      |  |
|----------------------------|----------------------|--|
|                            |                      | in the context of an electronic health record (EHR) software.  |
| Directions..DeliveryMethod | CodedDescriptionType | The DeliveryMethod member of the CodedDescriptionType Type in the Direction Type is used to store the method of delivery for a medication order in an EHR software. It contains a text description of the specific method used to administer the medication, such as oral, intravenous, or topical.  |
| Directions..Dose           | List<DirectionDose>  | The Dose member of the List<DirectionDose> type represents the dosage amount of a medication administered to a patient.  |
| Directions..Dose.          | DirectionDose        | The member of DirectionDose Type, which is a member of the List<DirectionDose> Type, represents the dosage information for a specific direction or instruction related to a medication order in an EHR software. It includes details such as the rate of dosing, dose sequence position, variable dose modifier, value, units, and additional codes. |
| Directions..Dose..Rate     | List<RateType>       | The Rate member of the List<RateType> type in the DirectionDose type is used to specify the rate at which a medication should be administered. It represents the speed or quantity of medication to be delivered per unit of time.   |

|                                     |                      |  |
|-------------------------------------|----------------------|--|
| Directions..Dose..Rate.             | RateType             | The member of RateType in the List<RateType> is used to represent the rate or speed of administration for a medication or treatment. It contains information such as the description of the rate, the value of the rate, the units of measurement for the rate, and any additional codes or modifiers associated with the rate.                    |
| Directions..Dose..Rate..Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type is a text field that provides a description or explanation of a particular code or value. It is used to provide additional context or information about the code or value in the RateType Type, which may be helpful for interpretation or documentation purposes within the EHR software. |
| Directions..Dose..Rate..Value       | String               | The Value member of type String in the RateType is used to store a numerical value that represents the rate of a particular parameter or measurement.  |
| Directions..Dose..Rate..Units       | RateTypeUnits        | The Units member of the RateTypeUnits Type represents the unit of measurement for the rate value in the RateType Type. It specifies the specific unit, such as milligrams or milliliters, used to measure the rate at which a medication is administered or delivered.   |

|  |                |   |
|--|----------------|---|
| Directions..Dose..Rate..Units.Unit           | String         | The Unit member of the RateTypeUnits Type in the StructuredProductType class is a string that represents the unit of measurement for the rate of a particular product. Given that it is used in an EHR software, it is used to specify the rate at which medication or treatment is administered to a patient.  |
| Directions..Dose..Rate..Units.Code           | List<CodeType> | The Code member of the List<CodeType> type is a string value that represents a code used for identifying a specific unit of measurement or classification system. It is used to provide additional information about the unit in the RateTypeUnits type within an electronic health record (EHR) software.  |
| Directions..Dose..Rate..Code                 | List<CodeType> | The Code member of the List<CodeType> type is used to store a code value that represents a specific concept or term. It is commonly used in healthcare systems to categorize and classify data, such as medications, diagnoses, procedures, and lab results. The coding system and version provide additional context and standardization for the code value. |
| Directions..Dose..Rate..RateSequencePosition | String         | The RateSequencePosition member of the RateType Type is a string that represents the position of a rate within a sequence. It is used to specify the order in which rates are applied or administered in  |

|  |                      |  |
|--|----------------------|--|
|  |                      | relation to other rates or actions within the EHR software.  |
| Directions..Dose..Rate..VariableRateModifier | CodedDescriptionType | The VariableRateModifier member of the CodedDescriptionType Type in the RateType Type is a description indicating any modifier or variable rate associated with a medication order. It is used in electronic health record (EHR) software to specify additional information about the rate at which the medication is administered.              |
| Directions..Dose..DoseSequencePosition       | String               | The DoseSequencePosition member of String Type in the DirectionDose Type represents the position of a dose within a sequence of doses. It is used to indicate the order or sequence in which doses are administered or prescribed within a medication order.   |
| Directions..Dose..VariableDoseModifier       | CodedDescriptionType | The VariableDoseModifier member of the CodedDescriptionType type in the DirectionDose type is a textual description used to modify or specify variations in the dose for a medication order. It provides additional information about how the dose may vary, such as dosage adjustments based on patient characteristics or specific conditions. |
| Directions..Dose..Value                      | String               | The Value member of String Type in the DirectionDose Type is used to store a string value  |

|                              |                                |  |
|------------------------------|--------------------------------|--|
|                              |                                | representing the dose of a medication or treatment specified in the direction.   |
| Directions..Dose..Units      | MeasureTypeUnits               | The Units member of the MeasureTypeUnits Type is used to define the unit of measurement for a particular quantity in the context of medication dosage.   |
| Directions..Dose..Code       | List<CodeType>                 | The Code member of the List<CodeType> type, which is a member of the DirectionDose type, is a coded value that represents a specific medical concept or entity. It is used to provide standardized and interoperable identification of medical terms, such as medications, conditions, or procedures, within the EHR software. |
| Directions..DoseCalculation  | List<DirectionDoseCalculation> | The DoseCalculation member of the List<DirectionDoseCalculation> type is used to store information related to the calculation of the dose for a medication directed to a patient. This includes factors such as the rate of administration, calculation equations, and variables that may affect the dose calculation.         |
| Directions..DoseCalculation. | DirectionDoseCalculation       | The member of DirectionDoseCalculation Type in the List<DirectionDoseCalculation> Type is used for calculating the dosage of a medication based on factors such as rate,   |

|  |                      |   |
|--|----------------------|---|
|  |                      | dose, and variable calculation modifiers.   |
| Directions..DoseCalculation..Rate                        | List<RateType>       | The Rate member of the List<RateType> type is used to represent the rate at which a medication or treatment is administered. It includes information such as the rate value, units of measurement, and any applicable modifiers or codes.   |
| Directions..DoseCalculation..CalculationSequencePosition | String               | The CalculationSequencePosition member is a string that represents the position of the calculation within a sequence of calculations in the DirectionDoseCalculation. It is used to determine the order in which the calculations should be performed.                                |
| Directions..DoseCalculation..VariableCalculationModifier | CodedDescriptionType | The VariableCalculationModifier member of the CodedDescriptionType type in the DirectionDoseCalculation type is used to modify or adjust the calculation of dose in a medication order.   |
| Directions..DoseCalculation..Dose                        | MeasureType          | The Dose member of the MeasureType Type, which is a member of the DirectionDoseCalculation Type, represents the quantity or amount of a medication to be administered to a patient. It is used to specify the dosage of a medication as part of medication orders in an EHR software. |

|   |                                   |   |
|---|-----------------------------------|---|
| Directions..DoseCalculation..Variable                           | List<DoseCalculationTypeVariable> | The Variable member of the List<DoseCalculationTypeVariable> Type in the DirectionDoseCalculation Type is used to store variable information related to dose calculation.   |
| Directions..DoseCalculation..Variable.                          | DoseCalculationTypeVariable       | The member of DoseCalculationTypeVariable Type is used to store a variable identifier and its corresponding value for dose calculation in medication orders within an EHR software.   |
| Directions..DoseCalculation..Variable..VariableIdentifier       | String                            | The VariableIdentifier member of the DoseCalculationTypeVariable Type is a string that is used to uniquely identify a variable in a dose calculation. It is used to reference specific variables within a dose calculation algorithm, allowing for precise calculations based on the identified variable. |
| Directions..DoseCalculation..Variable..VariableSequencePosition | String                            | The VariableSequencePosition member of String Type in the DoseCalculationTypeVariable Type is used to indicate the position or order of the variable in a sequence or series within the dose calculation.   |
| Directions..DoseCalculation..Variable..VariableModifier         | CodedDescriptionType              | The VariableModifier member of the CodedDescriptionType type is used to define a modifier or additional attribute for a variable in the dose calculation. It provides additional information or specification related to the  |

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|  |  | variable value and helps in accurately calculating the dosage for a medication order in an EHR software.   |
| Directions..DoseCalculation..Variable..Value     | String                                 | The Value member of the String Type in the DoseCalculationTypeVariable Type is used to store a specific value associated with the variable in the dose calculation.  |
| Directions..DoseCalculation..Variable..Units     | MeasureTypeUnits                       | The Units member of the MeasureTypeUnits Type is used to specify the unit of measurement for a particular value. It is used in the context of dose calculation variables within the EHR software, providing a standardized unit for the measurement.   |
| Directions..DoseCalculation..Variable..Code      | List<CodeType>                         | The Code member of the List<CodeType> type is used to store a specific code value that represents a particular concept or item in the EHR software. This code value is typically defined by a coding system and version, providing a standardized way to identify and classify different elements within the software. |
| Directions..DoseCalculation..CalculationEquation | DoseCalculationTypeCalculationEquation | The CalculationEquation member of the DoseCalculationTypeCalculationEquation Type is used to store the calculation equation for determining the dose of a medication. This equation is used in electronic health record (EHR) software to calculate the specific dosage  |



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|  |                      | based on various factors such as patient weight, age, and condition.  |
| Directions..DoseCalculation..CalculationEquation.Value | String               | The Value member of the String Type in the DoseCalculationTypeCalculationEquation Type is used to store a string value that represents a calculation equation.  |
| Directions..DoseCalculation..CalculationEquation.Code  | List<CodeType>       | The Code member of the List<CodeType> type is used to store a code value that represents a specific medication or medical item. It may provide a standardized way to identify and classify these items within the EHR software.                 |
| Directions..Vehicle                                    | List<VehicleType>    | The Vehicle member of the List<VehicleType> type in the Direction type is used to describe the vehicle or carrier for delivering medication, such as a syringe or inhaler, as part of the medication administration process in an EHR software. |
| Directions..Vehicle.                                   | VehicleType          | The member of the VehicleType Type, which is a member of the List<VehicleType> Type, is used to store information about the manufacturer of a vehicle.  |
| Directions..Vehicle..Description                       | CodedDescriptionType | The Description member of the CodedDescriptionType type in the VehicleType type is used to provide a text description of a coded attribute or object. It is used to provide additional  |

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|   |                          | information or details about a specific attribute or object in the context of a vehicle within an electronic health record (EHR) software.  |
| Directions..Vehicle..Product              | List<VehicleTypeProduct> | The Product member of List<VehicleTypeProduct> Type is used to store information about the specific products or medications associated with a vehicle or transportation-related context. It may include details such as the product name, brand name, strength, form, concentration, size, and other relevant information related to the vehicles or transportation-related products. |
| Directions..Vehicle..Product.             | VehicleTypeProduct       | The member of VehicleTypeProduct Type, which is a member of the List<VehicleTypeProduct> Type, is used to store information about the size of a medication product.   |
| Directions..Vehicle..Product..ProductName | CodedDescriptionType     | The ProductName member of the CodedDescriptionType Type in the VehicleTypeProduct Type is used to store the name of the product associated with a medication order in an electronic health record (EHR) software.   |
| Directions..Vehicle..Product..BrandName   | CodedDescriptionType     | The BrandName member of the CodedDescriptionType type within the VehicleTypeProduct type represents the brand name of a medication product. It is   |

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|  |                                  | used to identify and differentiate specific brands of medications within the electronic health record (EHR) software.   |
| Directions..Vehicle..Product..Strength                           | List<VehicleTypeProductStrength> | The Strength member of the List<VehicleTypeProductStrength> Type represents the strength of a medication product. It includes information such as the value of the strength, the units of measurement, and any additional modifiers or codes related to the strength. This information is used to specify the potency or concentration of the medication. |
| Directions..Vehicle..Product..Strength.                          | VehicleTypeProductStrength       | The member "StrengthSequencePosition" of the VehicleTypeProductStrength Type represents the position of the strength sequence within the medication product. It is used to indicate the order or sequence in which the different strengths of the medication should be administered or displayed.   |
| Directions..Vehicle..Product..Strength..StrengthSequencePosition | String                           | The StrengthSequencePosition member of type String in the VehicleTypeProductStrength type represents the sequential position of the strength value within a list of strengths associated with a product. It is used to indicate the specific order or ranking of different strengths of a medication or product.  |

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| Directions..Vehicle..Product..Strength..VariableStrengthModifier | CodedDescriptionType         | The VariableStrengthModifier member of the CodedDescriptionType type is a text field used to specify any modifier or qualifier related to the variable strength of a product in the context of medication orders.  |
| Directions..Vehicle..Product..Strength..Value                    | String                       | The Value member of the String Type is used to store the numerical value of the strength of a product within the VehicleTypeProductStrength Type.  |
| Directions..Vehicle..Product..Strength..Units                    | MeasureTypeUnits             | The Units member of the MeasureTypeUnits Type in the VehicleTypeProductStrength Type is used to represent the measurement units associated with a particular strength of a product.  |
| Directions..Vehicle..Product..Strength..Code                     | List<CodeType>               | The Code member of the List<CodeType> type is used to store a specific code value that represents a particular item, such as a medication, diagnosis, or procedure. This code value is typically standardized and follows a specific coding system or terminology, such as SNOMED CT, LOINC, or RxNorm. It helps in accurately identifying and classifying the item within the EHR software. |
| Directions..Vehicle..Product..Form                               | List<VehicleTypeProductForm> | The Form member of List<VehicleTypeProductForm> Type represents the form of a medication product, such as tablet, capsule, or liquid. It   |

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|  |                        | provides information about how the medication is presented or administered to the patient.  |
| Directions..Vehicle..Product..Form.                      | VehicleTypeProductForm | The member of VehicleTypeProductForm Type, which is a member of the List<VehicleTypeProductForm> Type, is used to represent the different forms or formulations of a medication product.  |
| Directions..Vehicle..Product..Form..FormSequencePosition | String                 | The FormSequencePosition member of the VehicleTypeProductForm Type is a string that represents the sequence position of a particular form within a set of multiple forms associated with a product. It is used to organize and identify the order in which the forms should be completed or processed.  |
| Directions..Vehicle..Product..Form..MultipleFormModifier | CodedDescriptionType   | The MultipleFormModifier member of the CodedDescriptionType Type in the VehicleTypeProductForm Type is used to indicate any additional modifiers or attributes associated with the product form. It provides a way to describe any specific characteristics or variations related to the product form, which may be important for medication ordering and administration in an electronic health record (EHR) system. |
| Directions..Vehicle..Product..Form..Text                 | String                 | The Text member of String Type in the VehicleTypeProductForm Type is a field that stores a textual  |

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|   |   | description or label associated with a specific form or product. It is used to provide additional information or context about the form or product being referenced in the EHR software.   |
| Directions..Vehicle..Product..Form..ObjectAttribute | List<CodedDescriptionTypeObjectAttribute> | The ObjectAttribute member of the List<CodedDescriptionTypeObjectAttribute> type in the VehicleTypeProductForm type is used to represent various attributes or properties associated with an object. It can contain attribute values and codes specific to the object, allowing for more detailed and specific information about the object's characteristics. |
| Directions..Vehicle..Product..Form..Code            | List<CodeType>                            | The Code member of the List<CodeType> type is used to store a specific code value that represents a certain attribute or characteristic of the product form in the VehicleTypeProductForm type. This code value may be used for identification, classification, or other purposes within the EHR software.   |
| Directions..Vehicle..Product..Concentration         | List<VehicleTypeProductConcentration>     | The Concentration member of the List<VehicleTypeProductConcentration> type in the VehicleTypeProduct type is used to store information about the concentration of a specific product. It represents the amount of the active ingredient or substance within  |

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|  |                                 | a given volume or quantity of the product.  |
| Directions..Vehicle..Product..Concentration.                               | VehicleTypeProductConcentration | The member "ConcentrationSequencePosition" in the VehicleTypeProductConcentration type is used to indicate the sequence position of a concentration value within a list of concentrations associated with a product.  |
| Directions..Vehicle..Product..Concentration..ConcentrationSequencePosition | String                          | The ConcentrationSequencePosition member of the VehicleTypeProductConcentration type is a string that represents the position or order of a concentration value within a sequence of concentrations. It is used to organize and identify different concentration values associated with a medication or product within the electronic health record software.                       |
| Directions..Vehicle..Product..Concentration..VariableConcentrationModifier | CodedDescriptionType            | The VariableConcentrationModifier member of the CodedDescriptionType type within the VehicleTypeProductConcentration type is a textual description or code that provides additional information about the concentration value of a product within a medication order. It is used to specify any modifiers or qualifiers related to the concentration value, such as the form of the |

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|  |                              | product or any specific properties or characteristics.   |
| Directions..Vehicle..Product..Concentration..Value | String                       | The Value member of String Type in the VehicleTypeProductConcentration Type is used to store the numerical concentration value of a product.   |
| Directions..Vehicle..Product..Concentration..Units | MeasureTypeUnits             | The Units member of the MeasureTypeUnits Type is used to represent the unit of measurement for a particular value. It specifies the type of unit (e.g., milliliters, grams) and may include specific codes for the unit of measurement. This information is used to ensure standardized and accurate representation of measurements within the EHR software. |
| Directions..Vehicle..Product..Concentration..Code  | List<CodeType>               | The Code member of the List<CodeType> type is a structured data field that represents a specific code value associated with the concentration of a product within the VehicleTypeProductConcentration type. It is used to identify the type of coding system and version used to classify the concentration value.   |
| Directions..Vehicle..Product..Size                 | List<VehicleTypeProductSize> | The Size member of the List<VehicleTypeProductSize> Type is used to represent the size or measurement of a product within the Electronic Health Record (EHR) software. It may include information such as the size sequence  |



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|  |                              | position, any variable size modifiers, text description, object attributes, and relevant codes.   |
| Directions..Vehicle..Product..Size.                      | VehicleTypeProductSize       | The member "SizeSequencePosition" of the VehicleTypeProductSize Type, which is a member of the List<VehicleTypeProductSize> Type, represents the sequence position of the size in relation to other sizes in the product. It is used to indicate the ordering or hierarchy of sizes within a product in the EHR software. |
| Directions..Vehicle..Product..Size..SizeSequencePosition | String                       | The SizeSequencePosition member of the VehicleTypeProductSize Type is a string used to indicate the positioning of a particular size within a sequence. It is used to organize and categorize the different sizes of a product.   |
| Directions..Vehicle..Product..Size..VariableSizeModifier | CodedDescriptionType         | The VariableSizeModifier member of the CodedDescriptionType Type in the VehicleTypeProductSize Type is used to provide additional information about the variable size of a product.   |
| Directions..Vehicle..Product..Size..Text                 | String                       | The Text member of the String Type in the VehicleTypeProductSize Type is used to store a text description or information related to the size of a product in the context of an electronic health record (EHR) software.   |
| Directions..Vehicle..Product..Size..Object               | List<CodedDescriptionTypeObj | The ObjectAttribute member  |

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| Attribute   | ectAttribute>        | of the<br>List<CodedDescriptionTypeObj<br>ectAttribute> Type in the<br>VehicleTypeProductSize Type is<br>used to represent additional<br>attributes or characteristics of<br>a product size, such as color,<br>material, or shape.   |
| Directions..Vehicle..Product..Size..Code                  | List<CodeType>       | The Code member of the<br>List<CodeType> type is used<br>to represent a specific code<br>value that corresponds to a<br>particular coding system or<br>standard. It could be used to<br>categorize or identify the type<br>of product or medication being<br>represented in the EHR<br>software.   |
| Directions..Vehicle..Product..ProductSeq<br>uencePosition | String               | The ProductSequencePosition<br>member of the<br>VehicleTypeProduct type is a<br>string that represents the<br>position or order of the<br>product in a sequence or list. It<br>is used to indicate the specific<br>position of a product in a<br>medication order or<br>prescription.  |
| Directions..Vehicle..Product..MultiplePro<br>ductModifier | CodedDescriptionType | The MultipleProductModifier<br>member of the<br>CodedDescriptionType type is<br>a text field that may be used to<br>describe any modifiers or<br>additional information<br>associated with multiple<br>products within a medication<br>order. It is used to provide<br>specific instructions or details<br>about the combination or<br>interaction of multiple<br>products within the order. |

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| Directions..Vehicle..Manufacturer                       | ActorReferenceType        | The Manufacturer member of the ActorReferenceType Type in the VehicleType Type is used to store information about the manufacturer of a vehicle.   |
| Directions..Vehicle..IDs                                | IDType                    | The IDs member of the IDType Type in the VehicleType Type is used to store various identification information related to the vehicle. This can include unique identifiers, such as VIN (Vehicle Identification Number), registration numbers, or any other type of identification associated with the vehicle. |
| Directions..Vehicle..Quantity                           | List<VehicleTypeQuantity> | The Quantity member of List<VehicleTypeQuantity> Type is used to represent the quantity or amount associated with a vehicle in the EHR software. It includes information such as the value of the quantity, the units of measurement, and any additional modifiers or codes related to the quantity.           |
| Directions..Vehicle..Quantity.                          | VehicleTypeQuantity       | The QuantitySequencePosition member of the VehicleTypeQuantity Type is used to indicate the position or sequence of the quantity in a list or order of quantities.   |
| Directions..Vehicle..Quantity..QuantitySequencePosition | String                    | The QuantitySequencePosition member of type String in the VehicleTypeQuantity type is used to specify the position of a quantity within a sequence of quantities.  |

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| Directions..Vehicle..Quantity..VariableQuantityModifier | CodedDescriptionType | The VariableQuantityModifier member of the VehicleTypeQuantity Type is a property that represents a modifier for the variable quantity value. It is used to provide additional information or description about the variable quantity associated with a particular vehicle type in the context of medication orders.                                     |
| Directions..Vehicle..Quantity..Value                    | String               | The Value member of the String Type in the VehicleTypeQuantity represents the numerical value of a specific quantity associated with a vehicle in the EHR software.  |
| Directions..Vehicle..Quantity..Units                    | MeasureTypeUnits     | The Units member of the MeasureTypeUnits Type is used to define the unit of measurement for a quantity, such as milligrams (mg), liters (L), or minutes (min).   |
| Directions..Vehicle..Quantity..Code                     | List<CodeType>       | The Code member of the List<CodeType> type is used to store a specific code value that represents a particular concept or item in the context of the vehicle's quantity. This code value is typically associated with a coding system and version, providing a standardized way to identify and categorize the quantity measurement in the EHR software. |
| Directions..Vehicle..VehicleSequencePosition            | String               | The VehicleSequencePosition member of String Type in the VehicleType Type is used to   |

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|  |                      | specify the position or order of a vehicle within a sequence or series. This could be used to organize and track vehicles in a structured and consistent manner within the electronic health record software.   |
| Directions..Vehicle..MultipleVehicleModifier | CodedDescriptionType | The MultipleVehicleModifier member of the CodedDescriptionType type in the VehicleType type is used to describe any modifiers or additional information related to multiple vehicles within the context of an electronic health record (EHR) software.  |
| Directions..Vehicle..InternalCCRLink         | InternalCCRLink      | The InternalCCRLink member in the InternalCCRLink Type is used to provide a link within the EHR software to internal CCR (Continuity of Care Record) data. It includes a LinkID to identify the specific link, LinkRelationship to specify the relationship between the link and the data, and Source to indicate the source of the link within the EHR software. |
| Directions..Route                            | List<DirectionRoute> | The Route member of the List<DirectionRoute> Type in the Direction Type is used to specify the route of administration for a medication order.  |
| Directions..Route.                           | DirectionRoute       | The member of the DirectionRoute type within the List<DirectionRoute> type is used to specify the details of the route or method by which a medication or treatment   |

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|  |   | should be administered to a patient.   |
| Directions..Route..RouteSequencePosition | String                                    | The RouteSequencePosition member of String Type in the DirectionRoute Type is used to indicate the sequence position of the route in the medication administration instructions.   |
| Directions..Route..MultipleRouteModifier | CodedDescriptionType                      | The MultipleRouteModifier member of the CodedDescriptionType type in the DirectionRoute type is used to represent any additional modifiers or qualifiers associated with the route of administration for a medication order.               |
| Directions..Route..Text                  | String                                    | The Text member of the String Type in the DirectionRoute Type is used to store the textual description of the route of administration for a medication.  |
| Directions..Route..ObjectAttribute       | List<CodedDescriptionTypeObjectAttribute> | The ObjectAttribute member in the List<CodedDescriptionTypeObjectAttribute> type is used to describe any additional attributes or characteristics of an object associated with a specific direction route.                                 |
| Directions..Route..Code                  | List<CodeType>                            | The Code member of the List<CodeType> type in the DirectionRoute type is used to store the code value associated with a specific route or modifier for medication administration. It is used in the context of EHR software to capture and |

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|  |                      | represent standardized medical codes related to medication administration routes.  |
| Directions..Site                       | List<SiteType>       | The Site member of the List<SiteType> type represents the location or site where a medication or treatment is administered to a patient.   |
| Directions..Site.                      | SiteType             | The `SiteType` member in the `List<SiteType>` type is used to represent information related to the location or site associated with a medication order or administration. It may include details such as the position in a sequence, modifiers for multiple sites, text description, object attributes, and codes related to the site. |
| Directions..Site..SiteSequencePosition | String               | The SiteSequencePosition member of type String in the SiteType class is to represent the position or order of a specific site in a sequence of multiple sites. It may be used to indicate the position of a site in a series or list, providing information on the relative placement of the site within a procedure or treatment.     |
| Directions..Site..MultipleSiteModifier | CodedDescriptionType | The MultipleSiteModifier member of the CodedDescriptionType Type is a property that represents a modifier for specifying multiple sites in a healthcare context. It is used within the SiteType Type to provide additional information about   |

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|                                   |   | the location or sites associated with a medical procedure or treatment.   |
| Directions..Site..Text            | String                                    | The Text member of String Type in the SiteType Type is used to store a textual description or label for a specific site.  |
| Directions..Site..ObjectAttribute | List<CodedDescriptionTypeObjectAttribute> | The ObjectAttribute member of the List<CodedDescriptionTypeObjectAttribute> type in the SiteType type is used to store additional attributes or properties associated with an object in the EHR software. It could be used to provide more specific details or characteristics about a particular site or location mentioned in the EHR data. |
| Directions..Site..Code            | List<CodeType>                            | The Code member of the List<CodeType> is used to store a specific value or identifier related to a site within the EHR software. It is used to uniquely identify and categorize different sites within the system.  |
| Directions..AdministrationTiming  | List<DirectionAdministrationTiming>       | The AdministrationTiming member of the List<DirectionAdministrationTiming> type in the Direction type is used to specify the timing of administering a medication or treatment. It includes information such as the timing sequence position, variable timing modifier, type of administration timing, exact date and time, age of the        |



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|  |                               | patient, approximate date and time, and date and time range.  |
| Directions..AdministrationTiming.                        | DirectionAdministrationTiming | The TimingSequencePosition member of the DirectionAdministrationTiming type is used to specify the position of the timing sequence for administering a medication.  |
| Directions..AdministrationTiming..TimingSequencePosition | String                        | The TimingSequencePosition member in the DirectionAdministrationTiming type is a string that represents the position or order of a specific timing sequence within the administration of a medication or treatment. It is used to indicate the timing sequence of when a particular action or event should occur during the administration process.   |
| Directions..AdministrationTiming..VariableTimingModifier | CodedDescriptionType          | The VariableTimingModifier member of the CodedDescriptionType Type in the DirectionAdministrationTiming Type is used to describe a modifier that can be applied to the timing of the administration of a medication. It provides additional information about when the medication should be taken, such as specific timing variations or adjustments based on individual patient needs or conditions. |
| Directions..AdministrationTiming..Type                   | CodedDescriptionType          | The Type member of CodedDescriptionType Type in   |

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|---|-------------------------------------|---|
|   |                                     | the<br>DirectionAdministrationTiming<br>Type is used to indicate the<br>type or category of the<br>administration timing of a<br>direction or instruction for<br>medication.  |
| Directions..AdministrationTiming..Exact<br>DateTime       | String                              | The ExactDateTime member of<br>type String in the<br>DirectionAdministrationTiming<br>type is used to represent the<br>specific date and time for the<br>administration of medication.  |
| Directions..AdministrationTiming..Age                     | MeasureType                         | The Age member of the<br>MeasureType Type in the<br>DirectionAdministrationTiming<br>Type is used to store the age of<br>a patient.   |
| Directions..AdministrationTiming..Appro<br>ximateDateTime | CodedDescriptionType                | The ApproximateDateTime<br>member of the<br>CodedDescriptionType Type<br>within the<br>DirectionAdministrationTiming<br>Type is used to indicate an<br>estimated or approximate date<br>and time for the<br>administration of a medication<br>or treatment. |
| Directions..AdministrationTiming..DateTi<br>meRange       | List<DateTimeTypeDateTimeRa<br>nge> | The DateTimeRange member<br>of the<br>List<DateTimeTypeDateTimeRa<br>nge> type in the<br>DirectionAdministrationTiming<br>type is used to define a range<br>of date and time values for the<br>administration timing of a<br>medication order.              |
| Directions..Frequency                                     | List<FrequencyType>                 | The Frequency member of<br>List<FrequencyType> Type in<br>the Direction Type is used to   |

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|                                    |                      | specify the frequency at which a medication should be administered to a patient.   |
| Directions..Frequency.             | FrequencyType        | The member of FrequencyType Type in the List<FrequencyType> Type is used to represent the frequency or rate at which a medication should be administered or taken.   |
| Directions..Frequency..Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type in the FrequencyType Type is used to provide a text description of the coded value or attribute associated with a frequency.   |
| Directions..Frequency..Value       | String               | The Value member of String Type in the FrequencyType indicates the actual value or measurement of the frequency. It represents the numerical value associated with the frequency of an event or action, such as the number of times a medication should be taken in a given time period. |
| Directions..Frequency..Units       | RateTypeUnits        | The Units member of the RateTypeUnits Type is used to store the unit of measurement for the RateTypeUnits.   |
| Directions..Frequency..Code        | List<CodeType>       | The Code member of the List<CodeType> type in the FrequencyType type is used to store a code value that represents a specific concept or category within a coding system.  |

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| Directions..Frequency..FrequencySequencePosition | String               | The FrequencySequencePosition member of String Type in the FrequencyType Type is used to indicate the position of a specific frequency within a sequence of frequencies.   |
| Directions..Frequency..VariableFrequencyModifier | CodedDescriptionType | The VariableFrequencyModifier member of the CodedDescriptionType is used to specify any additional modifiers or variations in the frequency of a medication or treatment within the FrequencyType. It allows for more specific instructions regarding the timing or dosage of the medication.                          |
| Directions..Interval                             | List<IntervalType>   | The Interval member of the List<IntervalType> is used to store information about the interval between doses or administrations of a medication. It may include details such as the duration between doses, the units of measurement for the interval, and any modifiers that apply to the variable interval.           |
| Directions..Interval.                            | IntervalType         | The member of the IntervalType type is a description of the interval between medication doses. It specifies the value of the interval, the units of measurement for the interval (e.g. hours, days), and any additional modifiers or codes associated with the interval. It is used to schedule and monitor medication |

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|  |                      | administration for patients within an EHR software.   |
| Directions..Interval..Description              | CodedDescriptionType | The Description member of the CodedDescriptionType Type is a text field that provides a description or additional information about a coded value. It is used to provide further details or clarification for a coded value used within the IntervalType Type, such as an interval description or modifier. |
| Directions..Interval..Value                    | String               | The Value member of String Type in the IntervalType is used to store the actual value or measurement associated with the interval. It represents a specific numerical or alphanumeric value used in the context of the interval.  |
| Directions..Interval..Units                    | RateTypeUnits        | The Units member of the RateTypeUnits type is used to specify the unit of measurement for the rate of a particular interval.  |
| Directions..Interval..Code                     | List<CodeType>       | The Code member of the List<CodeType> type is used to store a specific value, coding system, and version for a code associated with an interval.  |
| Directions..Interval..IntervalSequencePosition | String               | The IntervalSequencePosition member of String Type in the IntervalType Type is used to indicate the position of an interval within a sequence of intervals.   |
| Directions..Interval..VariableIntervalModifier | CodedDescriptionType | The VariableIntervalModifier member of the  |

|                                   |                      |  |
|-----------------------------------|----------------------|--|
|                                   |                      | CodedDescriptionType in the IntervalType is used to modify the variable interval in the context of medication orders. It provides additional information or instructions related to the timing or frequency of the medication administration.  |
| Directions..Duration              | List<DurationType>   | The Duration member of the List<DurationType> type within the Direction type represents the duration or length of time for which a specific direction or instruction should be followed or adhered to. It includes information such as the description of the duration, the value of the duration, the units of measurement, and any relevant codes. This information is important in medication orders to ensure that the correct duration of treatment or administration is communicated and followed. |
| Directions..Duration.             | DurationType         | The DurationType member of the List<DurationType> type represents the duration of a specific event or action related to a medication order. It includes information such as the length of time, the units of measurement, and any modifiers or codes associated with the duration.   |
| Directions..Duration..Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type is used to store a text description of a coded value or concept. It provides additional  |

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|                                |                    | information or clarification about the meaning of the code used in the DurationType Type. This description helps in better understanding and interpretation of the coded value in the EHR software.   |
| Directions..Duration..DateTime | List<DateTimeType> | The DateTime member of List<DateTimeType> in the DurationType type is used to store various date and time related information such as the exact date and time, age, approximate date and time, and date and time ranges. It provides a mechanism for capturing specific points in time and temporal information related to durations. |
| Directions..Duration..Value    | String             | The Value member of the String Type in the DurationType is used to represent the numerical value of the duration. It is used to store the specific length or duration associated with a particular event or action, such as the duration of a medication order or the length of a treatment period.                                   |
| Directions..Duration..Units    | RateTypeUnits      | The Units member of the RateTypeUnits Type in the DurationType Type is used to specify the unit of measurement for the duration value.  |
| Directions..Duration..Code     | List<CodeType>     | The Code member of the List<CodeType> type is used to store a specific code value that represents a concept or category within a coding   |

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|  |                                | system. The coding system and version can also be specified to provide additional context for the code value.   |
| Directions..Duration..DurationSequencePosition | String                         | The DurationSequencePosition member of String Type in the DurationType Type is used to indicate the position of a specific duration within a sequence of durations.   |
| Directions..Duration..VariableDurationModifier | CodedDescriptionType           | The VariableDurationModifier member of the CodedDescriptionType Type in the DurationType Type is a text description of a variable modifier associated with the duration of a medication or treatment. It provides additional information or instructions regarding the variable duration of the medication or treatment.                        |
| Directions..DoseRestriction                    | List<DirectionDoseRestriction> | The DoseRestriction member of the List<DirectionDoseRestriction> type in the Direction Type is used to specify any restrictions or limitations on the dosage of the medication. This may include factors such as maximum dosage limits, dosage tapering schedules, or dose adjustments based on specific patient conditions or characteristics. |
| Directions..DoseRestriction.                   | DirectionDoseRestriction       | The member "Rate" of the DirectionDoseRestriction type in the List<DirectionDoseRestriction> type is used to specify the rate at which a medication should  |



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|  |                                   | be administered.   |
| Directions..DoseRestriction..Rate                        | List<RateType>                    | The Rate member of the List<RateType> Type is used to store the rate or speed at which a medication is administered or delivered to a patient. It indicates the quantity or amount of the medication that is given per unit of time, such as milliliters per hour or drops per minute. |
| Directions..DoseRestriction..RestrictionSequencePosition | String                            | The RestrictionSequencePosition member of String Type in the DirectionDoseRestriction Type is used to specify the position of a dose restriction within a sequence.  |
| Directions..DoseRestriction..VariableRestrictionModifier | CodedDescriptionType              | The VariableRestrictionModifier member of the CodedDescriptionType Type within the DirectionDoseRestriction Type is used to provide additional information or modifiers related to a variable restriction on a medication dose.  |
| Directions..DoseRestriction..Dose                        | MeasureType                       | The Dose member of the MeasureType Type is a numeric value that represents the amount or quantity of a medication or treatment prescribed or administered to a patient.  |
| Directions..DoseRestriction..Variable                    | List<DoseCalculationTypeVariable> | The Variable member of the List<DoseCalculationTypeVariable> type in the DirectionDoseRestriction type is used to store and represent  |

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|  |  | various variables involved in the calculation of medication doses.  |
| Directions..DoseRestriction..CalculationEquation | DoseCalculationTypeCalculationEquation | The CalculationEquation member of the DoseCalculationTypeCalculationEquation Type represents the mathematical equation used for calculating the dose of a medication based on various variables. This member is used to determine the exact dosage of a medication based on the specific requirements and parameters of the patient.    |
| Directions..Indication                           | List<IndicationType>                   | The Indication member of the List<IndicationType> Type in the Direction Type is used to provide information about the reason or purpose for administering the medication. It includes descriptions, problem references, physiological parameters, sources, and other relevant information related to the indication for the medication. |
| Directions..Indication.                          | IndicationType                         | The IndicationType member in the List<IndicationType> type is used to capture information related to the indications or reasons for prescribing a medication.   |
| Directions..Indication..PRNFlag                  | CodedDescriptionType                   | The PRNFlag member of the CodedDescriptionType Type is used to indicate whether a medication or treatment is to be administered "as needed" or "PRN" (pro re nata) as specified in the prescription or  |

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|---|----------------------------|--|
|   |                            | order.   |
| Directions..Indication..Description       | List<CodedDescriptionType> | The Description member of the List<CodedDescriptionType> Type is used to store textual descriptions related to indications for a medication order in an EHR software.  |
| Directions..Indication..Problem           | List<ProblemType>          | The Problem member of the List<ProblemType> Type in the IndicationType Type is used to represent a health problem or condition that is associated with the indication for the medication order. It includes information such as the type, description, status, and source of the problem, as well as any associated episodes, current health status, patient knowledge, and relevant timestamps. |
| Directions..Indication..Problem.          | ProblemType                | The member of ProblemType Type in the List<ProblemType> Type is used to store information about a patient's health problems or medical conditions.   |
| Directions..Indication..Problem..Episodes | EpisodesType               | The Episodes member of the EpisodesType Type in the ProblemType Type is used to represent a series or collection of episodes related to a specific health problem or condition. It may contain information such as the episode number, frequency, and a list of individual episodes.   |

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| Directions..Indication..Problem..Episode<br>s.Number            | String            | The Number member of String Type in the EpisodesType Type is used to store the number or identifier associated with a specific episode within a patient's healthcare record.  |
| Directions..Indication..Problem..Episode<br>s.Frequency         | MeasureType       | The Frequency member of the MeasureType type is used to specify the frequency or interval at which an episode occurs within the EpisodesType type. It represents the value and units of measurement for the frequency of the episode.   |
| Directions..Indication..Problem..Episode<br>s.Episode           | List<EpisodeType> | The Episode member of the List<EpisodeType> type represents a specific episode or period of care within a patient's medical history. It contains information such as the duration of the episode, timestamps, IDs, descriptions, and status. It is used to record and track patient episodes, allowing healthcare providers to manage and analyze the patient's medical history and provide appropriate care. |
| Directions..Indication..Problem..Episode<br>s.Episode.          | EpisodeType       | The member of EpisodeType Type, which is a member of the List<EpisodeType> Type, is used to represent the duration or length of an episode in a patient's medical history.  |
| Directions..Indication..Problem..Episode<br>s.Episode..Duration | DurationType      | The Duration member of the DurationType Type represents the length of time associated with an episode of care or treatment. It includes information such as the   |

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|  |                      | duration value, units of measurement, and any modifiers or codes associated with the duration.  |
| Directions..Indication..Problem..Episode<br>s.Episode..CCRDataObjectID | String               | The CCRDataObjectID member of type String in the EpisodeType class is used as a unique identifier for the episode of care within the electronic health record system.   |
| Directions..Indication..Problem..Episode<br>s.Episode..DateTime        | List<DateTimeType>   | The DateTime member of the List<DateTimeType> Type in the EpisodeType Type is used to store information about the date and time of an episode.  |
| Directions..Indication..Problem..Episode<br>s.Episode..IDs             | List<IDType>         | The IDs member of List<IDType> in the EpisodeType Type is used to store and manage various identification numbers associated with the episode. This can include unique identifiers for the episode, such as an episode ID, as well as other identification numbers issued by different actors, such as healthcare providers or organizations. |
| Directions..Indication..Problem..Episode<br>s.Episode..Type            | CodedDescriptionType | The Type member of the CodedDescriptionType Type is a text field that represents the type or category of an episode. It is used to classify and categorize different episodes within an electronic health record (EHR) software.  |
| Directions..Indication..Problem..Episode<br>s.Episode..Description     | CodedDescriptionType | The Description member of the CodedDescriptionType Type is used to store a textual  |

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|  |                       | description of the episode. It provides additional information or details about the episode, such as its nature, characteristics, or other relevant information.   |
| Directions..Indication..Problem..Episode<br>s.Episode..Status          | CodedDescriptionType  | The Status member of CodedDescriptionType Type in the EpisodeType Type is used to indicate the current status or condition of an episode in the electronic health record (EHR) software. It may provide information such as whether the episode is active, completed, ongoing, or cancelled.   |
| Directions..Indication..Problem..Episode<br>s.Episode..Source          | List<SourceType>      | The Source member in the EpisodeType type is used to store information about the source of the episode, such as the entity or system that generated or recorded the episode. It may include details like a description of the source, actors involved (such as healthcare providers), the date and time of the episode's source, and any reference or comment IDs related to the source. |
| Directions..Indication..Problem..Episode<br>s.Episode..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the List<InternalCCRLink> type is used to establish internal connections or links within the EHR system. It includes a LinkID property to identify the specific link and a Source property to specify the source of the link. The LinkRelationship property allows for multiple relationship   |

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|  |                       | types to be associated with the link. These internal links are used to connect related data and facilitate data navigation and retrieval within the EHR system.   |
| Directions..Indication..Problem..Episode<br>s.Episode..ReferenceID | List<String>          | The ReferenceID member of the List<String> Type in EpisodeType is used to store a unique identifier or reference to another data object or record within the EHR software.  |
| Directions..Indication..Problem..Episode<br>s.Episode..CommentID   | List<String>          | The CommentID member of List<String> in the EpisodeType type is used to store additional comments or notes related to the episode.  |
| Directions..Indication..Problem..Episode<br>s.Episode..Signature   | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> type is used to store the signature ID associated with the episode. This could be used to track and verify the authenticity of the episode documentation, ensuring its integrity and validity.  |
| Directions..Indication..Problem..Episode<br>s.Source               | List<SourceType>      | The Source member of the List<SourceType> Type in the EpisodesType Type is used to capture information about the source or origin of the episode, such as the system, application, or person that created or recorded the episode data. It may also include additional details such as the date and time of the episode data creation or the unique identifier of the source. |

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| Directions..Indication..Problem..Episodes.InternalCCRLink | List<InternalCCRLink>   | The InternalCCRLink member in the EpisodesType type is used to store internal links that connect episodes of care within the electronic health record (EHR) system. These links provide a way to navigate and view related episodes, such as previous or subsequent episodes of a particular condition or treatment. |
| Directions..Indication..Problem..Episodes.ReferenceID     | List<String>            | The ReferenceID member of the List<String> Type in the EpisodesType Type is used to store the reference IDs associated with the episodes.  |
| Directions..Indication..Problem..Episodes.CommentID       | List<String>            | The CommentID member of the List<String> Type in the EpisodesType Type is used to store any comments or additional information related to the episodes recorded in an electronic health record (EHR).  |
| Directions..Indication..Problem..Episodes.Signature       | List<IDTypeSignature>   | The Signature member of List<IDTypeSignature> in the EpisodesType type is used to store the signature ID associated with a specific episode or event in the electronic health record.  |
| Directions..Indication..Problem..HealthStatus             | CurrentHealthStatusType | The HealthStatus member of the CurrentHealthStatusType Type in the ProblemType Type is used to store information about the current health status of a patient.   |
| Directions..Indication..Problem..HealthStatus.DateTime    | List<DateTimeType>      | The DateTime member of the List<DateTimeType> Type in the CurrentHealthStatusType is   |



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|  |                      | used to store timestamps or date and time information related to the current health status of a patient. This could include the date and time of the status update, the date and time of a healthcare provider's evaluation, or any relevant temporal information related to the patient's health status.   |
| Directions..Indication..Problem..HealthStatus.Description  | CodedDescriptionType | The Description member of the CodedDescriptionType Type is a textual representation of a coded description related to the current health status of a patient. It provides additional information about the patient's health condition or status, such as symptoms, diagnoses, or other relevant details. It is commonly used in EHR software to document and communicate the patient's medical history and current health status. |
| Directions..Indication..Problem..HealthStatus.CauseOfDeath | String               | The CauseOfDeath member of the CurrentHealthStatusType Type is a string that represents the cause of death for a patient. It is used to record and document the specific reason or condition that led to the patient's death in the electronic health records (EHR).  |
| Directions..Indication..Problem..HealthStatus.Source       | List<SourceType>     | The Source member of the List<SourceType> Type in the CurrentHealthStatusType is used to store information about the source or origin of  |

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|   |                       | the current health status record. It may include details such as the description of the source (e.g., hospital, primary care physician), the actor responsible for the record (e.g., healthcare provider), the date and time of the record, and any associated reference or comment IDs. |
| Directions..Indication..Problem..HealthStatus.InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the CurrentHealthStatusType Type is used to store internal links or references to other CCR (Continuity of Care Record) documents or sections within the EHR software.   |
| Directions..Indication..Problem..HealthStatus.ReferenceID     | List<String>          | The ReferenceID member of the List<String> Type in the CurrentHealthStatusType is used to store reference identifiers related to the current health status of a patient in the Electronic Health Record (EHR) software.  |
| Directions..Indication..Problem..HealthStatus.CommentID       | List<String>          | The CommentID member of the List<String> Type in the CurrentHealthStatusType is used to store any comments or additional information related to the current health status of a patient in the EHR software.  |
| Directions..Indication..Problem..HealthStatus.Signature       | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> type is used to store the signature ID associated with a signature for the current health status information. It is used for documenting the signature of a healthcare provider or   |

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|--|----------------------|--|
|  |                      | patient on the current health status record in an EHR software.  |
| Directions..Indication..Problem..PatientKnowledge              | PatientKnowledgeType | The PatientKnowledge member of the PatientKnowledgeType is used to capture information about the patient's awareness or knowledge regarding a specific problem or health condition.  |
| Directions..Indication..Problem..PatientKnowledge.PatientAware | String               | The PatientAware member of type String in the PatientKnowledgeType is used to indicate if the patient is aware of the knowledge or information being documented.   |
| Directions..Indication..Problem..PatientKnowledge.Description  | CodedDescriptionType | The Description member of the CodedDescriptionType type is used to provide a textual description or explanation of a coded item or concept in the patient's knowledge or medical record.   |
| Directions..Indication..Problem..PatientKnowledge.Source       | List<SourceType>     | The Source member of the List<SourceType> Type in the PatientKnowledgeType Type is used to track and document the source or origin of the patient's knowledge or information stored in the EHR software. It provides information about the description of the source, the actors involved, the date and time of the information, as well as any reference or comment IDs associated with it. |

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| Directions..Indication..Problem..PatientKnowledge.InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the List<InternalCCRLink> Type within the PatientKnowledgeType Type is used to store and manage internal links within the electronic health record (EHR) system. It may contain information such as the link ID, relationships between the links, and the source of the link. |
| Directions..Indication..Problem..PatientKnowledge.ReferenceID     | List<String>          | The ReferenceID member of List<String> Type in the PatientKnowledgeType is used to store unique identifiers or reference numbers associated with the patient's knowledge or information. It serves as a way to link or reference additional information related to the knowledge.                           |
| Directions..Indication..Problem..PatientKnowledge.CommentID       | List<String>          | The CommentID member of the List<String> Type in the PatientKnowledgeType Type is used to store unique identifiers or references to comments associated with patient knowledge information in an EHR software system.   |
| Directions..Indication..Problem..PatientKnowledge.Signature       | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> type is used to store information related to the signature of a healthcare provider or authorized user. It may include details such as the signature ID or any other relevant information for authentication and verification purposes.                   |

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| Directions..Indication..Problem..CCRDataObjectID | String               | The CCRDataObjectID member of String Type in the ProblemType is used as a unique identifier for the problem within the EHR software system.  |
| Directions..Indication..Problem..DateTime        | List<DateTimeType>   | The DateTime member of the List<DateTimeType> Type in the ProblemType Type represents the date and time of an event or occurrence related to a specific problem or health issue.   |
| Directions..Indication..Problem..IDs             | List<IDType>         | The IDs member of the List<IDType> type in the ProblemType type is used to store various identification information related to a problem, such as unique identifiers, issued by information, and references to other IDs or sources. |
| Directions..Indication..Problem..Type            | CodedDescriptionType | The Type member of the CodedDescriptionType Type in the ProblemType Type is used to specify the type or category of the problem or condition documented in the EHR software.   |
| Directions..Indication..Problem..Description     | CodedDescriptionType | The Description member of the CodedDescriptionType within the ProblemType is used to provide a textual description or explanation of a problem or condition recorded in the Electronic Health Record (EHR) software.                 |
| Directions..Indication..Problem..Status          | CodedDescriptionType | The Status member of the CodedDescriptionType type is used to indicate the status or   |

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|--|-----------------------|--|
|  |                       | condition of a problem in the EHR software.  |
| Directions..Indication..Problem..Source          | List<SourceType>      | The Source member of List<SourceType> in the ProblemType Type is used to indicate the source or origin of the problem or issue recorded in the electronic health record (EHR). It may provide information about the entity or system that reported or documented the problem, such as a healthcare provider, laboratory, or patient. |
| Directions..Indication..Problem..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of List<InternalCCRLink> in the ProblemType type is used to store internal links to other CCR data objects or resources within the EHR software system. These links could be used for referencing related information or for navigation purposes within the system.                                       |
| Directions..Indication..Problem..ReferenceID     | List<String>          | The ReferenceID member of List<String> Type is used to store a unique identifier or reference to another data element or document related to the problem being recorded, in the context of an Electronic Health Record (EHR) software.   |
| Directions..Indication..Problem..CommentID       | List<String>          | The CommentID member of List<String> Type is used to store the unique identifiers or references of comments made on the problem or issue identified in the ProblemType Type.   |

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| Directions..Indication..Problem..Signature                                | List<IDTypeSignature>                      | The Signature member of the List<IDTypeSignature> type is used to store electronic signatures related to the problem or condition documented in the ProblemType.   |
| Directions..Indication..PhysiologicalParameter                            | List<IndicationTypePhysiologicalParameter> | The PhysiologicalParameter member of the List<IndicationTypePhysiologicalParameter> type is used to store information about a physiological parameter related to a specific indication for a medication. It includes details such as the sequence position, modifier, value, units, and corresponding codes for the parameter. |
| Directions..Indication..PhysiologicalParameter.                           | IndicationTypePhysiologicalParameter       | The member "Value" of the "IndicationTypePhysiologicalParameter" type is used to store the numerical value of a physiological parameter, such as blood pressure or heart rate.   |
| Directions..Indication..PhysiologicalParameter..ParameterSequencePosition | String                                     | The ParameterSequencePosition member of the IndicationTypePhysiologicalParameter Type is a string that represents the sequence position of a physiological parameter within a list or array. It is used to indicate the order or position of the parameter in relation to other parameters in the list.                        |
| Directions..Indication..PhysiologicalParameter..VariableParameterModifier | CodedDescriptionType                       | The VariableParameterModifier member of the  |

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|   |                  | CodedDescriptionType type is used to specify any modifiers or additional information related to a physiological parameter in the context of an indication. It provides additional details or qualifications about the variable parameter being described.           |
| Directions..Indication..PhysiologicalParameter..Value | String           | The Value member of String Type in the IndicationTypePhysiologicalParameter Type is used to store a specific numerical value or measurement related to a physiological parameter.   |
| Directions..Indication..PhysiologicalParameter..Units | MeasureTypeUnits | The Units member of the MeasureTypeUnits type in the EHR software is used to store the units of measurement for a specific physiological parameter, such as weight or blood pressure.   |
| Directions..Indication..PhysiologicalParameter..Code  | List<CodeType>   | The Code member of the List<CodeType> Type in the IndicationTypePhysiologicalParameter Type is used to store a code value that represents a specific concept or term in a standardized coding system or vocabulary.   |
| Directions..Indication..Source                        | List<SourceType> | The Source member of the List<SourceType> Type in the IndicationType Type is used to store information about the source or origin of the indication. It includes details such as the description of the source, the actor or entity responsible for the indication, |



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|  |                       | the date and time of the indication, and any reference or comment IDs associated with the source.   |
| Directions..Indication..InternalCCRLink            | List<InternalCCRLink> | The InternalCCRLink member is used to provide links to other internal Clinical Care Records (CCR) within the EHR software.  |
| Directions..Indication..ReferenceID                | List<String>          | The ReferenceID member of the List<String> Type in the IndicationType Type is used to reference or link the indication to another piece of related information or data within the EHR system. It provides a unique identifier or reference point for the indication, allowing for easy retrieval or connection with other relevant information. |
| Directions..Indication..CommentID                  | List<String>          | The CommentID member of List<String> Type in the IndicationType Type is used to store comments or additional information related to the indication or reason for prescribing a medication.  |
| Directions..Indication..Signature                  | List<IDTypeSignature> | The Signature member of List<IDTypeSignature> Type is used to store information related to the signature of the indication. It may contain details such as the ID of the signature, indicating who authorized or approved the indication.   |
| Directions..Indication..IndicationSequencePosition | String                | The IndicationSequencePosition member of String Type in the   |

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|  |                      | IndicationType Type is used to specify the sequential position or order of an indication within a medication order or prescription. It is used to identify the order in which the indications are listed or prioritized for a specific medication.   |
| Directions..Indication..MultipleIndicationModifier | CodedDescriptionType | The MultipleIndicationModifier member of the CodedDescriptionType Type in the IndicationType Type is used to provide additional information or modify the multiple indications associated with a medication order in an Electronic Health Record (EHR) software.   |
| Directions..StopIndicator                          | CodedDescriptionType | The StopIndicator member of the CodedDescriptionType type in the Direction type is used to indicate whether a particular direction for medication administration should be stopped or discontinued.  |
| Directions..DirectionSequencePosition              | String               | The DirectionSequencePosition member of String Type in the Direction Type is used to indicate the position or sequence of a specific direction in a set of directions for medication administration. It may be used to specify the order in which the directions should be followed or to differentiate between different directions within the set. |

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| Directions..MultipleDirectionModifier            | CodedDescriptionType  | The MultipleDirectionModifier member of the CodedDescriptionType type is used to indicate any additional modifiers or qualifiers for the direction specified in the medication order.   |
| PatientInstructions                              | List<InstructionType> | The PatientInstructions member of List<InstructionType> Type in the StructuredProductType Type is used to store the specific instructions given to the patient regarding the usage or administration of the medication specified in the medication order. |
| PatientInstructions.                             | InstructionType       | The "Text" property of the InstructionType class is a string that represents the actual text of the instruction given to the patient. It is used to provide specific guidance or information to the patient regarding their medication.                   |
| PatientInstructions..instructionSequencePosition | String                | The instructionSequencePosition member of String Type in the InstructionType Type is used to indicate the position or sequence of the instruction within a set of instructions for a medication order.  |
| PatientInstructions..MultipleInstructionModifier | CodedDescriptionType  | The MultipleInstructionModifier member of the CodedDescriptionType Type in the InstructionType Type is used to provide additional modifiers or qualifiers for a specific instruction within the   |

|                                      |   |  |
|--------------------------------------|---|--|
|                                      |   | medication order.  |
| PatientInstructions..Text            | String                                    | The `Text` member of the `InstructionType` type is a string that represents the actual written instructions or information provided to the patient regarding a medication or procedure. It is used to store the specific details or directions that need to be communicated to the patient.  |
| PatientInstructions..ObjectAttribute | List<CodedDescriptionTypeObjectAttribute> | The ObjectAttribute member in the List<CodedDescriptionTypeObjectAttribute> type represents the attributes associated with an object in the context of instructions. It is used to provide additional information or characteristics about the object being described in the instructions, such as its properties, qualities, or specifications. This allows for more detailed and specific instructions to be provided within the EHR software. |
| PatientInstructions..Code            | List<CodeType>                            | The Code member of the List<CodeType> type is used to store a specific code or identifier value related to an instruction in the EHR software.   |
| FulfillmentInstructions              | List<InstructionType>                     | The FulfillmentInstructions member of List<InstructionType> in the StructuredProductType Type is used to provide specific instructions or guidance for the fulfillment process of a medication order in an EHR   |

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|                   |                                   | software. It may include information such as dosage administration steps, storage requirements, or specific handling instructions for the pharmacy or healthcare provider responsible for fulfilling the medication order.  |
| Refills           | List<StructuredProductTypeRefill> | The Refills member of the List<StructuredProductTypeRefill> Type is used to store information about the refills of a medication order. It contains details such as the number of refills, the quantity for each refill, the status of the refill, the date and time of the refill, and any comments associated with the refill. |
| Refills.          | StructuredProductTypeRefill       | The member "Number" in the StructuredProductTypeRefill type is used to store the identification number(s) associated with a medication refill.  |
| Refills..Number   | List<String>                      | The Number member of List<String> Type in the StructuredProductTypeRefill Type is used to specify the number of refills allowed for a medication order.   |
| Refills..Quantity | List<QuantityType>                | The Quantity member of List<QuantityType> in the StructuredProductTypeRefill Type represents the quantity of medication to be refilled in the Electronic Health Record (EHR) software.  |
| Refills..Status   | CodedDescriptionType              | The Status member of the CodedDescriptionType Type in   |

|                                   |                    |   |
|-----------------------------------|--------------------|---|
|                                   |                    | the StructuredProductTypeRefill Type is used to indicate the current status of a medication refill order in an EHR software system.   |
| Refills..DateTime                 | List<DateTimeType> | The DateTime member of List<DateTimeType> is used to store the date and time information related to the refill of a structured product.   |
| Refills..Comment                  | List<CommentType>  | The Comment member of List<CommentType> in the StructuredProductTypeRefill type is used to store additional notes or comments related to a medication refill, such as any specific instructions or information provided by the healthcare provider or patient.                |
| Refills..Comment.                 | CommentType        | The member of CommentType Type is used to store comments related to a particular medication order or record in an electronic health record system.  |
| Refills..Comment..CommentObjectID | String             | The CommentObjectID member of String Type in the CommentType Type is a unique identifier for a specific comment object within the EHR system. It is used to track and reference comments made on various components of the EHR, such as medication orders or patient records. |
| Refills..Comment..DateTime        | DateTimeType       | The DateTime member of the DateTimeType Type is used to store the exact date and time   |

|                               |                          |  |
|-------------------------------|--------------------------|--|
|                               |                          | of an event or observation within the CommentType Type.  |
| Refills..Comment..Type        | CodedDescriptionType     | The Type member of CodedDescriptionType Type in the CommentType Type is used to represent the type or category of a comment. It provides additional information or context about the comment being made in the EHR software.   |
| Refills..Comment..Description | CodedDescriptionType     | The Description member of the CodedDescriptionType Type is used to provide a textual description or explanation of a specific code or attribute within the healthcare data. It helps to provide additional information or context about the code or attribute being described. |
| Refills..Comment..Source      | List<ActorReferenceType> | The Source member of List<ActorReferenceType> Type in the CommentType Type is used to reference the source or origin of the comment or information recorded in the EHR software.   |
| Refills..Comment..ReferenceID | List<String>             | The ReferenceID member of the List<String> Type in the CommentType is used to store one or more reference IDs related to the comment. These reference IDs may be used to link the comment to other data or entities within the EHR software.                                   |
| SeriesNumber                  | String                   | The SeriesNumber member of String Type in the  |

|                         |                        |  |
|-------------------------|------------------------|--|
|                         |                        | StructuredProductType is used to assign a unique identifier to a series of related medication orders within an electronic health record (EHR) system. It is used to differentiate different sets or groups of medication orders that may be associated with a specific treatment plan or course of therapy for a patient.                    |
| Consent                 | CCRCodedDataObjectType | The Consent member of the CCRCodedDataObjectType Type is used to store information related to the patient's consent for a specific medication or treatment.  |
| Consent.CCRDataObjectID | String                 | The CCRDataObjectID member of String Type is used as a unique identifier for a specific CCR (Continuity of Care Record) data object within an electronic health record (EHR) software system. It is used to uniquely identify and reference the specific CCR data object within the system.  |
| Consent.DateTime        | List<DateTimeType>     | The DateTime member of the List<DateTimeType> Type in the CCRCodedDataObjectType is used to store specific dates and times related to the coded data object. It could represent the date and time of an event, such as when the data object was created or updated, or when a specific action or instruction related to the object occurred. |
| Consent.IDs             | List<IDType>           | The IDs member of List<IDType> in the  |



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|                     |                      | CCRCodedDataObjectType is used to store the identification information related to the coded data object, such as unique identifiers, timestamps, and the entity that issued the identifier. It allows for tracking and referencing the coded data object within the electronic health record software. |
| Consent.Type        | CodedDescriptionType | The Type member of the CodedDescriptionType Type is used to specify the type or category of a coded description. It provides information about the classification or classification system of the description text.  |
| Consent.Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type is used to provide a text description of a coded data object. It is used to provide additional information or context about the object, such as the purpose, content, or meaning of the coded data.  |
| Consent.Status      | CodedDescriptionType | The Status member of the CodedDescriptionType Type in the CCRCodedDataObjectType is used to indicate the current status or condition of the coded data object.   |
| Consent.Source      | List<SourceType>     | The Source member of the List<SourceType> Type in the CCRCodedDataObjectType is used to store information related to the source of the coded data object. This could include details about the entity  |

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|                         |                       | or system that created or contributed to the data object, such as the description of the source, actor references, date and time of the source, and any reference or comment IDs associated with it.   |
| Consent.InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member in the CCRDataObjectType type is used to store information about internal links within the EHR software. It contains a LinkID property to identify the link, a LinkRelationship property to specify the relationship of the link, and a Source property to indicate the source of the link. This allows for the referencing and organizing of related data within the EHR system. |
| Consent.ReferenceID     | List<String>          | The ReferenceID member of the List<String> Type in the CCRDataObjectType is used to store unique identifiers or references to other data objects or records within the EHR software system.  |
| Consent.CommentID       | List<String>          | The CommentID member of the List<String> Type in the CCRDataObjectType is used to store additional comments or notes associated with the coded data object. It provides a way to include text-based information that may be relevant or important for further understanding or clarification of the data.  |

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| Consent.Signature    | List<IDTypeSignature> | The Signature member of List<IDTypeSignature> Type in the CCR CodedDataObjectType is used to store the signature ID associated with the coded data object.  |
| Reaction             | Reaction              | The Reaction member of the Reaction Type is used to capture information about any adverse reactions or side effects experienced by the patient in response to the medication order in the EHR software. It includes details such as the description, status, severity, and any interventions taken to address the reaction. |
| Reaction.Description | CodedDescriptionType  | The Description member of the CodedDescriptionType Type is used to provide a text description of a reaction or event recorded in the electronic health record (EHR) software. It provides additional information or details about the reaction or event that may further clarify its nature or significance.                |
| Reaction.Status      | CodedDescriptionType  | The Status member of CodedDescriptionType Type in the Reaction Type is used to indicate the status or condition associated with a reaction to medication.   |
| Reaction.Severity    | CodedDescriptionType  | The Severity member of the CodedDescriptionType Type in the Reaction Type is used to indicate the severity level of a reaction or condition associated with the medication  |

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|---|----------------------------|---|
|   |                            | order.  |
| Reaction.Interventions                  | List<ReactionIntervention> | The Interventions member of the List<ReactionIntervention> type in the Reaction Type is used to document any interventions or actions taken in response to a particular reaction or adverse event experienced by a patient. It may include details such as the type of intervention, its description, status, source, and any associated procedures, products, medications, immunizations, services, or encounters. |
| Reaction.Interventions.                 | ReactionIntervention       | The member of the ReactionIntervention Type, which is a member of the List<ReactionIntervention> Type, is used to store information related to procedures performed as part of a patient's reaction or intervention.  |
| Reaction.Interventions..CCRDataObjectID | String                     | The CCRDataObjectID member of String Type is used as a unique identifier for the ReactionIntervention object within the EHR software. It serves as a way to reference and link the object to other related information or data within the system.   |
| Reaction.Interventions..DateTime        | List<DateTimeType>         | The DateTime member of List<DateTimeType> Type within the ReactionIntervention Type is used to store various date and time information related to the intervention or reaction. It  |

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|---|-----------------------|--|
|   |                       | may include the exact date and time of a specific event, the approximate date and time, or a range of dates and times.   |
| Reaction.Interventions..Type            | CodedDescriptionType  | The Type member of the CodedDescriptionType Type in the ReactionIntervention Type is used to specify the type of the coded description, such as the type of reaction or intervention being recorded.   |
| Reaction.Interventions..Description     | CodedDescriptionType  | The Description member of the CodedDescriptionType Type in the ReactionIntervention Type is used to provide a textual description or explanation related to a specific reaction or intervention.   |
| Reaction.Interventions..Status          | CodedDescriptionType  | The Status member of the CodedDescriptionType Type in the ReactionIntervention Type is used to indicate the current status or condition of a reaction or intervention.   |
| Reaction.Interventions..Source          | List<SourceType>      | The Source member of the List<SourceType> type in the ReactionIntervention type is used to store information about the source or origin of the data related to a reaction or intervention. It may include details about the entity or system that provided the information, such as a healthcare provider or a medical device. |
| Reaction.Interventions..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the List<InternalCCRLink> type is used to store internal   |

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|                                     |                       | links within the EHR system. It contains information such as a unique link ID, the relationship between the link and other elements, and the source of the link.  |
| Reaction.Interventions..ReferenceID | List<String>          | The ReferenceID member of the List<String> Type in the ReactionIntervention Type is used to store unique identifiers or references to other related medical records or documents within the EHR system.   |
| Reaction.Interventions..CommentID   | List<String>          | The CommentID member of List<String> in the ReactionIntervention type is used to store unique identifiers or references for comments related to the intervention.   |
| Reaction.Interventions..Signature   | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> type in the ReactionIntervention type is used to store information related to electronic signatures. This could include the ID or identifier of the signature, indicating the person or entity who provided the signature.                    |
| Reaction.Interventions..Procedures  | List<ProcedureType>   | The Procedures member of the List<ProcedureType> type in the ReactionIntervention Type is used to store information about medical procedures that have been performed or are planned to be performed on a patient. It includes details such as the date and time of the procedure, the type and |

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|   |                    | <p>description of the procedure, the status of the procedure, the source of the information, any relevant links or references, and any signatures associated with the procedure. It may also contain additional information such as the location of the procedure, the practitioners involved, the frequency and interval of the procedure, the duration, indications, instructions, consent, products used for the procedure, substance, method, position, and site of the procedure.</p> |
| Reaction.Interventions..Procedures.                 | ProcedureType      | <p>This member is used to store information about the practitioners associated with a medical procedure in an electronic health record (EHR).</p>  |
| Reaction.Interventions..Procedures..CCRDataObjectID | String             | <p>The CCRDataObjectID member of type String in the ProcedureType type is a unique identifier assigned to a specific procedure within the electronic health record (EHR) system. It is used to uniquely identify and reference the procedure's data object, allowing for easy retrieval and communication of the procedure's information within the EHR system.</p>  |
| Reaction.Interventions..Procedures..DateTime        | List<DateTimeType> | <p>The DateTime member of List&lt;DateTimeType&gt; in the ProcedureType Type is used to represent the date and time of a specific event or action within a medical procedure.</p>  |

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| Reaction.Interventions..Procedures..IDs         | IDType               | The IDs member in the IDType type of the ProcedureType type is used to store the identification information related to a procedure. This can include various types of identifiers such as medical record numbers, procedure codes, or other unique identifiers associated with the procedure. |
| Reaction.Interventions..Procedures..Type        | CodedDescriptionType | The Type member of CodedDescriptionType Type in the ProcedureType Type is used to specify the type or category of the procedure being documented in the EHR software.   |
| Reaction.Interventions..Procedures..Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type in the ProcedureType Type is used to provide a textual description or explanation of a procedure. It is used to convey additional information about the procedure, such as its purpose, method, or specific details.                  |
| Reaction.Interventions..Procedures..Status      | CodedDescriptionType | The Status member of the CodedDescriptionType Type in the ProcedureType Type is used to indicate the current status or condition of a procedure.  |
| Reaction.Interventions..Procedures..Source      | List<SourceType>     | The Source member of the List<SourceType> type in the ProcedureType class is used to store information about the source or origin of the procedure data. This could include details about the   |



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|   |                       | healthcare provider or institution that performed the procedure, the date and time it was recorded, any references or comments related to the procedure, and potentially additional actors or entities involved in the procedure.  |
| Reaction.Interventions..Procedures..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member is used to store links to other internal CCR (Continuity of Care Record) data objects within the EHR software. It provides information about the unique identifier of the linked object, the relationship between the current object and the linked object, and the source of the link. |
| Reaction.Interventions..Procedures..ReferenceID     | List<String>          | The ReferenceID member of List<String> Type in the ProcedureType Type is used to store references or identifiers related to the procedure. It could include IDs from external systems, unique identifiers for the procedure, or any other reference information associated with the procedure.                     |
| Reaction.Interventions..Procedures..CommentID       | List<String>          | The CommentID member of List<String> Type in the ProcedureType Type is used to store additional comments or notes related to the procedure.  |
| Reaction.Interventions..Procedures..Signature       | List<IDTypeSignature> | The Signature member of List<IDTypeSignature> Type in the ProcedureType Type is used to store information related to the electronic signature associated with the  |

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|  |                          | procedure.  |
| Reaction.Interventions..Procedures..Locations              | List<Location>           | The Locations member of the ProcedureType Type is used to store information about the location(s) where a procedure took place.   |
| Reaction.Interventions..Procedures..Locations.             | Location                 | The member of the Location Type in the List<Location> Type is used to store the description and reference to the location where a medication order is fulfilled or dispensed.   |
| Reaction.Interventions..Procedures..Locations..Description | CodedDescriptionType     | The Description member of the CodedDescriptionType Type in the Location Type is used to provide a text description or label for a location within the EHR software system.  |
| Reaction.Interventions..Procedures..Locations..Actor       | ActorReferenceType       | The Actor member of the ActorReferenceType Type is used to reference the actor or person associated with the location in the EHR software.  |
| Reaction.Interventions..Procedures..Practitioners          | List<ActorReferenceType> | The Practitioners member of List<ActorReferenceType> in the ProcedureType type represents the healthcare professionals or providers involved in performing or overseeing the procedure documented in the EHR software. It contains information about the unique identifier of the practitioner and their respective roles in the procedure. |
| Reaction.Interventions..Procedures..Frequency              | List<FrequencyType>      | The Frequency member of the   |

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| quency   |                            | ProcedureType type is used to specify the frequency or regularity at which a procedure should be performed. It includes information such as the description of the frequency, the value of the frequency, and the units of measurement.  |
| Reaction.Interventions..Procedures..Interval     | List<IntervalType>         | The Interval member of the List<IntervalType> type is used to specify the frequency or timing of a procedure or action within a structured product. It may include information such as the duration, units, and description of the interval.   |
| Reaction.Interventions..Procedures..Duration     | List<DurationType>         | The Duration member of the List<DurationType> type represents the duration of a procedure or medical treatment, including the length of time it should be administered or performed. It includes information such as the description of the duration, the start and end dates, the duration value, the units of measurement, and any modifiers associated with variable durations. |
| Reaction.Interventions..Procedures..Indications  | List<IndicationType>       | The "Indications" member of the "List<IndicationType>" type in the "ProcedureType" type is used to store the indications or reasons for performing a specific medical procedure.   |
| Reaction.Interventions..Procedures..Instructions | List<CodedDescriptionType> | The Instructions member of the List<CodedDescriptionType>  |

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|   |                             | type in the ProcedureType type is used to store specific instructions or guidelines related to the procedure being performed. These instructions could include information on how to prepare for the procedure, what to expect during the procedure, or post-procedure care instructions.   |
| Reaction.Interventions..Procedures..Consent   | CCRCodedDataObjectType      | The Consent member of CCRCodedDataObjectType in the ProcedureType type is used to store information related to the patient's consent for a specific medical procedure. This could include details such as the patient's agreement to the procedure, any conditions or limitations imposed on the consent, and the date and time of the consent. |
| Reaction.Interventions..Procedures..Products  | List<StructuredProductType> | The Products member of the List<StructuredProductType> type within the ProcedureType type is used to store information about the specific products or medications associated with a medical procedure.  |
| Reaction.Interventions..Procedures..Products. | StructuredProductType       | The member of StructuredProductType Type, which is a member of the List<StructuredProductType> Type, is used to store the series number associated with a medication order in an electronic health record (EHR) system.   |

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| Reaction.Interventions..Procedures..Substance                      | CodedDescriptionType | The Substance member of the CodedDescriptionType Type in the ProcedureType Type is used to describe the specific substance or medication associated with a medical procedure or action.   |
| Reaction.Interventions..Procedures..Method                         | List<MethodType>     | The Method member of the List<MethodType> Type is used to describe the specific method or technique used in a medical procedure or treatment.   |
| Reaction.Interventions..Procedures..Method.                        | MethodType           | The member of MethodType Type in the List<MethodType> Type is a method within the structured product that represents a specific sequence or step in the medication ordering process.  |
| Reaction.Interventions..Procedures..Method..MethodSequencePosition | String               | The MethodSequencePosition member of type String in the MethodType class is used to indicate the position of a method within a sequence of methods.   |
| Reaction.Interventions..Procedures..Method..MultipleMethodModifier | CodedDescriptionType | The MultipleMethodModifier member of the CodedDescriptionType Type is a text field that represents a modifier or qualifier associated with a method or procedure. It is used to provide additional details or specifications about the method or procedure being described. |
| Reaction.Interventions..Procedures..Method..Text                   | String               | The Text member of the MethodType type is a string that represents the description or details of a specific method  |

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|   |   | or procedure used in healthcare. It provides additional information about the method being performed.  |
| Reaction.Interventions..Procedures..Method..ObjectAttribute | List<CodedDescriptionTypeObjectAttribute> | The ObjectAttribute member of the List<CodedDescriptionTypeObjectAttribute> type in the MethodType type is used to store additional attributes or properties related to an object. It contains a list of CodedDescriptionTypeObjectAttributeAttribute, which may represent the possible values for the attribute, and a list of CodeType, which may represent the codes associated with the attribute. |
| Reaction.Interventions..Procedures..Method..Code            | List<CodeType>                            | The Code member of the List<CodeType> type in the MethodType type is used to represent a code value that identifies a specific concept or attribute. It is used for standardized coding and classification purposes within the EHR software.   |
| Reaction.Interventions..Procedures..Position                | List<PositionType>                        | The Position member of the List<PositionType> type in the ProcedureType type is used to specify the position or location related to a medical procedure. It may include information such as the position sequence, multiple position modifiers, textual description, object attributes, and codes related to the position.   |

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| Reaction.Interventions..Procedures..Position.                          | PositionType                              | The member of the PositionType type in the List<PositionType> type is a sequence position within a structured product. It is used to identify and define a specific position or step within a structured product, such as a medication order.  |
| Reaction.Interventions..Procedures..Position..PositionSequencePosition | String                                    | The PositionSequencePosition member of the String Type in the PositionType Type is used to indicate the sequence or order of a particular position in a structured product. It may be used to specify the position of a specific component or attribute within the product.  |
| Reaction.Interventions..Procedures..Position..MultiplePositionModifier | CodedDescriptionType                      | The MultiplePositionModifier member in the CodedDescriptionType type is used to specify additional modifiers or qualifiers related to the position.  |
| Reaction.Interventions..Procedures..Position..Text                     | String                                    | The Text member of the String Type in the PositionType Type is used to store a textual description or explanation related to a particular position.  |
| Reaction.Interventions..Procedures..Position..ObjectAttribute          | List<CodedDescriptionTypeObjectAttribute> | The ObjectAttribute member of the List<CodedDescriptionTypeObjectAttribute> type in the PositionType type is used to represent additional attributes or properties associated with an object or entity in the EHR software. These attributes may provide further details or information about the object and may be coded or |

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|  |                             | described using various codes or descriptions.  |
| Reaction.Interventions..Procedures..Position..Code | List<CodeType>              | The Code member of List<CodeType> in PositionType is used to store a specific code value that represents a particular attribute or characteristic related to a position. It is used for identifying and categorizing different position attributes within the EHR software. |
| Reaction.Interventions..Procedures..Site           | List<SiteType>              | The Site member of the List<SiteType> type in the ProcedureType type is used to specify the location or site of a medical procedure. It provides information on the position or area where the procedure is performed on the patient's body.                                |
| Reaction.Interventions..Products                   | List<StructuredProductType> | The Products member of the List<StructuredProductType> Type in the ReactionIntervention Type is used to store information about the products or medications related to a specific reaction or intervention in a patient's electronic health record (EHR).                   |
| Reaction.Interventions..Medications                | List<StructuredProductType> | The Medications member of the List<StructuredProductType> Type is used to store information about the medications prescribed or administered to a patient as part of their healthcare treatment. It includes details such as the product, quantity,                         |



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|   |                             | directions, patient instructions, fulfillment instructions, refills, series number, consent, fulfillment history, dates, identifiers, type, description, status, source, internal CCR link, references, comments, and signatures associated with the medication.  |
| Reaction.Interventions..Immunizations       | List<StructuredProductType> | The Immunizations member of List<StructuredProductType> in the ReactionIntervention Type is used to store information about immunizations administered to a patient.  |
| Reaction.Interventions..Services            | List<EncounterType>         | The Services member of the List<EncounterType> type in the ReactionIntervention type is used to capture information about the services or procedures performed during an encounter or intervention.   |
| Reaction.Interventions..Services.           | EncounterType               | The member "Locations" of the EncounterType type is used to store the locations where the encounter took place in an electronic health record (EHR) system.   |
| Reaction.Interventions..Services..Locations | List<Location>              | The Locations member of the List<Location> type in the EncounterType is used to store information about the physical locations where an encounter took place. It may contain details such as the description of the location and the actor (such as a healthcare facility or department) associated with that location. |

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| Reaction.Interventions..Services..Practitioners | List<ActorReferenceType> | The Practitioners member of the EncounterType class is used to store information about the healthcare practitioners involved in the encounter.   |
| Reaction.Interventions..Services..Frequency     | List<FrequencyType>      | The Frequency member of the List<FrequencyType> Type in the EncounterType Type represents the frequency at which a specific encounter or event occurs within a healthcare record. It provides information about the rate or pattern of occurrence, such as how often a medication is taken or how frequently a procedure is performed. |
| Reaction.Interventions..Services..Interval      | List<IntervalType>       | The Interval member of the List<IntervalType> type in the EncounterType type represents the time interval between consecutive occurrences of an event or action in the context of an encounter. It specifies the duration or frequency at which the event or action should occur.  |
| Reaction.Interventions..Services..Duration      | List<DurationType>       | The Duration member of the List<DurationType> type in the EncounterType is used to specify the duration of the encounter.  |
| Reaction.Interventions..Services..Indications   | List<IndicationType>     | The Indications member of the List<IndicationType> Type in the EncounterType is used to capture information about the reasons or indications for a particular encounter or medical event. It includes  |

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|   |                            | details such as the description of the indication, any related problems, physiological parameters, and additional modifiers. It provides valuable context and documentation for the encounter and enables better understanding of the patient's condition and treatment.                                      |
| Reaction.Interventions..Services..Instructions    | List<CodedDescriptionType> | The Instructions member of the List<CodedDescriptionType> Type in the EncounterType Type is used to store textual instructions or guidelines related to the encounter, such as how to perform certain medical procedures, administer medications, or follow specific care plans.                              |
| Reaction.Interventions..Services..Consent         | CCRCodedDataObjectType     | The Consent member of the CCRCodedDataObjectType Type in the EncounterType Type is used to store information related to patient consent within an electronic health record system. It may include details such as the consent type, status, description, source, and any associated signatures or references. |
| Reaction.Interventions..Services..CCRDataObjectID | String                     | The CCRDataObjectID member of type String in the EncounterType type is a unique identifier that is used to track and reference the encounter data object within the EHR software.   |

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| Reaction.Interventions..Services..DateTime    | List<DateTimeType>   | The DateTime member of the List<DateTimeType> Type in the EncounterType Type is used to store and represent various date and time values associated with an encounter, such as the date and time of the encounter, the date and time range of the encounter, and any approximate or estimated date and time information. |
| Reaction.Interventions..Services..IDs         | List<IDType>         | The IDs member of List<IDType> in the EncounterType type is used to store the identifiers associated with the encounter. These identifiers could include unique identification numbers, such as medical record numbers or encounter IDs, issued by different sources or systems.   |
| Reaction.Interventions..Services..Type        | CodedDescriptionType | The Type member of the CodedDescriptionType Type in EncounterType is used to specify the type or category of the encounter.  |
| Reaction.Interventions..Services..Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type is used to provide a textual description or summary of the encounter.  |
| Reaction.Interventions..Services..Status      | CodedDescriptionType | The Status member of the CodedDescriptionType Type in the EncounterType Type is used to indicate the current status or condition of the encounter.   |

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| Reaction.Interventions..Services..Source          | List<SourceType>      | The Source member of the List<SourceType> type in the EncounterType is used to store information related to the source or origin of the encounter data. It may include the description of the source, the actor or individual responsible for the encounter, the date and time of the encounter, reference and comment IDs, and potentially signature information. |
| Reaction.Interventions..Services..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the EncounterType type is used to store information about internal links within the EHR software. It includes a LinkID, which is a unique identifier for the link, LinkRelationship, which specifies the relationship between the link and other elements, and Source, which provides information about the source of the link.      |
| Reaction.Interventions..Services..ReferenceID     | List<String>          | The ReferenceID member of List<String> Type in the EncounterType is used to store a list of reference IDs associated with the encounter. These reference IDs may be used to link the encounter with other related data or documents within the EHR software.   |
| Reaction.Interventions..Services..CommentID       | List<String>          | The CommentID member of List<String> Type in the EncounterType Type is used to store unique identifiers for comments associated with a specific encounter. These   |

|   |                       |   |
|---|-----------------------|---|
|   |                       | identifiers could be used for referencing or retrieving specific comments related to the encounter in the EHR software.   |
| Reaction.Interventions..Services..Signature | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> type in the EncounterType type is used to store the signature ID associated with the encounter.   |
| Reaction.Interventions..Encounters          | List<EncounterType>   | The Encounters member of the List<EncounterType> Type in the ReactionIntervention Type is used to store information related to medical encounters or visits that a patient has had, such as hospital visits, clinic appointments, or consultations. It may include details such as the location of the encounter, the practitioners involved, the frequency and duration of the encounter, any indications or instructions associated with the encounter, and other relevant information. |
| Reaction.ReactionSequencePosition           | String                | The ReactionSequencePosition member of the Reaction Type is used to indicate the position or order of a specific reaction within a sequence of reactions. It provides information about the location or sequence of the reaction in relation to other reactions that may be present.  |
| Reaction.MultipleReactionModifier           | CodedDescriptionType  | The MultipleReactionModifier member of the CodedDescriptionType type is used to describe any modifiers  |

|                                       |                          |  |
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|                                       |                          | or additional information related to multiple reactions associated with a specific reaction. It provides additional context or details about the multiple reactions that may be relevant for healthcare providers or clinicians in managing or treating the reactions effectively.   |
| FulfillmentHistory                    | List<OrderRxHistoryType> | The FulfillmentHistory member of List<OrderRxHistoryType> in the StructuredProductType Type is used to store a history of medication fulfillment events, including details such as the method of fulfillment, provider and location information, reaction, product name, strength, quantity, instructions, datetime, and other related data. |
| FulfillmentHistory.                   | OrderRxHistoryType       | The member `Provider` in the `OrderRxHistoryType` type is used to store the information of the healthcare provider who fulfilled the medication order.   |
| FulfillmentHistory..FulfillmentMethod | CodedDescriptionType     | The FulfillmentMethod member of CodedDescriptionType in the OrderRxHistoryType class is used to indicate how a medication order was fulfilled or delivered to the patient, such as whether it was dispensed by a pharmacy, delivered by mail, or administered by a healthcare provider.  |

|                                 |                      |   |
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| FulfillmentHistory..Provider    | ActorReferenceType   | The Provider member of ActorReferenceType Type in the OrderRxHistoryType Type is used to identify the healthcare provider associated with the medication order.   |
| FulfillmentHistory..Location    | ActorReferenceType   | The Location member of the ActorReferenceType Type is used to specify the location associated with the order prescription or medication history.  |
| FulfillmentHistory..Reaction    | List<Reaction>       | The Reaction member in the OrderRxHistoryType type is used to store information about any adverse reactions or allergies that the patient may have experienced in response to the medication order.   |
| FulfillmentHistory..Reaction.   | Reaction             | The member of Reaction Type is a description of the reaction experienced by a patient in response to a medication. It provides information about the description, severity, and status of the reaction. It may also include interventions or modifiers related to the reaction. |
| FulfillmentHistory..ProductName | CodedDescriptionType | The ProductName member of the CodedDescriptionType Type, which is a member of the OrderRxHistoryType Type, is used to store the name or description of a medication product prescribed or ordered for a patient in an EHR software.   |
| FulfillmentHistory..BrandName   | String               | The BrandName member of String Type in the  |



|                                  |                            |   |
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|                                  |                            | OrderRxHistoryType Type represents the brand name of a medication. This field is used to store the specific brand name assigned to a medication product in the electronic health record (EHR) system.   |
| FulfillmentHistory..Manufacturer | ActorReferenceType         | The Manufacturer member of the ActorReferenceType Type is used to represent the manufacturer or company that produces the medication mentioned in the medication order.   |
| FulfillmentHistory..Strength     | List<MeasureType>          | The Strength member of the List<MeasureType> type in the OrderRxHistoryType type represents the strength of a medication. It specifies the numerical value and units of measurement for the potency or concentration of the medication. This information is important for accurately prescribing and administering the medication to the patient. |
| FulfillmentHistory..Strength.    | MeasureType                | The Value member of MeasureType is used to store a numerical value related to a measure or measurement taken in the context of an Electronic Health Record (EHR) software.  |
| FulfillmentHistory..Form         | List<CodedDescriptionType> | The Form member of List<CodedDescriptionType> Type in the OrderRxHistoryType Type is used to represent the different forms in which a medication can be administered, such as tablets, capsules, liquids, or  |

|                                       |                       |   |
|---------------------------------------|-----------------------|---|
|                                       |                       | injections.   |
| FulfillmentHistory..Concentration     | List<MeasureType>     | The Concentration member of the List<MeasureType> type in the OrderRxHistoryType type represents the concentration of a medication. It provides the value of the concentration and the units in which it is measured. This information is commonly used in electronic health record (EHR) systems to accurately prescribe and administer medications to patients. |
| FulfillmentHistory..Quantity          | List<MeasureType>     | The Quantity member of List<MeasureType> is used to represent the amount or dosage of a medication order in the EHR software.   |
| FulfillmentHistory..LabelInstructions | List<InstructionType> | The LabelInstructions member of the List<InstructionType> Type in the OrderRxHistoryType Type is used to store instructions for labeling the medication prescription.   |
| FulfillmentHistory..SeriesNumber      | String                | The SeriesNumber member of type String in the OrderRxHistoryType is used to track and identify specific sequences or sets of medication orders within the electronic health record system.  |
| FulfillmentHistory..CCRDataObjectID   | String                | The CCRDataObjectID member of String Type in the OrderRxHistoryType Type is used as a unique identifier for the medication order history entry in the EHR software. It is   |

|                                 |                      |   |
|---------------------------------|----------------------|---|
|                                 |                      | used to uniquely identify and reference the specific medication order record within the EHR system.   |
| FulfillmentHistory..DateTime    | List<DateTimeType>   | The DateTime member of the List<DateTimeType> Type in the OrderRxHistoryType Type is used to store specific date and time information related to medication order history.  |
| FulfillmentHistory..IDs         | List<IDType>         | The IDs member of the List<IDType> type in the OrderRxHistoryType is used to store various identifiers associated with the medication order, such as the prescription ID, the medication's internal ID, or any other relevant identification numbers. |
| FulfillmentHistory..Type        | CodedDescriptionType | The Type member of the CodedDescriptionType Type in the OrderRxHistoryType Type is used to provide a specific classification or category for an order's description or status in the electronic health record (EHR) software.                         |
| FulfillmentHistory..Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type in the OrderRxHistoryType Type is used to provide a textual description or explanation of a particular aspect or characteristic related to a medication order or prescription history.        |
| FulfillmentHistory..Status      | CodedDescriptionType | The Status member of the CodedDescriptionType represents the current status   |

|                                     |                       |   |
|-------------------------------------|-----------------------|---|
|                                     |                       | or condition of the medication order in the EHR system.   |
| FulfillmentHistory..Source          | List<SourceType>      | The Source member of the List<SourceType> type in the OrderRxHistoryType type is used to capture the source or origin of the medication order. This could include information about the entity or system that generated or entered the order, such as the healthcare provider or the electronic health record system.             |
| FulfillmentHistory..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member in the List<InternalCCRLink> type is used to store links or references to internal or external resources related to the medication order. These resources could include additional documentation, information, or references that provide further context or clarification about the medication order. |
| FulfillmentHistory..ReferenceID     | List<String>          | The ReferenceID member of List<String> Type in the OrderRxHistoryType Type is used to store reference identifiers related to the medication orders. It is used to link or associate the medication order with other related information or entities in the electronic health record system.                                       |
| FulfillmentHistory..CommentID       | List<String>          | The CommentID member of List<String> Type in OrderRxHistoryType is used to store unique identifiers or references to comments   |

|                               |                       |   |
|-------------------------------|-----------------------|---|
|                               |                       | related to medication order history in the electronic health record system.   |
| FulfillmentHistory..Signature | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> type is used to store the signature ID or identifier associated with a specific order or prescription in the EHR software.  |
| CCRDataObjectID               | String                | The CCRDataObjectID member of String Type in the StructuredProductType Type is used to uniquely identify the medication order within the Electronic Health Record (EHR) system.   |
| DateTime                      | List<DateTimeType>    | The DateTime member of List<DateTimeType> Type is used to store various date and time information related to the medication order in the EHR software. It may include the exact date and time of the order, age of the patient at the time of the order, approximate date and time, and a range of dates and times if applicable. |
| IDs                           | List<IDType>          | The IDs member of the List<IDType> type in the StructuredProductType type is used to store identification information related to the medication order, such as the unique identifier of the order, the type of identification, the ID issued by a specific actor or entity, and other relevant information.                       |
| Type                          | CodedDescriptionType  | The Type member of CodedDescriptionType is used   |

|             |                      |   |
|-------------|----------------------|---|
|             |                      | to specify the type or category of a structured product within an electronic health record (EHR) system. It provides a textual description and code(s) that categorize or classify the product in a standardized manner.  |
| Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type is used to provide a text description of a coded item in the StructuredProductType. It is used to describe the item in a more human-readable format and provide additional information or context.  |
| Status      | CodedDescriptionType | The Status member of the CodedDescriptionType in the StructuredProductType type is used to indicate the current status or condition of the medication order in the electronic health record (EHR) system. It provides information about whether the medication order is active, completed, pending, cancelled, or any other relevant status that reflects the progress or outcome of the order. |
| Source      | List<SourceType>     | The Source member of the List<SourceType> type in StructuredProductType is used to store information about the source or origin of the medication order, such as the healthcare provider or institution that prescribed it. It may include details such as the name of the actor or provider, the date and time of the order,   |

|                 |                       |  |
|-----------------|-----------------------|--|
|                 |                       | and any relevant reference or comment IDs associated with it.  |
| InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member is used to store internal links within the EHR software associated with the medication order.   |
| ReferenceID     | List<String>          | The ReferenceID member of the List<String> Type in the StructuredProductType is used to store a unique identifier or reference number associated with the medication order. It may be used to link the medication order to other related information or systems within the EHR software. |
| CommentID       | List<String>          | The CommentID member of List<String> Type in the StructuredProductType is used to store a list of unique identifiers for comments related to the medication order.   |
| Signature       | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> type is used to store the signature ID associated with the medication order, which is used for authentication and verification purposes in an EHR software.  |

## Lab Result CCR - "ehr\_file" CSV Export

The ehr\_file table is a storage table used in an Electronic Health Record (EHR) software system. It contains Lab Result Continuity of Care Records (CCRs) which are generated as a result of laboratory tests performed on patients. The table stores the CCRs along with relevant metadata such as the account ID of the patient, the type of CCR, the date and time of the result, the last modification date and time, the employee ID who uploaded the CCR, and the location ID where the CCR was uploaded. The table also includes fields for tracking the identification of patient education resources associated with the CCRs and for tracking the upload status of the CCRs.

| Column Name            | Data Type                   | Description  | Extraction Method               |
|------------------------|-----------------------------|--|---------------------------------|
| fid                    | int                         | The 'fid' column is an auto-incrementing identifier for each record in the 'ehr_file' table. It serves as the primary key for the table. | CSV                             |
| acctid                 | int                         | The acctid column is the unique patient ID associated with the ehr_file record.  | CSV                             |
| type                   | int                         | The type column in the ehr_file table represents the type of the electronic health record file.  | CSV                             |
| datet                  | datetime<br>default<br>NULL | The 'datet' column stores the date and time when the file was created or last modified.  | CSV                             |
| data                   | longblob                    | The 'data' column in the 'ehr_file' table contains the actual electronic health record data for a patient.                               | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the file was last modified.  | CSV                             |
| empid                  | int                         | The empid column is the unique identifier for an employee in the database.   | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column is a boolean flag that identifies whether the file is related  | CSV                             |



|                             |                             |   |     |
|-----------------------------|-----------------------------|---|-----|
|                             |                             | to patient educational resources.   |     |
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column represents the date and time when the patient education resource identification was last modified. | CSV |
| locid                       | int                         | The locid column is the unique location ID associated with a record in the ehr_file table.  | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for the patient.   | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the file was uploaded for the patient.                                     | CSV |
| insert_guid                 | varchar                     | The `insert_guid` column is a unique identifier that is generated during the insertion of a record into the `ehr_file` table.             | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column is a timestamp that indicates the date and time when the record was created in the ehr_file table.            | CSV |
| sub_type                    | int                         | The sub_type column represents a specific subtype or category related to the type of electronic health record file.                       | CSV |

## ResultType Type

The ResultType Type is used to store structured data related to lab results in an electronic health record (EHR). It contains information such as procedures, substances, tests, dates, IDs, descriptions, statuses, sources, links, reference IDs, comments, and signatures. It is used to capture and display lab test results in a standardized format for healthcare providers and patients to review and analyze. A ResultType is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name                | Type                | Description  |
|----------------------------|---------------------|--|
|                            | ResultType          | The member "Procedure" in the ResultType type is used to store a list of procedures associated with a lab result.  |
| Procedure                  | List<ProcedureType> | The Procedure member of the List<ProcedureType> Type is used to store information about medical procedures performed on a patient. This could include details such as the procedure type, description, status, date and time, source, practitioners involved, locations, indications, instructions, and other related information. |
| Procedure.                 | ProcedureType       | The member of ProcedureType Type, which is a member of the List<ProcedureType> Type, is used to store information about the location where a procedure was performed.  |
| Procedure..CCRDataObjectID | String              | The CCRDataObjectID member of String Type in the ProcedureType is  |

|                                |                      |  |
|--------------------------------|----------------------|--|
|                                |                      | used as a unique identifier for the specific procedure in the electronic health record (EHR) system. It is used to link and reference the procedure data across different components of the EHR software.  |
| Procedure..DateTime            | List<DateTimeType>   | The DateTime member of the ProcedureType Type is used to store the date and time information related to a specific procedure.  |
| Procedure..DateTime.           | DateTimeType         | The DateTimeType member of the List<DateTimeType> type in ResultType is used to represent date and time information related to a lab result or procedure. It includes details such as the type of date/time (exact, approximate), the exact date/time value, the age of the patient at the time, and any date/time ranges associated with the result or procedure. |
| Procedure..DateTime..Type      | CodedDescriptionType | The Type member of the CodedDescriptionType within the DateTimeType is used to specify the type or category of the coded description, providing additional context or categorization for the associated data.  |
| Procedure..DateTime..Type.Text | String               | The Text member of the String Type in the CodedDescriptionType is used to store the text description or label of a   |

|  |   |   |
|--|---|---|
|  |   | coded description.  |
| Procedure..DateTime..Type.ObjectAttribute            | List<CodedDescriptionTypeObjectAttribute> | The ObjectAttribute member of the CodedDescriptionTypeObjectAttribute class is used to represent additional attributes or characteristics associated with a coded description. These attributes may provide additional information or context about the description, such as qualifiers, modifiers, or other properties.  |
| Procedure..DateTime..Type.ObjectAttribute.           | CodedDescriptionTypeObjectAttribute       | The member of the CodedDescriptionTypeObjectAttribute type is used to represent an attribute of a coded description object. It contains the attribute name, a list of possible attribute values, and a list of codes associated with the attribute. It is used within the List<CodedDescriptionTypeObjectAttribute> type to provide additional information about a coded description. |
| Procedure..DateTime..Type.ObjectAttribute..Attribute | String                                    | The Attribute member of the String Type in the CodedDescriptionTypeObjectAttribute Type is used to store the attribute or characteristic associated with a specific coded description. It could be used to provide additional details or context about the coded description in the   |

|  |   |  |
|--|---|--|
|  |   | EHR software.  |
| Procedure..DateTime..Type.ObjectAttribute..AttributeValue        | List<CodedDescriptionTypeObjectAttributeAttributeValue> | The AttributeValue member of the List<CodedDescriptionTypeObjectAttributeAttributeValue> type is used to store the possible attribute values associated with a specific attribute of a coded description object. It provides a way to represent multiple attribute values and their corresponding codes within the CodedDescriptionTypeObjectAttribute object in the EHR software. |
| Procedure..DateTime..Type.ObjectAttribute..AttributeValue.       | CodedDescriptionTypeObjectAttributeAttributeValue       | The member of CodedDescriptionTypeObjectAttributeAttributeValue Type is used to store attribute values for a coded description within an electronic health record (EHR) system.  |
| Procedure..DateTime..Type.ObjectAttribute..AttributeValue..Value | Object  | The Value member of the Object Type in the CodedDescriptionTypeObjectAttributeAttributeValue is used to store the actual value or data associated with a specific attribute or property of an object in the EHR software.  |
| Procedure..DateTime..Type.ObjectAttribute..AttributeValue..Code  | List<CodeType>  | The Code member of List<CodeType> is used to store the code value associated with a particular attribute or attribute value in the CodedDescriptionTypeObject  |

|   |          |  |
|---|----------|--|
|   |          | ctAttributeAttributeValue type. This code value represents a specific identifier or classification system for the attribute or attribute value.  |
| Procedure..DateTime..Type.ObjectAttribute..AttributeValue..Code.              | CodeType | The member of the CodeType type is used to store a specific code value that represents a particular concept or classification system within the EHR software.  |
| Procedure..DateTime..Type.ObjectAttribute..AttributeValue..Code..Value        | String   | The Value member of String Type in the CodeType Type is used to store the actual value or code associated with a specific concept or term in a standardized coding system, such as LOINC or SNOMED CT. It represents the specific code or identifier that uniquely identifies a particular concept in the coding system. |
| Procedure..DateTime..Type.ObjectAttribute..AttributeValue..Code..CodingSystem | String   | The CodingSystem member of String Type in the CodeType Type is used to specify the coding system or standard that the code value belongs to. This allows for the proper interpretation and use of the code value within the EHR software.  |
| Procedure..DateTime..Type.ObjectAttribute..AttributeValue..Code..Version      | String   | The Version member of the String Type in the CodeType Type is used to represent the version of the coding system used for the code   |

|   |                |   |
|---|----------------|---|
|   |                | value in an electronic health record (EHR) software.  |
| Procedure..DateTime..Type.ObjectAttribute..Code | List<CodeType> | The Code member of the List<CodeType> type is used to store a specific code value associated with a certain attribute or characteristic of a coded description. It represents a standardized identifier that corresponds to a specific concept or category within a coding system.  |
| Procedure..DateTime..Type.Code                  | List<CodeType> | The Code member of the List<CodeType> type is used to store a specific code value that identifies a particular concept or item, such as a medical condition or procedure. This code value is typically defined by a specific coding system, such as SNOMED CT or ICD-10, and may have a specified version number. It provides a standardized way to represent and communicate information about the concept or item within the electronic health record (EHR) software. |
| Procedure..DateTime..ExactDateTime              | String         | The ExactDateTime member of String Type in the DateTimeType Type is used to store the exact date and time of an event or observation captured in the electronic health record (EHR).  |

|                                     |                  |  |
|-------------------------------------|------------------|--|
| Procedure..DateTime..Age            | MeasureType      | The Age member of the MeasureType Type in the DateTimeType Type is used to store the age of a patient at a specific date and time.   |
| Procedure..DateTime..Age.Value      | String           | The Value member of String Type in the MeasureType Type is used to store the numerical value of a measurement, such as a lab result or vital sign, in electronic health record (EHR) software.   |
| Procedure..DateTime..Age.Units      | MeasureTypeUnits | The Units member of the MeasureTypeUnits Type is used to specify the unit of measurement associated with a particular value in the MeasureType Type.   |
| Procedure..DateTime..Age.Units.Unit | String           | The Unit member of String Type in the MeasureTypeUnits Type is used to represent the unit of measurement for a specific measure or parameter in the EHR software.  |
| Procedure..DateTime..Age.Units.Code | List<CodeType>   | The Code member of the List<CodeType> Type within the MeasureTypeUnits Type is used to represent a specific code value associated with a measurement unit. It provides a standardized identifier for the unit of measurement being used. |
| Procedure..DateTime..Age.Code       | List<CodeType>   | The Code member of the List<CodeType> Type is used to store the code   |



|  |                                 |   |
|--|---------------------------------|---|
|  |                                 | value and coding system information associated with a specific measure or result in the electronic health record (EHR) software.  |
| Procedure..DateTime..ApproximateDateTime | CodedDescriptionType            | The ApproximateDateTime member of the CodedDescriptionType Type in the DateTimeType Type is used to represent an estimated or approximate date and time value. It allows for the inclusion of imprecise or uncertain information regarding the specific date and time of an event or measurement captured in an EHR software. |
| Procedure..DateTime..DateTimeRange       | List<DateTimeTypeDateTimeRange> | The DateTimeRange member is used to represent a range of dates and times within the DateTimeType. It provides the beginning and end points of the range, allowing for more flexibility in specifying date and time references within the EHR software.  |
| Procedure..DateTime..DateTimeRange.      | DateTimeTypeDateTimeRange       | The member DateTimeTypeDateTimeRange in the List<DateTimeTypeDateTimeRange> type is used to represent a range of dates or times within a specific DateTimeType, such as the beginning and end range of a specific event or measurement.   |

|  |                                     |  |
|--|-------------------------------------|--|
| Procedure..DateTime..DateTimeRange..BeginRange                     | DateTimeTypeDateTimeRangeBeginRange | The BeginRange member of the DateTimeTypeDateTimeRangeBeginRange type is used to store the starting point of a date and time range. It can contain the exact date and time, an age value, or an approximate date and time, depending on the specific use case within the EHR software. |
| Procedure..DateTime..DateTimeRange..BeginRange.ExactDateTime       | String                              | The ExactDateTime member of the String Type in the DateTimeTypeDateTimeRangeBeginRange Type represents the exact date and time of a specific event or observation. It is used to record the precise timing of a laboratory test result in an EHR system.                               |
| Procedure..DateTime..DateTimeRange..BeginRange.Age                 | MeasureType                         | The Age member of the MeasureType Type in the DateTimeTypeDateTimeRangeBeginRange Type is used to represent the age of the patient at the specific date and time indicated in the ExactDateTime member.  |
| Procedure..DateTime..DateTimeRange..BeginRange.ApproximateDateTime | CodedDescriptionType                | The ApproximateDateTime member of the CodedDescriptionType Type, which is a member of the DateTimeTypeDateTimeRangeBeginRange Type, is used to indicate an approximate or estimated date and time. This is used when the exact date and time of an event                               |

|  |                                   |   |
|--|-----------------------------------|---|
|  |                                   | or measurement is not known, but an approximation can be provided.  |
| Procedure..DateTime..DateTimeRange..EndRange                     | DateTimeTypeDateTimeRangeEndRange | The EndRange member of the DateTimeTypeDateTimeRangeEndRange type is used to specify the end range of a date or time period. It can contain an exact date and time, an age measurement, or an approximate date and time.  |
| Procedure..DateTime..DateTimeRange..EndRange.ExactDateTime       | String                            | The ExactDateTime member of String Type in the DateTimeTypeDateTimeRangeEndRange Type is used to store the exact date and time of an event or a measurement in the electronic health record (EHR) software.   |
| Procedure..DateTime..DateTimeRange..EndRange.Age                 | MeasureType                       | The Age member of the MeasureType Type represents the age of a patient at the time of a particular event or measurement. It is used to document the patient's age in units such as years, months, or days, providing contextual information along with the precise date and time. |
| Procedure..DateTime..DateTimeRange..EndRange.ApproximateDateTime | CodedDescriptionType              | The ApproximateDateTime member of CodedDescriptionType Type in the DateTimeTypeDateTimeRangeEndRange Type is used to store an approximate date and time of an event or a measurement in the electronic health record (EHR) software.  |

|                         |                      |   |
|-------------------------|----------------------|---|
|                         |                      | geEndRange Type is used to represent an estimate or approximation of the date and time associated with a specific event or measurement in the electronic health record (EHR) software.  |
| Procedure..IDs          | IDType               | The IDs member of IDType in the ProcedureType type is used to store various identification details related to the procedure. It may include information such as the type of identification, the ID value, the date and time of issuance, the entity that issued the ID, and other related metadata.   |
| Procedure..IDs.DateTime | List<DateTimeType>   | The DateTime member of List<DateTimeType> Type is used to store date and time information related to the IDType. It can store the exact date and time of an event, an approximate date and time, or a range of dates and times. It may also include additional information such as the type of date and time (e.g., start or end) and the age of the event. |
| Procedure..IDs.Type     | CodedDescriptionType | The Type member of the CodedDescriptionType Type in the IDType Type is used to specify the type or category of the ID being described.  |
| Procedure..IDs.ID       | String               | The ID member of String Type in the IDType class is   |

|                                    |                            |   |
|------------------------------------|----------------------------|---|
|                                    |                            | used to store the unique identifier associated with a specific piece of information or event, such as a lab result or procedure. It is used to uniquely identify and track the data within the EHR software system.     |
| Procedure..IDs.IssuedBy            | ActorReferenceType         | The IssuedBy member of the ActorReferenceType type in the IDType type is used to indicate the actor or entity that issued or generated the ID.  |
| Procedure..IDs.IssuedBy.ActorID    | String                     | The ActorID member of type String in the ActorReferenceType is used to store an identifier for the actor referenced in the EHR software.  |
| Procedure..IDs.IssuedBy.ActorRole  | List<CodedDescriptionType> | The ActorRole member of the List<CodedDescriptionType> Type in the ActorReferenceType Type is used to identify the roles or functions that a particular actor or entity has within the electronic health record system. |
| Procedure..IDs.IssuedBy.ActorRole. | CodedDescriptionType       | The member "Type" within the List<CodedDescriptionType> is used to indicate the type or category of a lab result, procedure, or test within the EHR software.   |
| Procedure..IDs.Source              | List<SourceType>           | The Source member of List<SourceType> in the  |

|                                    |                      |   |
|------------------------------------|----------------------|---|
|                                    |                      | IDType Type is used to store information about the source or origin of the ID, such as the description, actor (person or organization), and the date and time of when the ID was obtained or issued.  |
| Procedure..IDs.Source.             | SourceType           | The member of the SourceType Type, which is a member of the List<SourceType> Type, appears to represent the source of the lab test result. It contains information such as the description of the source, the actor or entity responsible for the result, the date and time of the result, and any reference or comment IDs associated with it. This allows for tracking and information retrieval about the origin of the lab test result within the EHR software. |
| Procedure..IDs.Source..Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type represents the textual description associated with the source or origin of the information within the electronic health record (EHR) system. It provides additional information to describe the source in more detail, such as the name or identifier of the organization, department, or individual responsible for generating or recording the data.  |

|                                     |                          |  |
|-------------------------------------|--------------------------|--|
| Procedure..IDs.Source..Actor        | List<ActorReferenceType> | The Actor member of the List<ActorReferenceType> Type is used to store information about the actor or person associated with the source of the lab result. This could include details such as the ID of the actor and their role in the healthcare process.      |
| Procedure..IDs.Source..Actor.       | ActorReferenceType       | The member of ActorReferenceType type, which is a member of the List<ActorReferenceType> type, is used to represent the actor ID and role associated with a particular actor in the electronic health record (EHR) system.                                       |
| Procedure..IDs.Source..DateTime     | DateTimeType             | The DateTime member of DateTimeType Type is used to store the date and time information related to a specific event or data entry in the electronic health record (EHR) system.  |
| Procedure..IDs.Source..ReferenceID  | List<String>             | The ReferenceID member of List<String> Type within the SourceType Type is used to store reference IDs related to the source of the lab result. These reference IDs could be used to link the lab result to other records or data within the EHR software system. |
| Procedure..IDs.Source..ReferenceID. | String                   | The member of String Type in the List<String> Type is used to store a string value.  |

|  |                       |   |
|--|-----------------------|---|
| Procedure..IDs.Source..CommentID       | List<String>          | The CommentID member of List<String> Type in the SourceType Type is used to store unique identifiers or codes associated with comments related to the source of the lab result. These identifiers or codes may be used for reference or tracking purposes within the EHR software.  |
| Procedure..IDs.InternalCCRLink         | List<InternalCCRLink> | The InternalCCRLink member is used to store the internal links associated with an ID, such as links to other relevant records or documents within the EHR system.   |
| Procedure..IDs.InternalCCRLink.        | InternalCCRLink       | The member of the InternalCCRLink type in the List<InternalCCRLink> type is used to store information about a link to an internal CCR (Continuity of Care Record). It contains a LinkID, which is a unique identifier for the link, and a list of LinkRelationship, which specifies the relationship between the link and the parent record. The member also includes a Source, which provides additional details about the source of the link. |
| Procedure..IDs.InternalCCRLink..LinkID | String                | The LinkID member of type String in the InternalCCRLink class is used to store a unique identifier or reference for the internal link associated  |



|  |                          |  |
|--|--------------------------|--|
|  |                          | with the lab result CCR.   |
| Procedure..IDs.InternalCCRLink..LinkRelationship   | List<String>             | The LinkRelationship member of the List<String> Type in the InternalCCRLink Type is used to define the relationship between the InternalCCRLink and other elements or entities within the electronic health record (EHR) system.   |
| Procedure..IDs.InternalCCRLink..Source             | InternalCCRLinkSource    | The Source member in the InternalCCRLinkSource Type is used to provide information about the source of the internal CCR link. It may contain details such as the description of the source, actors involved, reference IDs, comment IDs, and the date and time of the link.  |
| Procedure..IDs.InternalCCRLink..Source.Description | CodedDescriptionType     | The Description member of the CodedDescriptionType Type represents the textual description or explanation associated with an entity or object, such as a medical procedure, substance, or test. It provides additional context or details about the specific entity or object being described within the InternalCCRLinkSource Type. |
| Procedure..IDs.InternalCCRLink..Source.Actor       | List<ActorReferenceType> | The Actor member of the List<ActorReferenceType> type is used to represent the actors or individuals involved in the internal CCR link source. It may contain information such as the ID   |

|  |              |  |
|--|--------------|--|
|  |              | of the actor and their role in the CCR link source.  |
| Procedure..IDs.InternalCCRLink..Source.DateTime    | DateTimeType | The DateTime member of DateTimeType Type is used to represent a specific date and time associated with the InternalCCRLinkSource. It can include the exact date and time, an approximate date and time, or a range of date and time. |
| Procedure..IDs.InternalCCRLink..Source.ReferenceID | List<String> | The ReferenceID member of List<String> Type in the InternalCCRLinkSource Type is used to store unique identifiers or codes that reference other data or documents within the EHR system.   |
| Procedure..IDs.InternalCCRLink..Source.CommentID   | List<String> | The CommentID member of type List<String> in the InternalCCRLinkSource type is used to store a list of unique identifiers for comments associated with the internal CCR link.  |
| Procedure..IDs.ReferenceID                         | List<String> | The ReferenceID member in the IDType is used to store reference IDs associated with the particular ID. These reference IDs could be used for cross-referencing or linking related data within the EHR software.                      |
| Procedure..IDs.CommentID                           | List<String> | The CommentID member of the List<String> type in the IDType class is used to store any comments or additional information  |

|                                       |                       |   |
|---------------------------------------|-----------------------|---|
|                                       |                       | associated with the specific identifier.  |
| Procedure..IDs.Signature              | List<IDTypeSignature> | The Signature member of List<IDTypeSignature> Type is used to store information related to electronic signatures or digital signatures associated with the IDType.  |
| Procedure..IDs.Signature.             | IDTypeSignature       | The member "SignatureID" of the IDTypeSignature type is used to identify a unique signature associated with a specific result or record in the EHR system.  |
| Procedure..IDs.Signature..SignatureID | String                | The SignatureID member of String Type in the IDTypeSignature Type is used to store a unique identifier for a signature associated with a medical record or document in an EHR software.   |
| Procedure..Type                       | CodedDescriptionType  | The Type member of CodedDescriptionType is used to represent the type or category of a procedure in an Electronic Health Record (EHR) software.   |
| Procedure..Description                | CodedDescriptionType  | The Description member of the CodedDescriptionType type is used to provide a textual description of a procedure or test result. It provides additional information about the procedure or test being performed, such as the reason for the procedure or the interpretation of the |

|                            |                       |  |
|----------------------------|-----------------------|--|
|                            |                       | test result.   |
| Procedure..Status          | CodedDescriptionType  | The Status member of the CodedDescriptionType Type in the ProcedureType Type is used to indicate the current status or condition associated with a procedure in an electronic health record (EHR) software.  |
| Procedure..Source          | List<SourceType>      | The Source member of List<SourceType> is used to store information about the source or origin of the procedure. It may include details such as the description of the source, the actor or entity associated with the source, the date and time of the procedure, and any reference or comment IDs related to the source.  |
| Procedure..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the ProcedureType type is used to store internal links within the CCR (Continuity of Care Record) data. It contains information about the link identifier, link relationships, and the source of the link. It provides a way to connect related information within the CCR data and establish relationships between different data elements. |
| Procedure..ReferenceID     | List<String>          | The ReferenceID member of the List<String> Type in the ProcedureType type represents a reference identifier associated with a  |

|                       |                       |   |
|-----------------------|-----------------------|---|
|                       |                       | specific procedure. It is used to uniquely identify and reference the procedure in the electronic health record (EHR) software.   |
| Procedure..CommentID  | List<String>          | The CommentID member of the List<String> Type is a collection of unique identifiers that are used to associate comments or additional information with a specific procedure.  |
| Procedure..Signature  | List<IDTypeSignature> | The Signature member of List<IDTypeSignature> in the ProcedureType type is used to store the ID or reference of the signature associated with the procedure.  |
| Procedure..Locations  | List<Location>        | The Locations member of the List<Location> type in the ProcedureType is used to store information about the location where a procedure took place. It includes a description of the location and a reference to the actor (such as a healthcare facility or clinic) associated with the location. |
| Procedure..Locations. | Location              | The member of the Location Type, which is a member of the List<Location> Type, is used to store the description and actor/reference information of a specific location related to the electronic health   |

|                                   |                          |   |
|-----------------------------------|--------------------------|---|
|                                   |                          | record (EHR) data.  |
| Procedure..Locations..Description | CodedDescriptionType     | The Description member of the CodedDescriptionType in the Location Type is used to store a text description or label associated with a specific location within the EHR software. This description may provide additional context or details about the location, helping to identify or provide information about where certain records or data are stored or related to.                                   |
| Procedure..Locations..Actor       | ActorReferenceType       | The Actor member of the ActorReferenceType Type is used to identify and reference a specific actor or participant within the EHR software system. This could include healthcare providers, patients, administrators, or any other individuals involved in the healthcare process. It is used to associate the location with a specific actor and provide additional details or roles related to that actor. |
| Procedure..Practitioners          | List<ActorReferenceType> | The Practitioners member of List<ActorReferenceType> Type in the ProcedureType Type is used to store information about the healthcare providers or practitioners involved in the procedure.   |

|                                   |                      |   |
|-----------------------------------|----------------------|---|
| Procedure..Frequency              | List<FrequencyType>  | The Frequency member of List<FrequencyType> Type is used to specify the frequency at which a procedure or test is performed. It contains information such as the description of the frequency, the value of the frequency, the units of the frequency, and any code associated with the frequency.  |
| Procedure..Frequency.             | FrequencyType        | The member of FrequencyType Type in the List<FrequencyType> Type is used to describe the frequency or rate of a particular event or occurrence related to healthcare data.  |
| Procedure..Frequency..Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type in the FrequencyType Type is used to provide a text description or explanation of the frequency of an event or occurrence. This could include information such as how often a test is conducted or how frequently a procedure is performed. |
| Procedure..Frequency..Value       | String               | The Value member of String Type in the FrequencyType is used to store the actual value of the frequency, such as the number of times a procedure is performed or the duration between each  |

|   |                |  |
|---|----------------|--|
|   |                | occurrence.  |
| Procedure..Frequency..Units                     | RateTypeUnits  | The Units member of the RateTypeUnits Type is used to specify the unit of measurement for a rate or frequency value.   |
| Procedure..Frequency..Units.Unit                | String         | The Unit member of String Type in the RateTypeUnits Type is used to represent the unit of measurement for a rate or ratio value in the context of electronic health records (EHR) software.  |
| Procedure..Frequency..Units.Code                | List<CodeType> | The Code member of the List<CodeType> Type in the RateTypeUnits Type is used to store a specific value of a code related to the unit of measurement. It is used to provide standardized coding information for the unit of measurement in healthcare data. |
| Procedure..Frequency..Code                      | List<CodeType> | The Code member of the List<CodeType> Type in the FrequencyType Type is used to store codes related to the frequency of a specific event or condition in the EHR software.   |
| Procedure..Frequency..FrequencySequencePosition | String         | The FrequencySequencePosition member of String Type in the FrequencyType Type is used to indicate the sequence position of a specific frequency in a recurring event or action. It helps in organizing and   |



|   |                      |  |
|---|----------------------|--|
|   |                      | determining the order of frequencies within a set or series.   |
| Procedure..Frequency..VariableFrequencyModifier | CodedDescriptionType | The VariableFrequencyModifier member of the CodedDescriptionType Type is a text attribute that provides additional information about the variable frequency of a medical procedure or test. It is used to describe any modifications or variations in the frequency of the procedure or test, such as irregular or changing intervals. |
| Procedure..Interval                             | List<IntervalType>   | The Interval member of the List<IntervalType> type in the ProcedureType type represents the time interval associated with a procedure. It specifies the duration or frequency at which the procedure should be performed or repeated.  |
| Procedure..Interval.                            | IntervalType         | The member of IntervalType Type is a description of the interval or duration associated with a certain event or measurement. It provides information about the length or duration of a specific time interval or period.   |
| Procedure..Interval..Description                | CodedDescriptionType | The Description member of the CodedDescriptionType type is used to provide a text description or label for   |

|   |                      |   |
|---|----------------------|---|
|   |                      | the associated code or object. It is used to provide additional information or context about the code or object within the IntervalType.  |
| Procedure..Interval..Value                    | String               | The Value member of the String Type in the IntervalType Type is used to store a numeric value related to the interval data.   |
| Procedure..Interval..Units                    | RateTypeUnits        | The Units member of the RateTypeUnits Type is used to specify the unit of measurement for a rate value in the IntervalType Type.  |
| Procedure..Interval..Code                     | List<CodeType>       | The `Code` member of `List<CodeType>` in the `IntervalType` type is used to store a specific code value associated with an interval. This code value represents a standardized identifier or classification system used to categorize or identify the interval. |
| Procedure..Interval..IntervalSequencePosition | String               | The IntervalSequencePosition member of String Type in the IntervalType Type is used to represent the position of the interval within a sequence of intervals.   |
| Procedure..Interval..VariableIntervalModifier | CodedDescriptionType | The VariableIntervalModifier member of the CodedDescriptionType Type in the IntervalType Type is  |

|                                  |                      |  |
|----------------------------------|----------------------|--|
|                                  |                      | used to define a variable interval modifier for an interval.   |
| Procedure..Duration              | List<DurationType>   | The Duration member of List<DurationType> in the ProcedureType type is used to store the duration and associated information of a procedure or medical event.  |
| Procedure..Duration.             | DurationType         | The member of DurationType Type in the List<DurationType> Type is used to store information related to the duration of a specific event or activity within the electronic health record (EHR) software. It includes the description of the event, the start and end dates and times, the duration value and units, and any additional codes or modifiers associated with the duration. |
| Procedure..Duration..Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type in the DurationType Type is used to provide a textual description or label for a coded value or object attribute within the duration information. It helps to provide additional context or information about the duration being described.  |
| Procedure..Duration..DateTime    | List<DateTimeType>   | The DateTime member of the List<DateTimeType> Type is used to capture the date and time information  |

|   |                      |   |
|---|----------------------|---|
|   |                      | related to a specific event, such as the start or end time of a procedure or test.  |
| Procedure..Duration..Value                    | String               | The Value member of the String Type in the DurationType represents the actual value of the duration. It is used to store the numerical value of the duration in a string format, such as "2" for 2 hours or "5.5" for 5.5 days.   |
| Procedure..Duration..Units                    | RateTypeUnits        | The Units member of the RateTypeUnits Type in the DurationType Type is used to represent the unit of measurement for a rate or duration.  |
| Procedure..Duration..Code                     | List<CodeType>       | The Code member of the List<CodeType> Type within the DurationType Type is used to store a code associated with a specific value or concept within the duration.  |
| Procedure..Duration..DurationSequencePosition | String               | The DurationSequencePosition member of type String in the DurationType represents the position of the duration sequence within a series of durations. It is used to indicate the order or sequence in which a particular duration occurs in relation to other durations in a given context within the EHR software. |
| Procedure..Duration..VariableDurationModifier | CodedDescriptionType | The VariableDurationModifier  |

|                                     |                            |  |
|-------------------------------------|----------------------------|--|
| r                                   |                            | member of the CodedDescriptionType Type in the DurationType Type is used to provide additional information or modifiers related to the variable duration of an event or condition recorded in the electronic health record (EHR) software. |
| Procedure..Indications              | List<IndicationType>       | The Indications member of the List<IndicationType> Type in the ProcedureType Type is used to describe any relevant indications or reasons for performing the procedure.  |
| Procedure..Indications.             | IndicationType             | The member of the IndicationType Type in the List<IndicationType> Type is used to store information about an indication or reason for a medical procedure or test.   |
| Procedure..Indications..PRNFlag     | CodedDescriptionType       | The PRNFlag member of the CodedDescriptionType Type is used to indicate if a medication or intervention should be administered on an as-needed basis (PRN stands for "pro re nata" which means "as the circumstance arises" in Latin).     |
| Procedure..Indications..Description | List<CodedDescriptionType> | The Description member of List<CodedDescriptionType> Type in the IndicationType type is used to provide a textual description or explanation of the  |

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|---|-------------------|---|
|   |                   | indication.   |
| Procedure..Indications..Problem                     | List<ProblemType> | The Problem member of the List<ProblemType> Type in the IndicationType Type is used to represent a health problem or diagnosis associated with a specific indication.   |
| Procedure..Indications..Problem.                    | ProblemType       | The member of the ProblemType type, which is a member of the List<ProblemType> type, is used to represent a specific problem or health issue that a patient may have. It stores information such as the type of problem, its description, status, sources of information, and any associated episodes or health status. |
| Procedure..Indications..Problem..Episodes           | EpisodesType      | The Episodes member of EpisodesType Type in the ProblemType Type is used to store information about specific episodes related to a problem or condition in the patient's electronic health record (EHR).  |
| Procedure..Indications..Problem..Episodes.Number    | String            | The Number member of type String in the EpisodesType is used to represent a numerical value associated with an episode.   |
| Procedure..Indications..Problem..Episodes.Frequency | MeasureType       | The Frequency member of the MeasureType Type in the EpisodesType Type is used to specify the frequency or regularity of episodes in the electronic  |

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|---|-------------------|--|
|   |                   | health records (EHR) software.   |
| Procedure..Indications..Problem..Episodes.Episode           | List<EpisodeType> | The Episode member of the List<EpisodeType> Type in the EpisodesType Type is used to represent a specific episode or occurrence within a patient's medical history. It contains information such as the duration, date and time, IDs, type, description, and status of the episode. It may also include additional details such as the source of the information, internal CCR links, reference IDs, comments, and signatures. |
| Procedure..Indications..Problem..Episodes.Episode.          | EpisodeType       | The member of EpisodeType Type, which is a member of the List<EpisodeType> Type, represents a duration of time associated with an episode of care or treatment in the Electronic Health Record (EHR) software.   |
| Procedure..Indications..Problem..Episodes.Episode..Duration | DurationType      | The Duration member of the DurationType Type is used to store the duration of an episode or event in the electronic health record (EHR). It contains information such as the duration value, units of measurement, and description of the duration. This allows healthcare providers to track and document the length of a specific episode or event   |

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|--|--------------------|---|
|  |                    | for clinical and analytical purposes.   |
| Procedure..Indications..Problem..Episodes.Episode..CCRDataObjectID | String             | The CCRDataObjectID member of the StringType in the EpisodeType Type is a unique identifier for the episode of care in the EHR system. It is used to link related data and events within the episode, allowing for easy identification and retrieval of specific episodes for analysis or reference purposes.   |
| Procedure..Indications..Problem..Episodes.Episode..DateTime        | List<DateTimeType> | The DateTime member of List<DateTimeType> in the EpisodeType Type is used to store various date and time information related to an episode or event in a patient's medical record. It can include the exact date and time, age at the time, approximate date and time, and date and time ranges. This information helps to accurately document and track the timing of the episode or event in the patient's medical history. |
| Procedure..Indications..Problem..Episodes.Episode..IDs             | List<IDType>       | The IDs member of the List<IDType> type in the EpisodeType type is used to store various identification information related to the specific episode. This can include identifiers such as episode IDs, patient IDs, provider IDs, or any other relevant identification information associated with  |



|  |                      |   |
|--|----------------------|---|
|  |                      | the episode.  |
| Procedure..Indications..Problem..Episodes.Episode..IDs.        | IDType               | The IDType member in the List<IDType> Type is used to store identification information associated with a specific result in the EHR system. This information may include the date and time of the identification, the type of identification, the ID value itself, the entity that issued the identification, and any related sources or links. |
| Procedure..Indications..Problem..Episodes.Episode..Type        | CodedDescriptionType | The Type member of the CodedDescriptionType type in the EpisodeType type is used to specify the type or category of the episode.  |
| Procedure..Indications..Problem..Episodes.Episode..Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type is used to provide a text description of an episode or result in an Electronic Health Record (EHR) system. It serves to provide additional information or context about the episode or result.  |
| Procedure..Indications..Problem..Episodes.Episode..Status      | CodedDescriptionType | The Status member of the CodedDescriptionType type in the EpisodeType type is used to indicate the current status or condition of the episode.  |
| Procedure..Indications..Problem..Episodes.Episode..Source      | List<SourceType>     | The Source member of the List<SourceType> Type in the EpisodeType Type is used to store information about the source or origin  |

|  |                       |  |
|--|-----------------------|--|
|  |                       | of the episode data. It may include details such as the description of the source, actor references, date and time of the episode data, reference IDs, and comment IDs.  |
| Procedure..Indications..Problem..Episodes.Episode..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member in the EpisodeType type is used to store internal links within a CCR (Continuity of Care Record) document. It includes information about the link ID, the relationship of the link to other elements in the document, and the source of the link.       |
| Procedure..Indications..Problem..Episodes.Episode..ReferenceID     | List<String>          | The ReferenceID member of List<String> Type in the EpisodeType Type is used to store a list of reference IDs associated with the episode. These reference IDs could be used to link the episode to other related records or data within the electronic health record (EHR) system. |
| Procedure..Indications..Problem..Episodes.Episode..CommentID       | List<String>          | The CommentID member of List<String> Type in the EpisodeType Type is used to store a collection of unique identifiers for comments related to the episode.   |
| Procedure..Indications..Problem..Episodes.Episode..Signature       | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> type is used to store information related to electronic signatures   |

|   |                       |  |
|---|-----------------------|--|
|   |                       | associated with the episode.   |
| Procedure..Indications..Problem..Episodes.Source          | List<SourceType>      | The Source member of the List<SourceType> Type in the EpisodesType Type is used to specify the source of the episodes data recorded in the EHR software. It provides information about the description of the source and the actor(s) responsible for the episodes, along with the date and time of the recording. |
| Procedure..Indications..Problem..Episodes.InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the List<InternalCCRLink> Type within the EpisodesType Type is used to store information about internal links within the EHR software.   |
| Procedure..Indications..Problem..Episodes.ReferenceID     | List<String>          | The ReferenceID member of List<String> Type in the EpisodesType Type is used to store reference IDs associated with the episodes. These reference IDs could be used to link the episodes to external systems or documents, providing additional information or context about the episodes.                         |
| Procedure..Indications..Problem..Episodes.CommentID       | List<String>          | The CommentID member of List<String> Type in the EpisodesType Type is used to store a list of comment identifiers associated with the episodes. These  |

|   |                         |   |
|---|-------------------------|---|
|   |                         | comment identifiers may be used to link additional information or notes about the episodes within the EHR software.   |
| Procedure..Indications..Problem..Episodes.Signature       | List<IDTypeSignature>   | The Signature member of the List<IDTypeSignature> type is used to store the signature ID associated with an episode in an electronic health record (EHR) system.  |
| Procedure..Indications..Problem..HealthStatus             | CurrentHealthStatusType | The HealthStatus member of CurrentHealthStatusType Type is used to store the current health status of the patient. This includes information such as any ongoing medical conditions, symptoms, or general health conditions that the patient is experiencing at the time of the record. |
| Procedure..Indications..Problem..HealthStatus.DateTime    | List<DateTimeType>      | The DateTime member of the List<DateTimeType> Type in the CurrentHealthStatusType Type is used to store information related to the date and time of a specific event or occurrence related to the current health status of a patient.   |
| Procedure..Indications..Problem..HealthStatus.Description | CodedDescriptionType    | The Description member of the CodedDescriptionType Type is used to provide a text description of the current health status of a patient in an electronic health record (EHR) system.  |

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|---|-----------------------|---|
| Procedure..Indications..Problem..HealthStatus.<br>CauseOfDeath    | String                | The CauseOfDeath member of String Type in the CurrentHealthStatusType Type is used to store the cause of death of a patient.  |
| Procedure..Indications..Problem..HealthStatus.<br>Source          | List<SourceType>      | The Source member of the List<SourceType> Type in the CurrentHealthStatusType Type is used to indicate the source or origin of the current health status information, such as the healthcare provider or system that recorded or provided the data. |
| Procedure..Indications..Problem..HealthStatus.<br>InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the List<InternalCCRLink> type in the CurrentHealthStatusType is used to store links to internal CCR documents or records related to the current health status.   |
| Procedure..Indications..Problem..HealthStatus.<br>ReferenceID     | List<String>          | The ReferenceID member of the List<String> Type in the CurrentHealthStatusType is used to store a unique identifier or reference to another related record or data element within the EHR software.   |
| Procedure..Indications..Problem..HealthStatus.<br>CommentID       | List<String>          | The CommentID member of the List<String> Type in the CurrentHealthStatusType Type is used to store any additional comments or notes related to the current  |

|  |                       |   |
|--|-----------------------|---|
|  |                       | health status of a patient.   |
| Procedure..Indications..Problem..HealthStatus.<br>Signature        | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> type is used to store information related to signatures associated with the CurrentHealthStatusType.  |
| Procedure..Indications..Problem..PatientKnowl<br>edge              | PatientKnowledgeType  | The PatientKnowledge member of the PatientKnowledgeType type is used to indicate the patient's awareness or knowledge about their own health condition.   |
| Procedure..Indications..Problem..PatientKnowl<br>edge.PatientAware | String                | The PatientAware member of type String in the PatientKnowledgeType is used to store information about the patient's awareness or understanding of a particular medical condition or treatment.  |
| Procedure..Indications..Problem..PatientKnowl<br>edge.Description  | CodedDescriptionType  | The Description member of the CodedDescriptionType type in the PatientKnowledgeType type is used to provide a textual description or explanation associated with a particular concept or code. It provides additional information or context about the coded description. |
| Procedure..Indications..Problem..PatientKnowl<br>edge.Source       | List<SourceType>      | The Source member of the List<SourceType> type within the PatientKnowledgeType type is used to store information  |

|   |                       |  |
|---|-----------------------|--|
|   |                       | about the source or origin of the patient knowledge data. It may include details such as the description of the source, the actor or entity associated with the source, the date and time of the data's origin, and any reference IDs or comments related to the source.   |
| Procedure..Indications..Problem..PatientKnowledge.InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the List<InternalCCRLink> Type in the PatientKnowledgeType Type is used to store internal links within the Electronic Health Record (EHR) system. This member contains information such as the link ID, link relationships, and the source of the link. It is used to establish connections between different pieces of patient knowledge within the EHR system. |
| Procedure..Indications..Problem..PatientKnowledge.ReferenceID     | List<String>          | The ReferenceID member of the List<String> Type in the PatientKnowledgeType Type is used to store a list of reference IDs associated with the patient's knowledge. These reference IDs could be used to link the knowledge to external resources or documents for further information or context.  |
| Procedure..Indications..Problem..PatientKnowledge.CommentID       | List<String>          | The CommentID member of the List<String> Type in the PatientKnowledgeType  |

|   |                       |  |
|---|-----------------------|--|
|   |                       | Type is used to store unique identifiers or references to comments related to patient knowledge.   |
| Procedure..Indications..Problem..PatientKnowledge.Signature | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> Type in the PatientKnowledgeType is used to store information related to electronic signatures, such as unique signature IDs, for the patient knowledge data.                              |
| Procedure..Indications..Problem..CCRDDataObjectID           | String                | The CCRDataObjectID member of String Type in the ProblemType Type is used to uniquely identify the ProblemType object within an EHR software system.   |
| Procedure..Indications..Problem..DateTime                   | List<DateTimeType>    | The DateTime member of List<DateTimeType> Type is used to store various date and time information related to a problem. It can include the exact date and time, approximate date and time, age of the problem, and a range of date and time. |
| Procedure..Indications..Problem..IDs                        | List<IDType>          | The IDs member of the List<IDType> type in the ProblemType type is used to store various identification information related to a specific problem or condition. This can include unique identifiers, such as medical record numbers or       |



|  |                      |   |
|--|----------------------|---|
|  |                      | encounter IDs, as well as the entities that issued the identifiers. It may also contain timestamps indicating when the IDs were generated or modified.  |
| Procedure..Indications..Problem..Type        | CodedDescriptionType | The Type member of CodedDescriptionType is used to specify the type or category of a problem or condition in the ProblemType Type.  |
| Procedure..Indications..Problem..Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type in the ProblemType Type is used to store a textual description of a problem or condition.   |
| Procedure..Indications..Problem..Status      | CodedDescriptionType | The Status member of the CodedDescriptionType in the ProblemType type is used to indicate the current status or condition of the problem described in the EHR software.   |
| Procedure..Indications..Problem..Source      | List<SourceType>     | The Source member of the List<SourceType> Type in the ProblemType Type represents the source or origin of the problem or issue documented in the EHR system. It provides information about where the problem data was obtained from, such as the source description, actor references associated with the source, the date and time of the source, and any reference or comment IDs |

|  |                       |   |
|--|-----------------------|---|
|  |                       | related to the source.  |
| Procedure..Indications..Problem..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the List<InternalCCRLink> type in the ProblemType represents a link or reference to another CCR (Continuity of Care Record) within the EHR (Electronic Health Record) system. It provides information about the link ID, the relationship between the linked CCR and the current problem, and the source of the link. |
| Procedure..Indications..Problem..ReferenceID     | List<String>          | The ReferenceID member of List<String> Type in the ProblemType Type is used to store references or identifiers related to the specific problem or condition mentioned in the problem type. It is used to link the problem or condition to external resources or systems for further reference or analysis.  |
| Procedure..Indications..Problem..CommentID       | List<String>          | The CommentID member of the List<String> Type in the ProblemType Type is used to store any comments or additional information related to the problem or condition described in the ProblemType.   |
| Procedure..Indications..Problem..Signature       | List<IDTypeSignature> | The Signature member of List<IDTypeSignature> is used to store information related to the electronic signature or authorization   |

|   |  |   |
|---|--|---|
|   |  | of the ProblemType data.  |
| Procedure..Indications..PhysiologicalParameter                            | List<IndicationTypePhysiologicalParameter> | The PhysiologicalParameter member of List<IndicationTypePhysiologicalParameter> represents a physiological parameter associated with an indication. It stores information about the sequence position, variable parameter modifier, value, units, and code for the parameter, allowing for the recording and tracking of specific physiological measurements related to the indication. This data can be used for monitoring and analysis purposes within the EHR software. |
| Procedure..Indications..PhysiologicalParameter.                           | IndicationTypePhysiologicalParameter       | The IndicationTypePhysiologicalParameter member of the IndicationTypePhysiologicalParameter type is used to store information about a specific physiological parameter observed during a medical indication.  |
| Procedure..Indications..PhysiologicalParameter..ParameterSequencePosition | String                                     | The ParameterSequencePosition member of type String in the IndicationTypePhysiologicalParameter type is used to indicate the position or order of the physiological parameter in a sequence or list.  |
| Procedure..Indications..PhysiologicalParameter                            | CodedDescriptionType                       | The VariableParameterModifier   |

|   |                  |  |
|---|------------------|--|
| ..VariableParameterModifier                           |                  | member of the CodedDescriptionType is used to provide additional information or modifiers related to the physiological parameter being described in the IndicationTypePhysiologicalParameter. It includes details such as qualifiers, modifiers, or attributes that further specify or describe the parameter. |
| Procedure..Indications..PhysiologicalParameter..Value | String           | The Value member of StringType in the IndicationTypePhysiologicalParameter Type is used to store the actual numerical value of a physiological parameter being measured, such as blood pressure or heart rate.   |
| Procedure..Indications..PhysiologicalParameter..Units | MeasureTypeUnits | The Units member of the MeasureTypeUnits Type is used to specify the units of measurement for a physiological parameter in the IndicationTypePhysiologicalParameter Type.  |
| Procedure..Indications..PhysiologicalParameter..Code  | List<CodeType>   | The Code member of List<CodeType> Type in the IndicationTypePhysiologicalParameter Type is used to store the specific code value associated with a physiological parameter. It represents a unique identifier for the parameter, such as a numeric or alphanumeric code, and includes information about        |

|   |                       |   |
|---|-----------------------|---|
|   |                       | the coding system and version used. This code is used to classify and identify the physiological parameter in a standardized way within the EHR software.   |
| Procedure..Indications..Source          | List<SourceType>      | The Source member of the List<SourceType> Type in the IndicationType Type is used to specify the source or origin of the indication data. It could contain information about the entity or system that provided or generated the indication data.                 |
| Procedure..Indications..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the List<InternalCCRLink> type in the IndicationType type is used to store information about internal links within the EHR system. These links may connect the indication to other related data or documents within the EHR system. |
| Procedure..Indications..ReferenceID     | List<String>          | The ReferenceID member of the List<String> Type in the IndicationType Type is used to store references or identifiers that are associated with the indication, such as unique IDs or codes assigned to the indication in the EHR software.                        |
| Procedure..Indications..CommentID       | List<String>          | The CommentID member of the List<String> Type in the IndicationType Type is used to store comments or   |

|  |                            |  |
|--|----------------------------|--|
|  |                            | additional information related to the indication.  |
| Procedure..Indications..Signature                  | List<IDTypeSignature>      | The Signature member of List<IDTypeSignature> in the IndicationType type is used to store the digital signatures associated with the indication.   |
| Procedure..Indications..IndicationSequencePosition | String                     | The IndicationSequencePosition member of type String within the IndicationType is used to indicate the position or order of the indication within a list or sequence.  |
| Procedure..Indications..MultipleIndicationModifier | CodedDescriptionType       | The MultipleIndicationModifier member of the CodedDescriptionType is used as a modifier or qualifier to provide additional information or context about multiple indications associated with a medical condition or procedure. |
| Procedure..Instructions                            | List<CodedDescriptionType> | The Instructions member of the List<CodedDescriptionType> Type within the ProcedureType Type is used to store textual instructions or guidance related to a medical procedure.   |
| Procedure..Consent                                 | CCRCodedDataObjectType     | The Consent member of CCRCodedDataObjectType Type in the ProcedureType Type is used to store   |

|                                    |                    |   |
|------------------------------------|--------------------|---|
|                                    |                    | information related to the patient's consent for a specific medical procedure or treatment.   |
| Procedure..Consent.CCRDataObjectID | String             | The CCRDataObjectID member of type String is a unique identifier that represents the data object within the EHR software. It is used for tracking and referencing the specific CCR data object within the system.   |
| Procedure..Consent.DateTime        | List<DateTimeType> | The DateTime member in the List<DateTimeType> Type is used to store various date and time information related to the CCRDataObjectType. This information could include the exact date and time of when the data was recorded, an approximate date and time if the exact value is unknown, and a range of dates and times if the value has a range of possible values. |
| Procedure..Consent.IDs             | List<IDType>       | The "IDs" member of the "List<IDType>" type represents a collection of identification information associated with a specific data object in the electronic health record (EHR) system. It is used to store various types of unique identifiers such as social security number, medical record number, patient ID, or other identification codes for the               |

|                                    |                       |   |
|------------------------------------|-----------------------|---|
|                                    |                       | data object.  |
| Procedure..Consent.Type            | CodedDescriptionType  | The Type member of the CodedDescriptionType Type in the CCR CodedDataObjectType Type is used to specify the type or category of the coded description.  |
| Procedure..Consent.Description     | CodedDescriptionType  | The Description member of the CodedDescriptionType type is used to store descriptive text associated with a particular code or value.   |
| Procedure..Consent.Status          | CodedDescriptionType  | The Status member in the CodedDescriptionType Type is used to indicate the current status or condition of the associated data object in the EHR software.   |
| Procedure..Consent.Source          | List<SourceType>      | The Source member of the List<SourceType> type within CCR CodedDataObjectType is used to provide information about the source or origin of the data. It includes details such as the description of the source, the actor or entity responsible for the data, the date and time of the data, and any reference or comment IDs associated with the source. |
| Procedure..Consent.InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of List<InternalCCRLink> Type is used to represent the link between different sections   |



|                                |                       |  |
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|                                |                       | <p>or components within a CCR (Continuity of Care Record) document. It contains information about the ID of the link, the relationship of the link, and the source of the link within the CCR document. It is used to establish connections and provide contextual information between different parts of the CCR document for better organization and navigation.</p> |
| Procedure..Consent.ReferenceID | List<String>          | <p>The ReferenceID member of the List&lt;String&gt; Type in the CCR CodedDataObjectType is used to store reference identifiers associated with the coded data object. These reference identifiers could be used to link the data object to other related objects or documents within the EHR software system.</p>  |
| Procedure..Consent.CommentID   | List<String>          | <p>The CommentID member of the List&lt;String&gt; Type in the CCR CodedDataObjectType is used to store unique identifiers or references to comments associated with the coded data object. These comments could provide additional context or information related to the specific data object.</p>   |
| Procedure..Consent.Signature   | List<IDTypeSignature> | <p>The Signature member of the List&lt;IDTypeSignature&gt;</p>   |

|                              |                                    |   |
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|                              |                                    | type is used to store the multiple signature IDs associated with a specific data object in the electronic health record (EHR) system.   |
| Procedure..Products          | List<StructuredProductType>        | The Products member of the List<StructuredProductType> type in the ProcedureType type is used to store information about the products or medications associated with a specific medical procedure.  |
| Procedure..Products.         | StructuredProductType              | The member of StructuredProductType type, which is a member of the List<StructuredProductType> type, represents a structured product or medication within the electronic health record (EHR) system. It includes information such as the product details, quantity, directions, patient instructions, fulfillment instructions, refills, series number, consent, reaction, fulfillment history, and other relevant data related to the medication or product. |
| Procedure..Products..Product | List<StructuredProductTypeProduct> | The Product member of List<StructuredProductTypeProduct> Type is used to store information about a medication or medical product. It may contain details such as the product  |

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|---|--|---|
|   |  | name, brand name, strength, form, concentration, size, manufacturer, and unique identifiers for the product.  |
| Procedure..Products..Product.             | StructuredProductTypeProduct               | The member "ProductName" in the "StructuredProductTypeProduct" type is used to store the name of a product within the EHR software.   |
| Procedure..Products..Product..ProductName | CodedDescriptionType                       | The ProductName member of the CodedDescriptionType type is used to store the name of a product within a structured product, such as a medication or medical device.   |
| Procedure..Products..Product..BrandName   | CodedDescriptionType                       | The BrandName member of the CodedDescriptionType Type in the StructuredProductTypeProduct is used to store the brand name of a product or medication.   |
| Procedure..Products..Product..Strength    | List<StructuredProductTypeProductStrength> | The Strength member of the List<StructuredProductTypeProductStrength> type in the StructuredProductTypeProduct type is used to represent the strength of a medication or product. It may store information such as the dosage strength, concentration, or potency of the product. |

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| Procedure..Products..Product..Strength.                          | StructuredProductTypeProductStrength | The member "StrengthSequencePosition" in the StructuredProductTypeProductStrength type is used to indicate the position or sequencing of a particular strength within a structured product.  |
| Procedure..Products..Product..Strength..StrengthSequencePosition | String                               | The StrengthSequencePosition member of String Type in the StructuredProductTypeProductStrength Type is used to indicate the position or order of the strength within a list or sequence of strengths associated with a structured product. |
| Procedure..Products..Product..Strength..VariableStrengthModifier | CodedDescriptionType                 | The VariableStrengthModifier member of the CodedDescriptionType Type in the StructuredProductTypeProductStrength Type is used to indicate any modifications or variations in the strength of a structured product.                         |
| Procedure..Products..Product..Strength..Value                    | String                               | The Value member of String Type in the StructuredProductTypeProductStrength is used to store the value of the product strength in a string format.   |
| Procedure..Products..Product..Strength..Units                    | MeasureTypeUnits                     | The Units member of MeasureTypeUnits Type is used to define the unit of measurement for a specific value in the context of   |

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|  |  | healthcare, such as weight in pounds or height in inches.  |
| Procedure..Products..Product..Strength..Code             | List<CodeType>                         | The Code member of the List<CodeType> type is a string value that represents a specific code or identifier for a product strength. It is used to identify and classify the strength of a structured product within an electronic health record system.                                     |
| Procedure..Products..Product..Form                       | List<StructuredProductTypeProductForm> | The Form member of the List<StructuredProductTypeProductForm> type is used to describe the physical form or presentation of a product within an Electronic Health Record (EHR) software. It may contain information such as the shape, state, or other physical attributes of the product. |
| Procedure..Products..Product..Form.                      | StructuredProductTypeProductForm       | The member "FormSequencePosition" of the StructuredProductTypeProductForm type is used to indicate the sequence position of a specific form within a structured product.   |
| Procedure..Products..Product..Form..FormSequencePosition | String                                 | The FormSequencePosition member of String Type in the StructuredProductTypeProductForm Type is used to indicate the position or sequence of a particular form within a structured  |

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|  |  | product.  |
| Procedure..Products..Product..Form..MultipleFormModifier | CodedDescriptionType                       | The MultipleFormModifier member of the CodedDescriptionType Type is used to store a modifier or additional attribute that is specific to the product form of a structured product.  |
| Procedure..Products..Product..Form..Text                 | String                                     | The "Text" member of the String Type is used to store textual information related to the product form of a structured product in an electronic health record (EHR) system. It could contain details such as the name or description of the form, providing additional information about the product in a human-readable format. |
| Procedure..Products..Product..Form..ObjectAttribute      | List<CodedDescriptionType ObjectAttribute> | The ObjectAttribute member of the List<CodedDescriptionType ObjectAttribute> Type in the StructuredProductTypeProductForm is used to define additional attributes or properties associated with an object or product form in the EHR software.  |
| Procedure..Products..Product..Form..Code                 | List<CodeType>                             | The Code member of List<CodeType> in the StructuredProductTypeProductForm type is used to represent a specific code value associated with a particular product form. It contains information such   |

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|  |   | as the code value itself, the coding system used, and the version of the coding system.   |
| Procedure..Products..Product..Concentration                                | List<StructuredProductTypeProductConcentration> | The Concentration member of the List<StructuredProductTypeProductConcentration> type is used to store information about the concentration of a particular product within the structured product.  |
| Procedure..Products..Product..Concentration.                               | StructuredProductTypeProductConcentration       | The member "ConcentrationSequencePosition" in the StructuredProductTypeProductConcentration type represents the position of a specific concentration sequence within a list of concentrations. It is used to organize and differentiate different concentrations of a product in a structured format within the EHR software.               |
| Procedure..Products..Product..Concentration..ConcentrationSequencePosition | String  | The ConcentrationSequencePosition member of String Type in the StructuredProductTypeProductConcentration Type represents the position of a concentration value within a sequence of concentrations. It is used to indicate the relative order or position of a specific concentration value within a series of concentrations, such as in a |

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|  |                      | lab test result or medication dosage.   |
| Procedure..Products..Product..Concentration..VariableConcentrationModifier | CodedDescriptionType | The VariableConcentrationModifier member of the CodedDescriptionType Type appears to be a modifier or qualifier for the concentration value of a structured product. It is used to provide additional information about the concentration value, such as whether it is an average, minimum, or maximum concentration, or if it is a variable concentration. |
| Procedure..Products..Product..Concentration..Value                         | String               | The Value member of StringType in the StructuredProductTypeProductConcentration Type is used to store the numeric value of the concentration of a product.  |
| Procedure..Products..Product..Concentration..Units                         | MeasureTypeUnits     | The Units member of the MeasureTypeUnits Type is used to specify the unit of measurement for a particular value in the context of product concentration.  |
| Procedure..Products..Product..Concentration..Code                          | List<CodeType>       | The Code member of the List<CodeType> type in the StructuredProductTypeProductConcentration type is used to store a specific code value that represents a particular concept or identifier. This code value is typically associated with a specific coding system or  |



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|  |   | terminology, such as SNOMED CT or LOINC, and may also have a version specified. Its purpose is to provide standardized and interoperable representation of the concept or identifier within the EHR software.  |
| Procedure..Products..Product..Size             | List<StructuredProductTypeProductSize>          | The Size member of the List<StructuredProductTypeProductSize> type is used to store information related to the size of a product, such as medication or medical device, within an EHR software. It may include dimensions, sequence position, modifiers, text, attributes, and codes related to the size of the product. |
| Procedure..Products..Product..Size.            | StructuredProductTypeProductSize                | The member of the StructuredProductTypeProductSize Type, which is a member of the List<StructuredProductTypeProductSize> Type, is used to store information about the size and dimensions of a product within an electronic health record (EHR) system.  |
| Procedure..Products..Product..Size..Dimensions | List<StructuredProductTypeProductSizeDimension> | The Dimensions member of the List<StructuredProductTypeProductSizeDimension> type represents the various dimensions or measurements associated with a product size. It includes information such   |

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|   |   | as the description of the dimension, its corresponding value, the units of measurement, and any additional codes or attributes related to the dimension. This information is used to accurately describe the physical characteristics or measurements of a product within the EHR system. |
| Procedure..Products..Product..Size..Dimensions.             | StructuredProductTypeProductSizeDimension | The member "Description" of the StructuredProductTypeProductSizeDimension type is used to describe the size dimension of a product in an electronic health record.  |
| Procedure..Products..Product..Size..Dimensions..Description | CodedDescriptionType                      | The Description member of the CodedDescriptionType Type in the StructuredProductTypeProductSizeDimension Type is used to provide a text description or label for a specific attribute or characteristic of a structured product's size dimension.   |
| Procedure..Products..Product..Size..Dimensions..Value       | String                                    | The Value member of String Type in the StructuredProductTypeProductSizeDimension Type is used to store the numerical value of the product size dimension.   |
| Procedure..Products..Product..Size..Dimensions..Units       | MeasureTypeUnits                          | The Units member of the MeasureTypeUnits Type is used to represent the unit of measurement for a  |

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|--|---|--|
|  |   | specific value.  |
| Procedure..Products..Product..Size..Dimensions..Code     | List<CodeType>                            | The Code member of the List<CodeType> type is used to represent a specific code value associated with a particular coding system and version. It is used to provide standardized identification and classification for the product size dimension in the EHR software. |
| Procedure..Products..Product..Size..SizeSequencePosition | String                                    | The SizeSequencePosition member of type String in the StructuredProductTypeProductSize is used to indicate the position or order of the product size within a sequence.  |
| Procedure..Products..Product..Size..VariableSizeModifier | CodedDescriptionType                      | The VariableSizeModifier member of the CodedDescriptionType Type in the StructuredProductTypeProductSize Type is used to specify any additional information or modifiers related to the size of a structured product.  |
| Procedure..Products..Product..Size..Text                 | String                                    | The Text member of the String Type in the StructuredProductTypeProductSize Type is used to store text or descriptive information related to the size of a product.   |
| Procedure..Products..Product..Size..ObjectAttribute      | List<CodedDescriptionTypeObjectAttribute> | The ObjectAttribute member in the List<CodedDescriptionType  |

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|---|--------------------|--|
|   |                    | ObjectAttribute> type is used to store additional attributes or properties associated with a structured product's size.  |
| Procedure..Products..Product..Size..Code              | List<CodeType>     | The Code member of the List<CodeType> Type in the StructuredProductTypeProductSize Type is used to store a specific value that represents a code for a particular concept or element within the EHR software.  |
| Procedure..Products..Product..Manufacturer            | ActorReferenceType | The Manufacturer member of the ActorReferenceType Type is used to specify the manufacturer of a structured product in the context of an EHR software.  |
| Procedure..Products..Product..IDs                     | List<IDType>       | The IDs member of List<IDType> in the StructuredProductTypeProduct type is used to store various identification attributes associated with a product in the electronic health record (EHR) software. These attributes may include unique identifiers, types of identifiers, issue dates, issuers, and sources. |
| Procedure..Products..Product..ProductSequencePosition | String             | The ProductSequencePosition member of the StructuredProductTypeProduct Type is a string that represents the position or order of a product within a sequence or list. It is used   |

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|   |                      | to differentiate and organize multiple products within a structured product type, allowing for easier identification and manipulation of specific products within the EHR software.   |
| Procedure..Products..Product..MultipleProductModifier   | CodedDescriptionType | The MultipleProductModifier member of the StructuredProductTypeProduct Type in the CodedDescriptionType Type is used to indicate any modification or variation associated with multiple products within a structured product. |
| Procedure..Products..Quantity                           | List<QuantityType>   | The Quantity member in the List<QuantityType> type is used to store the measurement value and units for a specific quantity associated with a structured product.   |
| Procedure..Products..Quantity.                          | QuantityType         | The member of the QuantityType type is used to store information about a quantity or measurement associated with a result or test.  |
| Procedure..Products..Quantity..QuantitySequencePosition | String               | The QuantitySequencePosition member of String type in the QuantityType is used to specify the position or order of the quantity value within a sequence of related quantity values.   |

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|---|----------------------|--|
| Procedure..Products..Quantity..VariableQuantityModifier | CodedDescriptionType | The VariableQuantityModifier member of the CodedDescriptionType type in the QuantityType type is a text field that provides additional information or modifiers for the variable quantity value. It is used to describe any specific attributes or characteristics of the variable quantity measurement in the context of electronic health record software. |
| Procedure..Products..Quantity..Value                    | String               | The Value member of the String Type in the QuantityType is used to store the numerical value of a quantity.  |
| Procedure..Products..Quantity..Units                    | MeasureTypeUnits     | The Units member of the MeasureTypeUnits Type is used to specify the unit of measurement for a quantitative value, such as a measurement result or a quantity. It provides a standardized representation of the unit, often using standardized codes, to ensure consistency and interoperability across different healthcare systems and software.           |
| Procedure..Products..Quantity..Code                     | List<CodeType>       | The Code member of the List<CodeType> type is used to store a specific code value that represents a coded description or identifier.   |

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| Procedure..Products..Directions                | List<Direction>      | The Directions member of the List<Direction> type is used to provide specific instructions for administering a medication or treatment. It includes information such as the dosage, delivery method, route of administration, timing, frequency, duration, and any restrictions or indications associated with the direction. |
| Procedure..Products..Directions.               | Direction            | The member of the Direction Type, which is a member of the List<Direction> Type, appears to represent the route or method of administration for a medication or treatment.  |
| Procedure..Products..Directions..Description   | CodedDescriptionType | The Description member of the CodedDescriptionType Type in the Direction Type is used to store a textual description or name of a particular code or object attribute within the healthcare software system.  |
| Procedure..Products..Directions..DoseIndicator | CodedDescriptionType | The DoseIndicator member of the CodedDescriptionType Type in the Direction Type is used to indicate the dosage indicator for a medication or treatment. It provides information about the specific dose measurement or unit associated with the medication or treatment.  |

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| Procedure..Products..Directions..DeliveryMethod | CodedDescriptionType | The DeliveryMethod member of the CodedDescriptionType Type in the Direction Type is used to describe the method by which a medication or treatment is administered to a patient.   |
| Procedure..Products..Directions..Dose           | List<DirectionDose>  | The Dose member of the List<DirectionDose> Type is used to specify the dose of a medication or treatment administered to a patient. It includes information such as the dose value, units of measurement, and any specific modifiers or codes associated with the dose.          |
| Procedure..Products..Directions..Dose.          | DirectionDose        | The member of DirectionDose Type represents the dosage information for a specific direction or instruction related to a medical procedure or treatment. It includes details such as the dose value, units of measurement, and any modifiers or codes associated with the dosage. |
| Procedure..Products..Directions..Dose..Rate     | List<RateType>       | The Rate member of List<RateType> Type in the DirectionDose Type is used to specify the rate or speed at which a dose of medication or treatment should be administered.   |
| Procedure..Products..Directions..Dose..Rate.    | RateType             | The member of the RateType type within the List<RateType> type is used to store information about  |



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|--|----------------------|---|
|  |                      | a rate or measurement value related to a specific procedure, test, or substance mentioned in the healthcare record. It includes details such as the description of the rate, the value of the rate, its units of measurement, any applicable codes, and possible modifiers. |
| Procedure..Products..Directions..Dose..Rate..Description | CodedDescriptionType | The Description member of the CodedDescriptionType in the RateType type is used to store a text description of a coded element or attribute.  |
| Procedure..Products..Directions..Dose..Rate..Value       | String               | The Value member of StringType in the RateType Type is used to store a numerical value associated with a rate or measurement.   |
| Procedure..Products..Directions..Dose..Rate..Units       | RateTypeUnits        | The Units member of the RateTypeUnits Type is used to represent the measurement units associated with a rate value in the context of electronic health record (EHR) software.   |
| Procedure..Products..Directions..Dose..Rate..Code        | List<CodeType>       | The Code member of the List<CodeType> type is used to store the code value that identifies a specific concept or item in a coding system. It is used to represent standardized codes for various elements such as diagnoses, procedures, medications, and laboratory        |

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|---|----------------------|---|
|   |                      | tests in the EHR software.  |
| Procedure..Products..Directions..Dose..Rate..RateSequencePosition | String               | The RateSequencePosition member of type String in the RateType represents the position or order of the rate in a sequence of rates. It is used to indicate the order in which different rates are applied or evaluated within a specific context or calculation in the EHR software.                    |
| Procedure..Products..Directions..Dose..Rate..VariableRateModifier | CodedDescriptionType | The VariableRateModifier member of the CodedDescriptionType Type in the RateType Type is used to capture any additional modifiers or factors that can affect the variable rate value in the context of the specific rate information being recorded in the EHR software.                                |
| Procedure..Products..Directions..Dose..DoseSequencePosition       | String               | The DoseSequencePosition member of type String in the DirectionDose type is used to represent the position or order of a dose within a sequence of doses.   |
| Procedure..Products..Directions..Dose..VariableDoseModifier       | CodedDescriptionType | The VariableDoseModifier member of CodedDescriptionType is a property that represents a modifier for a variable dose in a medical direction or prescription. It provides additional information or instructions related to the dosage of a medication or treatment, such as adjusting the dose based on |

|  |                                |   |
|--|--------------------------------|---|
|  |                                | certain conditions or factors.  |
| Procedure..Products..Directions..Dose..Value     | String                         | The Value member of String Type in the DirectionDose Type is used to store a numeric value that represents the dose quantity or dosage amount in the context of medication or treatment.  |
| Procedure..Products..Directions..Dose..Units     | MeasureTypeUnits               | The Units member of the MeasureTypeUnits Type represents the units of measurement for the value in the DirectionDose Type. It is used to specify the standard unit of measurement for medication dosage or administration rates within an EHR software. |
| Procedure..Products..Directions..Dose..Code      | List<CodeType>                 | The Code member of List<CodeType> Type is used to store the code value of a medical terminology or classification system, such as LOINC or SNOMED-CT, that is associated with a specific medical concept or entity in the EHR software.                 |
| Procedure..Products..Directions..DoseCalculation | List<DirectionDoseCalculation> | The DoseCalculation member of List<DirectionDoseCalculation> Type is used to calculate the dose of a medication or treatment plan based on various parameters such as rate, calculation sequence position, variable                                     |

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|---|--------------------------|---|
|   |                          | calculation modifier, and dose measurement. It is used in EHR software to accurately determine and record the appropriate dosage for patients.  |
| Procedure..Products..Directions..DoseCalculation.                             | DirectionDoseCalculation | The member of the DirectionDoseCalculation type is used to represent the calculation of a dose of medication or treatment direction in the electronic health record (EHR) software. It includes information such as the rate, sequence position, calculation modifier, dose measurement, variables, and calculation equation. |
| Procedure..Products..Directions..DoseCalculation..Rate                        | List<RateType>           | The Rate member of the List<RateType> type is used to store information about the rate of administration or delivery of a medication or treatment. It includes details such as the value of the rate, the units of measurement, and any modifiers that may apply to the rate.   |
| Procedure..Products..Directions..DoseCalculation..CalculationSequencePosition | String                   | The CalculationSequencePosition member of type String in the DirectionDoseCalculation class is used to specify the position of a calculation sequence within a dose calculation. It defines the order in which calculations should be performed, ensuring that the correct  |

|   |                                   |  |
|---|-----------------------------------|--|
|   |                                   | sequence is followed when calculating the dose for a medication or treatment.  |
| Procedure..Products..Directions..DoseCalculation..VariableCalculationModifier | CodedDescriptionType              | The VariableCalculationModifier member of the CodedDescriptionType Type is used to specify a modifier that affects the calculation of a variable in the DirectionDoseCalculation. This modifier may alter the value or interpretation of the calculated variable.  |
| Procedure..Products..Directions..DoseCalculation..Dose                        | MeasureType                       | The Dose member of the MeasureType Type represents the numerical value of a dose measurement, such as a medication dosage or a radiation dose.   |
| Procedure..Products..Directions..DoseCalculation..Variable                    | List<DoseCalculationTypeVariable> | The Variable member of List<DoseCalculationTypeVariable> Type in the DirectionDoseCalculation Type is used to store different variables related to dose calculations for a medication. It contains information such as the variable identifier, sequence position, modifier, value, units, and codes associated with the variable. |
| Procedure..Products..Directions..DoseCalculation..Variable.                   | DoseCalculationTypeVariable       | The member "VariableModifier" in the "DoseCalculationTypeVariable" type is used to specify any modifications or adjustments that need to   |

|  |                      |   |
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|  |                      | be applied to the variable being calculated in a dose calculation.  |
| Procedure..Products..Directions..DoseCalculation..Variable..VariableIdentifier       | String               | The VariableIdentifier member of String Type in the DoseCalculationTypeVariable Type is used to uniquely identify a specific variable within a dose calculation.  |
| Procedure..Products..Directions..DoseCalculation..Variable..VariableSequencePosition | String               | The VariableSequencePosition member in the DoseCalculationTypeVariable Type is used to indicate the position or order of the variable within a sequence of variables.   |
| Procedure..Products..Directions..DoseCalculation..Variable..VariableModifier         | CodedDescriptionType | The VariableModifier member of the CodedDescriptionType Type is used to provide additional information or modify the variable in the DoseCalculationTypeVariable Type.  |
| Procedure..Products..Directions..DoseCalculation..Variable..Value                    | String               | The Value member of String Type in the DoseCalculationTypeVariable Type is used to store a numerical value or a specific string value associated with a variable in a dose calculation system within an EHR software. |
| Procedure..Products..Directions..DoseCalculation..Variable..Units                    | MeasureTypeUnits     | The Units member of the MeasureTypeUnits Type is used to represent the units of measurement for a particular value in the   |

|   |  |   |
|---|--|---|
|   |  | DoseCalculationTypeVariable Type.   |
| Procedure..Products..Directions..DoseCalculation..Variable..Code            | List<CodeType>                         | The Code member of the List<CodeType> type is used to store the code value associated with a specific variable in the DoseCalculationTypeVariable type. It could represent a unique identifier or classification system for the variable.   |
| Procedure..Products..Directions..DoseCalculation..CalculationEquation       | DoseCalculationTypeCalculationEquation | The CalculationEquation member of the DoseCalculationTypeCalculationEquation Type is used to store the mathematical equation or formula used for calculating the dose in the DirectionDoseCalculation.  |
| Procedure..Products..Directions..DoseCalculation..CalculationEquation.Value | String                                 | The Value member of String Type in the DoseCalculationTypeCalculationEquation Type is used to store a string value that represents a calculation equation within the EHR software.  |
| Procedure..Products..Directions..DoseCalculation..CalculationEquation.Code  | List<CodeType>                         | The Code member of the List<CodeType> type is used to store a numerical or alphanumeric identifier that corresponds to a specific code or classification system. It provides a standardized way to categorize or identify a particular element within the DoseCalculationTypeCalculationEquation. |

|   |                          |   |
|---|--------------------------|---|
|   |                          | tionEquation type.  |
| Procedure..Products..Directions..Vehicle              | List<VehicleType>        | The Vehicle member of the List<VehicleType> Type is used to store information about the vehicle or medium used for delivering a medication or substance to a patient.   |
| Procedure..Products..Directions..Vehicle.             | VehicleType              | The member of VehicleType Type, which is a member of the List<VehicleType> Type, is used to represent a specific vehicle product associated with a patient's electronic health record (EHR).  |
| Procedure..Products..Directions..Vehicle..Description | CodedDescriptionType     | The Description member of the CodedDescriptionType Type in VehicleType is used to provide a textual description of a coded entity related to a vehicle. It serves as a detailed explanation or summary of the coded entity, providing additional information or context about the vehicle.                                    |
| Procedure..Products..Directions..Vehicle..Product     | List<VehicleTypeProduct> | The Product member of List<VehicleTypeProduct> Type is used to store information about a specific product related to a vehicle in an electronic health record (EHR) system. It may include details such as the product name, brand name, strength, form, concentration, size, and any modifiers related to multiple products. |



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| Procedure..Products..Directions..Vehicle..Product.             | VehicleTypeProduct               | The member of VehicleTypeProduct Type is the ProductName, which represents the name of the product for a specific vehicle.  |
| Procedure..Products..Directions..Vehicle..Product..ProductName | CodedDescriptionType             | The ProductName member of the CodedDescriptionType type in the VehicleTypeProduct type represents the name of a specific product within the electronic health record (EHR) software. It is used to identify and differentiate between different products, such as medications or medical supplies, within the EHR system. |
| Procedure..Products..Directions..Vehicle..Product..BrandName   | CodedDescriptionType             | The BrandName member of the CodedDescriptionType Type in the VehicleTypeProduct Type is used to store the brand name of a specific product.   |
| Procedure..Products..Directions..Vehicle..Product..Strength    | List<VehicleTypeProductStrength> | The Strength member of List<VehicleTypeProductStrength> Type in the VehicleTypeProduct Type is used to specify the strength or concentration of a particular product used in a vehicle, such as a medication or ingredient.   |
| Procedure..Products..Directions..Vehicle..Product..Strength.   | VehicleTypeProductStrength       | The member "StrengthSequencePosition" of the VehicleTypeProductStrength type is used to indicate the position or order of the strength sequence for a   |

|   |                      |  |
|---|----------------------|--|
|   |                      | specific product.  |
| Procedure..Products..Directions..Vehicle..Product..Strength..StrengthSequencePosition | String               | The StrengthSequencePosition member of String Type is a property that represents the sequence position of a strength modifier for a product within a vehicle. It is used to organize and identify the specific order of different strength modifiers applied to a product within a vehicle in the context of electronic health records (EHR) software.     |
| Procedure..Products..Directions..Vehicle..Product..Strength..VariableStrengthModifier | CodedDescriptionType | The VariableStrengthModifier member of the CodedDescriptionType Type in the VehicleTypeProductStrength Type is used to specify any variable modifiers associated with the strength of a product or substance. It could potentially describe any variations or modifications in the strength of the product, such as different concentrations or potencies. |
| Procedure..Products..Directions..Vehicle..Product..Strength..Value                    | String               | The Value member of String Type in the VehicleTypeProductStrength is used to store the string value of the product strength.   |
| Procedure..Products..Directions..Vehicle..Product..Strength..Units                    | MeasureTypeUnits     | The Units member of the MeasureTypeUnits Type in   |

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|---|----------------------------------|---|
| uct..Strength..Units  |                                  | the<br>VehicleTypeProductStrengt<br>h Type is used to store the<br>unit of measurement for a<br>particular value, such as<br>weight or dosage.  |
| Procedure..Products..Directions..Vehicle..Prod<br>uct..Strength..Code | List<CodeType>                   | The Code member of the<br>List<CodeType> Type is<br>used to store a specific<br>code value that identifies a<br>particular attribute or<br>characteristic related to the<br>product strength of a<br>vehicle.   |
| Procedure..Products..Directions..Vehicle..Prod<br>uct..Form           | List<VehicleTypeProductFor<br>m> | The Form member of the<br>List<VehicleTypeProductFor<br>m> type is used to<br>represent the various forms<br>or physical states in which a<br>product can be available,<br>such as tablets, capsules,<br>liquid, or cream, within the<br>context of a vehicle type<br>product. It may also contain<br>additional information such<br>as modifiers or object<br>attributes related to the<br>product form. |
| Procedure..Products..Directions..Vehicle..Prod<br>uct..Form.          | VehicleTypeProductForm           | The<br>"VehicleTypeProductForm"<br>member of the<br>List<VehicleTypeProductFor<br>m> type is used to<br>represent a specific form or<br>format in which a vehicle's<br>product is presented or<br>stored. It includes<br>information such as the<br>sequence position of the<br>form, any modifiers that<br>apply to multiple forms, the<br>text description of the                                       |

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|   |  | form, and any additional attributes or codes associated with the form.   |
| Procedure..Products..Directions..Vehicle..Product..Form..FormSequencePosition | String                                     | The FormSequencePosition member of the String Type in the VehicleTypeProductForm Type is used to specify the position of a form within a sequence of forms.  |
| Procedure..Products..Directions..Vehicle..Product..Form..MultipleFormModifier | CodedDescriptionType                       | The MultipleFormModifier member of the CodedDescriptionType type in the VehicleTypeProductForm type is used to indicate a modifier or additional information related to the form or product being described. It may provide additional details or variations in the form or product that the code or text alone cannot convey. |
| Procedure..Products..Directions..Vehicle..Product..Form..Text                 | String                                     | The Text member of the String Type in the VehicleTypeProductForm Type is used to store textual information or descriptions related to the specific product form of a vehicle.  |
| Procedure..Products..Directions..Vehicle..Product..Form..ObjectAttribute      | List<CodedDescriptionType ObjectAttribute> | The ObjectAttribute member of List<CodedDescriptionType ObjectAttribute> Type in the VehicleTypeProductForm Type is used to define specific attributes or properties of an object  |

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|---|---------------------------------------|---|
|   |                                       | related to a vehicle or product. It may contain information such as the attribute name, possible attribute values, and corresponding codes.   |
| Procedure..Products..Directions..Vehicle..Product..Form..Code     | List<CodeType>                        | The Code member of List<CodeType> Type in the VehicleTypeProductForm Type is used to store a specific code value that represents a particular attribute or characteristic of a product form in the electronic health record (EHR) software. This code value may be standardized and categorized according to a specific coding system or terminology, such as SNOMED or LOINC, to ensure consistency and interoperability across different EHR systems. |
| Procedure..Products..Directions..Vehicle..Product..Concentration  | List<VehicleTypeProductConcentration> | The Concentration member in the List<VehicleTypeProductConcentration> type is used to represent the concentration of a specific component or substance in a product. This member contains information such as the concentration value, units of measurement, and any relevant codes associated with the concentration.  |
| Procedure..Products..Directions..Vehicle..Product..Concentration. | VehicleTypeProductConcentration       | The member "ConcentrationSequencePosition" is used to indicate the position or sequence of the concentration within a   |

|   |                      |  |
|---|----------------------|--|
|   |                      | list of concentrations for a specific vehicle or product.  |
| Procedure..Products..Directions..Vehicle..Product..Concentration..ConcentrationSequencePosition | String               | The ConcentrationSequencePosition member of String Type in the VehicleTypeProductConcentration Type represents the position or sequence of a concentration value within a list or array. It is used to identify the position of a concentration value in relation to other values, providing a sequential order for further processing or analysis in the context of EHR software. |
| Procedure..Products..Directions..Vehicle..Product..Concentration..VariableConcentrationModifier | CodedDescriptionType | The VariableConcentrationModifier member of the CodedDescriptionType type is used to specify a modifier or qualifier for the concentration value of a product in a vehicle.  |
| Procedure..Products..Directions..Vehicle..Product..Concentration..Value                         | String               | The Value member of String Type in the VehicleTypeProductConcentration Type represents the numerical value of the concentration of a particular substance in a vehicle product. This value is used to quantify the amount or level of the substance present in the product, providing information about its concentration.   |

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| Procedure..Products..Directions..Vehicle..Product..Concentration..Units | MeasureTypeUnits             | The "Units" member of the MeasureTypeUnits type in the VehicleTypeProductConcentration type is used to define the units of measurement for a concentration value related to a specific vehicle or product.   |
| Procedure..Products..Directions..Vehicle..Product..Concentration..Code  | List<CodeType>               | The Code member of the List<CodeType> type is used to store the code value for a specific concept or data element. It represents a standardized identifier or classification system for the associated data.   |
| Procedure..Products..Directions..Vehicle..Product..Size                 | List<VehicleTypeProductSize> | The Size member of List<VehicleTypeProductSize> Type in the VehicleTypeProduct Type is used to represent the size of a product, such as a medication, within an Electronic Health Record (EHR) system. It may include attributes such as the size sequence position, variable size modifier, textual description, object attributes, and relevant codes associated with the size of the product. |
| Procedure..Products..Directions..Vehicle..Product..Size.                | VehicleTypeProductSize       | The member SizeSequencePosition in the VehicleTypeProductSize type is used to indicate the position or sequence of the product size within a list or array.  |

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| Procedure..Products..Directions..Vehicle..Product..Size..SizeSequencePosition | String                                     | The SizeSequencePosition member of the VehicleTypeProductSize Type is a string that represents the position of the product size in a sequence. It is used to organize and display the different sizes of a product in a specific order within the EHR software.  |
| Procedure..Products..Directions..Vehicle..Product..Size..VariableSizeModifier | CodedDescriptionType                       | The VariableSizeModifier member of the CodedDescriptionType Type within the VehicleTypeProductSize Type is a modifier that provides additional descriptive information about the variable size of a product within an electronic health record (EHR) system. It is used to define specific attributes or characteristics related to the size of a particular vehicle or product. |
| Procedure..Products..Directions..Vehicle..Product..Size..Text                 | String                                     | The Text member of the String Type in the VehicleTypeProductSize Type is used to store a textual description or label associated with a specific size or measurement of a product in the context of electronic health records (EHR) software.  |
| Procedure..Products..Directions..Vehicle..Product..Size..ObjectAttribute      | List<CodedDescriptionType ObjectAttribute> | The ObjectAttribute member of the List<CodedDescriptionType ObjectAttribute> type in the VehicleTypeProductSize  |



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|  |                      | type is used to store attributes related to an object. It contains a list of object attribute values and codes associated with those attribute values.   |
| Procedure..Products..Directions..Vehicle..Product..Size..Code              | List<CodeType>       | The Code member of the List<CodeType> type is used to store the coding system value for a specific code. It may be used to identify the system or standard used to assign the given code value in the VehicleTypeProductSize type, which is part of an electronic health record (EHR) software system. |
| Procedure..Products..Directions..Vehicle..Product..ProductSequencePosition | String               | The ProductSequencePosition member of type String within the VehicleTypeProduct Type is used to indicate the position or order of a specific product within a sequence or list of products.  |
| Procedure..Products..Directions..Vehicle..Product..MultipleProductModifier | CodedDescriptionType | The MultipleProductModifier member of the VehicleTypeProduct type in the EHR software is used to indicate any modifiers that may apply to multiple products within a medication or treatment plan.   |
| Procedure..Products..Directions..Vehicle..Manufacturer                     | ActorReferenceType   | The Manufacturer member of the ActorReferenceType Type in the VehicleType  |

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|---|---------------------------|--|
|   |                           | Type is used to store information about the manufacturer of a vehicle.   |
| Procedure..Products..Directions..Vehicle..IDs                               | IDType                    | The IDs member of the IDType Type in the VehicleType Type is used to store identification information related to the vehicle. It includes details such as the type of identification, the ID value, the entity that issued the ID, and additional metadata such as timestamps, sources, references, comments, and signatures.      |
| Procedure..Products..Directions..Vehicle..Quantity                          | List<VehicleTypeQuantity> | The Quantity member of the List<VehicleTypeQuantity> type in the VehicleType type is used to store information related to the quantity of a particular vehicle or product. It may include details such as the value of the quantity, the units of measurement, and any additional modifiers or codes associated with the quantity. |
| Procedure..Products..Directions..Vehicle..Quantity.                         | VehicleTypeQuantity       | The "Value" member of the VehicleTypeQuantity type is used to store the numerical value associated with a specific quantity or measurement.  |
| Procedure..Products..Directions..Vehicle..Quantity.QuantitySequencePosition | String                    | The QuantitySequencePosition member of type String in the VehicleTypeQuantity is used to determine the   |

|  |                      |  |
|--|----------------------|--|
|  |                      | position or sequence of a quantity value within a set of related quantities.   |
| Procedure..Products..Directions..Vehicle..Quantity..VariableQuantityModifier | CodedDescriptionType | The VariableQuantityModifier member of the CodedDescriptionType type is used to specify additional information or modifiers related to the quantity of a variable within a vehicle (e.g., a lab result).   |
| Procedure..Products..Directions..Vehicle..Quantity..Value                    | String               | The Value member of type String in the VehicleTypeQuantity type is used to store a numerical value associated with a specific quantity or measurement.   |
| Procedure..Products..Directions..Vehicle..Quantity..Units                    | MeasureTypeUnits     | The Units member of the MeasureTypeUnits Type in the VehicleTypeQuantity Type is used to represent the unit of measurement for a specific quantity.  |
| Procedure..Products..Directions..Vehicle..Quantity..Code                     | List<CodeType>       | The Code member of the List<CodeType> Type is used to represent a specific code value associated with a particular item or concept, such as a medical procedure, test, or condition. It includes information about the value of the code and the coding system or standard used. |
| Procedure..Products..Directions..Vehicle..VehicleSequencePosition            | String               | The VehicleSequencePosition member of String type in the VehicleType class is  |

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|   |                      | used to indicate the position or order of a vehicle within a sequence or list. It may be used to track the order in which vehicles are recorded or displayed in the electronic health record (EHR) software.   |
| Procedure..Products..Directions..Vehicle..MultipleVehicleModifier | CodedDescriptionType | The MultipleVehicleModifier member of the CodedDescriptionType Type in the VehicleType Type is used to indicate any additional modifiers or specifications related to multiple vehicles within the context of the EHR software.  |
| Procedure..Products..Directions..Vehicle..InternalCCRLink         | InternalCCRLink      | The InternalCCRLink member of the InternalCCRLink Type in the VehicleType Type is used to represent internal links within the electronic health record (EHR) system. It may contain information such as a unique identifier for the link, the relationship between the linked resources, and the source of the link. |
| Procedure..Products..Directions..Route                            | List<DirectionRoute> | The Route member of the List<DirectionRoute> type represents the route or method of administration for a medication or treatment. It specifies how the medication or treatment should be delivered to the patient's  |

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|---|----------------------|---|
|   |                      | body, such as oral, intravenous, or topical. This information is important for healthcare providers to ensure that the medication or treatment is administered correctly and effectively.   |
| Procedure..Products..Directions..Route.                       | DirectionRoute       | The member of the DirectionRoute Type is used to specify the sequence position, modifier, text, object attributes, and codes related to a specific direction or route for a medical procedure or test.                                    |
| Procedure..Products..Directions..Route..RouteSequencePosition | String               | The RouteSequencePosition member of String Type in the DirectionRoute Type is used to represent the sequence position of a route in the context of a medical direction or instruction.  |
| Procedure..Products..Directions..Route..MultipleRouteModifier | CodedDescriptionType | The MultipleRouteModifier member of the CodedDescriptionType Type is used to specify additional modifiers or attributes related to the route of administration for a medication or procedure in an electronic health record (EHR) system. |
| Procedure..Products..Directions..Route..Text                  | String               | The Text member of String Type in the DirectionRoute Type is used to store the textual description or label associated with a specific route or direction for a medical procedure or  |

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|--|--|--|
|  |  | treatment.   |
| Procedure..Products..Directions..Route..Object Attribute | List<CodedDescriptionType ObjectAttribute> | The ObjectAttribute member in the CodedDescriptionTypeObjectAttribute of the DirectionRoute type is used to specify additional attributes or characteristics of an object or entity related to the direction or route of a medical procedure, such as specific instructions or requirements. |
| Procedure..Products..Directions..Route..Code             | List<CodeType>                             | The Code member of the List<CodeType> type represents a specific code value used to identify a direction or route for a medical procedure or treatment. It is used to categorize and standardize the direction or route information within the EHR software.                                 |
| Procedure..Products..Directions..Site                    | List<SiteType>                             | The Site member of the List<SiteType> Type represents the location on the patient's body where a medication or treatment is administered. It specifies the position or area where the action is performed.   |
| Procedure..Products..Directions..Site.                   | SiteType                                   | The member of SiteType Type in the List<SiteType> Type is used to store information about the location or site of a medical procedure or test.   |

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|---|--|--|
| Procedure..Products..Directions..Site..SiteSequencePosition | String                                     | The SiteSequencePosition member of String Type in the SiteType Type is used to indicate the position of a specific site within a sequence of multiple sites.   |
| Procedure..Products..Directions..Site..MultipleSiteModifier | CodedDescriptionType                       | The MultipleSiteModifier member of the CodedDescriptionType Type in the SiteType Type is used to indicate any modifier or additional information associated with multiple sites in an electronic health record.                              |
| Procedure..Products..Directions..Site..Text                 | String                                     | The Text member of the String Type in the SiteType Type is used to store textual information related to a specific site, such as a location or position on the body, within an electronic health record (EHR) system.                        |
| Procedure..Products..Directions..Site..ObjectAttribute      | List<CodedDescriptionType ObjectAttribute> | The ObjectAttribute member of List<CodedDescriptionType ObjectAttribute> is used to store additional attributes or properties associated with an object in the EHR software, such as a site of a medical procedure or test.                  |
| Procedure..Products..Directions..Site..Code                 | List<CodeType>                             | The `Code` member of the `SiteType` type is used to store a specific code value that represents a particular site or location related to a healthcare procedure or test. It may include additional information such as the coding system and |

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|---|-------------------------------------|---|
|   |                                     | version used for the code value.  |
| Procedure..Products..Directions..AdministrationTiming                         | List<DirectionAdministrationTiming> | The AdministrationTiming member of List<DirectionAdministrationTiming> Type is used to specify the timing of the administration of a medication or treatment. It includes information such as the timing sequence position, variable timing modifier, type of timing, exact date and time, age-based timing, approximate date and time, and date/time range. This information helps in scheduling and coordinating the administration of medications or treatments according to specific timing requirements. |
| Procedure..Products..Directions..AdministrationTiming.                        | DirectionAdministrationTiming       | The member "TimingSequencePosition" in the DirectionAdministrationTiming type is used to represent the position or order of the timing sequence within the administration of a medication or treatment.   |
| Procedure..Products..Directions..AdministrationTiming..TimingSequencePosition | String                              | The TimingSequencePosition member of String Type in the DirectionAdministrationTiming Type represents the position of a timing sequence within the  |



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|   |                      | administration schedule. It is used to specify the order or sequence of timing for the administration of a medication or treatment.   |
| Procedure..Products..Directions..AdministrationTiming..VariableTimingModifier | CodedDescriptionType | The VariableTimingModifier member of the CodedDescriptionType Type in the DirectionAdministrationTiming Type is a description of a modifier that can vary the timing of a direction or administration. It provides additional information or specifications for the timing of a specific action or event within the context of the direction or administration. |
| Procedure..Products..Directions..AdministrationTiming..Type                   | CodedDescriptionType | The Type member of CodedDescriptionType Type is used to provide a coded description or classification for the direction and administration timing of a medical procedure or medication.   |
| Procedure..Products..Directions..AdministrationTiming..ExactDateTime          | String               | The ExactDateTime member of String Type in the DirectionAdministrationTiming Type is used to store the exact date and time of a specific event or action related to the administration of a medication or procedure. It provides a precise timestamp for when the event occurred.   |

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| Procedure..Products..Directions..AdministrationTiming..Age                 | MeasureType                     | The Age member of the MeasureType Type in the DirectionAdministrationTiming Type is used to specify the age of the patient at the time of administration of a medication or procedure.  |
| Procedure..Products..Directions..AdministrationTiming..ApproximateDateTime | CodedDescriptionType            | The ApproximateDateTime member of the CodedDescriptionType Type in the DirectionAdministrationTiming Type is used to provide an approximate date and time for the administration of a medication or procedure. It is used in EHR software to capture and display an estimated time for a specific event to occur. |
| Procedure..Products..Directions..AdministrationTiming..DateTimeRange       | List<DateTimeTypeDateTimeRange> | The DateTimeRange member of the List<DateTimeTypeDateTimeRange> type is used to represent a range of date and time values within the DirectionAdministrationTiming type. It allows for specifying a start and end range of dates and times for scheduling or recording purposes.                                  |
| Procedure..Products..Directions..Frequency                                 | List<FrequencyType>             | The Frequency member of the List<FrequencyType> type is used to store information about the frequency of administration or dosing for a specific direction or medication. It includes details such as the description, value, units,  |

|  |                                |  |
|--|--------------------------------|--|
|  |                                | and modifiers related to the frequency of administration.  |
| Procedure..Products..Directions..Interval        | List<IntervalType>             | The Interval member of the List<IntervalType> type is used to specify the time interval or frequency at which a certain direction or action should occur within the context of the EHR software.   |
| Procedure..Products..Directions..Duration        | List<DurationType>             | The Duration member of the List<DurationType> Type is used to store information related to the duration of a particular direction or instruction within the Direction Type. It includes details such as the duration value, units of measurement, description, and any associated codes or modifiers. This information helps to provide specific instructions or guidelines related to the duration of a particular action or treatment. |
| Procedure..Products..Directions..DoseRestriction | List<DirectionDoseRestriction> | The DoseRestriction member of List<DirectionDoseRestriction> Type is used to specify any restrictions or limitations on the dosage of a medication or treatment. It may include variables such as the rate of administration, dose calculation equations, and any modifiers or modifiers that affect the dosage.   |

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| Procedure..Products..Directions..DoseRestriction.                             | DirectionDoseRestriction | The member of DirectionDoseRestriction Type is used to specify restrictions or limitations on the dosage and administration directions for a medication or treatment. It includes information such as the rate of administration, position in the sequence of restrictions, variable restriction modifier, dose measurement, and any calculation equations or variables associated with the dose. |
| Procedure..Products..Directions..DoseRestriction..Rate                        | List<RateType>           | The Rate member of the List<RateType> Type is used to store information about the rate of administration or delivery of a medication or treatment. It may include values such as the rate, units of measurement, and modifiers related to the rate.   |
| Procedure..Products..Directions..DoseRestriction..RestrictionSequencePosition | String                   | The RestrictionSequencePosition member of String Type in the DirectionDoseRestriction Type is used to indicate the position or sequence of a restriction within a set of restrictions related to dosage or medication directions.   |
| Procedure..Products..Directions..DoseRestriction..VariableRestrictionModifier | CodedDescriptionType     | The VariableRestrictionModifier member of the   |

|   |  |  |
|---|--|--|
|   |  | CodedDescriptionType Type in the DirectionDoseRestriction Type is used to indicate a modifier or additional information related to a variable restriction in the dosage of a medication or treatment.  |
| Procedure..Products..Directions..DoseRestriction..Dose                | MeasureType                            | The Dose member of the MeasureType Type is a numerical value that represents the quantity or amount of a substance or medication administered to a patient. It is used to specify the dosage or amount of a medication or substance that is prescribed or given to a patient as part of a treatment plan or procedure.       |
| Procedure..Products..Directions..DoseRestriction..Variable            | List<DoseCalculationTypeVariable>      | The Variable member of the List<DoseCalculationTypeVariable> type is used to store and represent various variables used in dose calculations within the medication administration process. These variables can include identifiers, sequence positions, modifiers, values, units, and codes associated with the calculation. |
| Procedure..Products..Directions..DoseRestriction..CalculationEquation | DoseCalculationTypeCalculationEquation | The CalculationEquation member of the DoseCalculationTypeCalculationEquation type is a string value that represents the calculation equation used to determine the dosage for  |

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|--|----------------------|---|
|  |                      | a medication or treatment. It is used to provide a formula or algorithm for calculating the dose based on various factors such as patient weight, age, or other medical conditions.                       |
| Procedure..Products..Directions..Indication                | List<IndicationType> | The Indication member of the List<IndicationType> Type in the Direction Type is used to specify any indications or reasons for the direction or instruction within a medical procedure or treatment plan. |
| Procedure..Products..Directions..StopIndicator             | CodedDescriptionType | The StopIndicator member of the CodedDescriptionType Type in the Direction Type is used to indicate whether or not a particular direction or instruction should be stopped or discontinued.               |
| Procedure..Products..Directions..DirectionSequencePosition | String               | The DirectionSequencePosition member of type String in the Direction Type is used to indicate the position or order of a particular direction within a sequence of directions.                            |
| Procedure..Products..Directions..MultipleDirectionModifier | CodedDescriptionType | The MultipleDirectionModifier member of the CodedDescriptionType is used to indicate any additional modifiers or qualifiers associated with the direction or instruction given for administering a        |

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|---|-----------------------|--|
|   |                       | substance.   |
| Procedure..Products..PatientInstructions                              | List<InstructionType> | The PatientInstructions member of List<InstructionType> in the StructuredProductType type is used to provide instructions or guidance to the patient regarding the usage or administration of the structured product.  |
| Procedure..Products..PatientInstructions.                             | InstructionType       | The member of the InstructionType Type, which is a member of the List<InstructionType> Type, is used to store instructions or guidelines for a specific procedure or test.   |
| Procedure..Products..PatientInstructions..instructionSequencePosition | String                | The instructionSequencePosition member is a string that represents the position or order of the instruction within a sequence or set of instructions. It is used to organize and arrange the instructions in a specific order for execution or reference in the EHR software.  |
| Procedure..Products..PatientInstructions..MultipleInstructionModifier | CodedDescriptionType  | The MultipleInstructionModifier member of the CodedDescriptionType type is a modifier that provides additional information or instructions regarding multiple instructions in the InstructionType type. It may be used to specify variations or specific attributes related to |

|   |  |  |
|---|--|--|
|   |  | multiple instructions within a single record.  |
| Procedure..Products..PatientInstructions..Text            | String                                     | The Text member of the String Type in the InstructionType Type is used to store the textual instructions or directions provided to the patient or healthcare provider.   |
| Procedure..Products..PatientInstructions..ObjectAttribute | List<CodedDescriptionType ObjectAttribute> | The ObjectAttribute member of the List<CodedDescriptionType ObjectAttribute> Type in the InstructionType Type is used to define specific attributes or properties related to an object or instruction within the EHR software.   |
| Procedure..Products..PatientInstructions..Code            | List<CodeType>                             | The Code member of the List<CodeType> type is used to store a specific code value associated with an instruction. This code value represents a standardized identifier or classification system for the instruction, such as a medical procedure code or a medication code. It is used to ensure consistency and interoperability when exchanging and interpreting data related to the instruction within an EHR system. |
| Procedure..Products..FulfillmentInstructions              | List<InstructionType>                      | The FulfillmentInstructions member of the List<InstructionType> type in the StructuredProductType  |



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|  |                                   | type is used to provide specific instructions or guidance to healthcare providers on how to fulfill or carry out the structured product or medication order.  |
| Procedure..Products..Refills           | List<StructuredProductTypeRefill> | The Refills member of List<StructuredProductTypeRefill> Type in the StructuredProductType Type is used to store information about the number, quantity, status, and date of refills for a structured product, such as a prescription medication.                          |
| Procedure..Products..Refills.          | StructuredProductTypeRefill       | The member "Status" in the "StructuredProductTypeRefill" type is used to indicate the status of a refill request or prescription.   |
| Procedure..Products..Refills..Number   | List<String>                      | The Number member of the List<String> Type in the StructuredProductTypeRefill Type is used to store the unique identification number associated with a specific refill of a structured product.   |
| Procedure..Products..Refills..Quantity | List<QuantityType>                | The Quantity member of List<QuantityType> Type in the StructuredProductTypeRefill Type is used to represent the quantity of a refill for a structured product, such as medication. It stores information such as the value of the quantity, units of measurement, and any |

|   |                      |  |
|---|----------------------|--|
|   |                      | associated codes or modifiers.   |
| Procedure..Products..Refills..Status        | CodedDescriptionType | The Status member of the CodedDescriptionType Type within the StructuredProductTypeRefill Type is used to indicate the current status or condition of the structured product refill.   |
| Procedure..Products..Refills..DateTime      | List<DateTimeType>   | The DateTime member of List<DateTimeType> Type in the StructuredProductTypeRefill Type is used to store and represent date and time information related to the refill of a structured product.   |
| Procedure..Products..Refills..Comment       | List<CommentType>    | The Comment member of the List<CommentType> Type is used to store comments or additional information related to the refill of a structured product. It may contain details such as the comment object ID, date and time of the comment, comment type, description, and source information. |
| Procedure..Products..Refills..Comment.      | CommentType          | The member of CommentType Type is used to store comments associated with a specific result or procedure in an electronic health record (EHR).  |
| Procedure..Products..Refills..Comment..Comm | String               | The CommentObjectID member of String Type in   |

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|--|--------------------------|---|
| entObjectID  |                          | the CommentType is used to uniquely identify a specific comment within the EHR software system.   |
| Procedure..Products..Refills..Comment..DateTime    | DateTimeType             | The DateTime member of the DateTimeType Type in the CommentType Type is used to store the date and time associated with a comment.  |
| Procedure..Products..Refills..Comment..Type        | CodedDescriptionType     | The Type member of the CodedDescriptionType Type in the CommentType Type is used to represent the type or category of the comment.  |
| Procedure..Products..Refills..Comment..Description | CodedDescriptionType     | The Description member of the CodedDescriptionType Type in the CommentType Type is used to provide a text description or explanation associated with a comment or entry in the electronic health record (EHR) system. It describes the content or context of the comment or entry, providing additional information or details to aid in understanding or interpretation. |
| Procedure..Products..Refills..Comment..Source      | List<ActorReferenceType> | The Source member of the List<ActorReferenceType> Type in CommentType is used to store the source or origin of the comment, such as the healthcare provider or system that created or recorded the comment.   |

|  |                        |  |
|--|------------------------|--|
| Procedure..Products..Refills..Comment..ReferenceID | List<String>           | The ReferenceID member of the List<String> Type in the CommentType is used to store unique identifier(s) or reference(s) associated with the comment. These identifiers or references could be used to link the comment to other related entities or data within the EHR software system.            |
| Procedure..Products..SeriesNumber                  | String                 | The SeriesNumber member of String Type in the StructuredProductType is used to indicate a unique identifier or reference number for a series of related medical products or treatments within the EHR software system.   |
| Procedure..Products..Consent                       | CCRCodedDataObjectType | The Consent member of the CCRCodedDataObjectType within the StructuredProductType is used to store information related to the patient's consent or authorization for a specific medical product or procedure.  |
| Procedure..Products..Reaction                      | Reaction               | The Reaction member of the Reaction Type within the StructuredProductType is used to capture information about any reactions or side effects experienced by a patient in response to a medication or treatment. It includes details such as the description, status, severity, and any interventions |

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|   |                            | performed to address the reaction.   |
| Procedure..Products..Reaction.Description   | CodedDescriptionType       | The Description member of the CodedDescriptionType Type, which is a member of the Reaction Type, is used to store a textual description of a reaction. It provides additional information and details about the reaction that may help in understanding its nature and characteristics.                    |
| Procedure..Products..Reaction.Status        | CodedDescriptionType       | The Status member of the CodedDescriptionType within the Reaction Type is used to indicate the current state or condition of the reaction.   |
| Procedure..Products..Reaction.Severity      | CodedDescriptionType       | The Severity member of the CodedDescriptionType Type in the Reaction Type is used to describe the severity level of a particular reaction or condition. It provides a way to classify and communicate the seriousness of the reaction or condition to healthcare professionals and other relevant parties. |
| Procedure..Products..Reaction.Interventions | List<ReactionIntervention> | The Interventions member of the List<ReactionIntervention> Type is used to store information about the actions or treatments administered to address a specific reaction or condition.   |

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| Procedure..Products..Reaction.Interventions.                 | ReactionIntervention | The member of the ReactionIntervention Type, which is a member of the List<ReactionIntervention> Type, is used to store information about reactions and interventions related to patient care. It may include details such as the type of reaction or intervention, its description, status, sources, references, comments, and signatures. Additionally, it may also contain information about procedures, products, medications, immunizations, services, and encounters related to the reaction or intervention. |
| Procedure..Products..Reaction.Interventions..CCRDataObjectID | String               | The CCRDataObjectID member of String Type in the ReactionIntervention Type is a unique identifier for a specific data object within the EHR software. It is used to link different pieces of information related to a reaction or intervention, allowing for easy retrieval and analysis of the data.   |
| Procedure..Products..Reaction.Interventions..DateTime        | List<DateTimeType>   | The DateTime member of List<DateTimeType> in the ReactionIntervention Type is used to capture various date and time information related to the reaction or intervention.  |
| Procedure..Products..Reaction.Interventions..T               | CodedDescriptionType | The Type member of the CodedDescriptionType Type  |

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| type   |                       | in the ReactionIntervention Type is used to indicate the specific type or category of the coded description.  |
| Procedure..Products..Reaction.Interventions..Description     | CodedDescriptionType  | The Description member of the CodedDescriptionType type is used to provide a textual description or explanation of a reaction or intervention in the EHR software.  |
| Procedure..Products..Reaction.Interventions..Status          | CodedDescriptionType  | The Status member of the CodedDescriptionType Type in the ReactionIntervention Type is used to indicate the current status or condition of the reaction or intervention being documented in the EHR software.   |
| Procedure..Products..Reaction.Interventions..Source          | List<SourceType>      | The Source member of the List<SourceType> Type in the ReactionIntervention Type is used to store information related to the source or origin of the reaction or intervention data. It may contain details such as the description of the source, the actor or entity responsible for the data, the date and time of the data entry or retrieval, and any reference or comment IDs associated with the source. |
| Procedure..Products..Reaction.Interventions..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the List<InternalCCRLink> Type is used to store information about the internal links  |

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|  |                       | within the Common Clinical Repository (CCR) data. It contains details such as the LinkID, LinkRelationship, and Source of the internal link.   |
| Procedure..Products..Reaction.Interventions..ReferenceID | List<String>          | The ReferenceID member of the List<String> Type in the ReactionIntervention Type is used to store unique identifiers or references to other related data within the electronic health record (EHR) system. It could be used to establish connections or associations between different elements or entities in the EHR system, such as linking a reaction or intervention to specific lab results or clinical documents. |
| Procedure..Products..Reaction.Interventions..CommentID   | List<String>          | The CommentID member of List<String> Type in the ReactionIntervention Type is used to store the IDs of comments associated with the reaction or intervention.  |
| Procedure..Products..Reaction.Interventions..Signature   | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> type is used to store the signature ID associated with a reaction intervention record.   |
| Procedure..Products..Reaction.Interventions..Procedures  | List<ProcedureType>   | The Procedures member of the ReactionIntervention Type is used to store information about specific medical procedures that were performed as part of   |



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|  |                             | the reaction or intervention recorded in the EHR software.  |
| Procedure..Products..Reaction.Interventions..Products      | List<StructuredProductType> | The Products member of List<StructuredProductType> in the ReactionIntervention Type is used to store information about products or medications associated with a reaction or intervention recorded in an electronic health record (EHR).  |
| Procedure..Products..Reaction.Interventions..Medications   | List<StructuredProductType> | The Medications member of List<StructuredProductType> Type within the ReactionIntervention Type is used to store information about the medications prescribed or administered to a patient in the context of a reaction or intervention. It may include details such as the specific medication, dosage, instructions for use, and fulfillment history. |
| Procedure..Products..Reaction.Interventions..Immunizations | List<StructuredProductType> | The Immunizations member of the List<StructuredProductType> Type is used to store information about the immunizations administered to a patient.  |
| Procedure..Products..Reaction.Interventions..Services      | List<EncounterType>         | The Services member of List<EncounterType> Type is used to store information related to medical services provided during an   |

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|  |                          | encounter, such as diagnostic tests, procedures, or treatments.  |
| Procedure..Products..Reaction.Interventions..Services.               | EncounterType            | The member of EncounterType Type, which is a member of the List<EncounterType> Type, is used to store information related to the location where an encounter with a patient took place.  |
| Procedure..Products..Reaction.Interventions..Services..Locations     | List<Location>           | The Locations member of the List<Location> Type in the EncounterType Type is used to store information about the physical locations where the encounter took place, such as the name or description of the location and the actor (provider or facility) associated with it.                         |
| Procedure..Products..Reaction.Interventions..Services..Practitioners | List<ActorReferenceType> | The Practitioners member of the List<ActorReferenceType> type in the EncounterType is used to store information about the healthcare practitioners involved in the encounter.  |
| Procedure..Products..Reaction.Interventions..Services..Frequency     | List<FrequencyType>      | The Frequency member of the List<FrequencyType> type in the EncounterType type represents the frequency at which a certain medical action or procedure is performed. It includes information such as the description of the frequency, the value of the frequency, the units of measurement, and any |

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|  |                      | associated codes or modifiers.   |
| Procedure..Products..Reaction.Interventions..Services..Interval    | List<IntervalType>   | The Interval member of the List<IntervalType> Type is used to represent the time interval between encounters or events in an electronic health record (EHR) system. It includes information such as the description of the interval, the value of the interval, and the units of measurement. It provides a way to define the timing and frequency of certain healthcare activities or events recorded in the EHR. |
| Procedure..Products..Reaction.Interventions..Services..Duration    | List<DurationType>   | The Duration member of the List<DurationType> Type in the EncounterType Type is used to represent the duration of an encounter or event in the electronic health record (EHR). It includes the description of the duration, the start and end datetime, the value of the duration, the units of measurement, and any additional codes or modifiers related to the duration.  |
| Procedure..Products..Reaction.Interventions..Services..Indications | List<IndicationType> | The Indications member of List<IndicationType> in the EncounterType Type is used to store information about the indications or reasons for the encounter or procedure documented in the EHR software.  |

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| Procedure..Products..Reaction.Interventions..Services..Instructions    | List<CodedDescriptionType> | The Instructions member of the EncounterType Type is used to store coded descriptions or instructions related to an encounter, such as medical instructions or guidance provided to the patient or practitioner.   |
| Procedure..Products..Reaction.Interventions..Services..Consent         | CCRCodedDataObjectType     | The Consent member of the CCRCodedDataObjectType Type in the EncounterType Type is used to store information related to patient consent for a specific encounter or medical procedure.   |
| Procedure..Products..Reaction.Interventions..Services..CCRDataObjectID | String                     | The CCRDataObjectID member of String Type in the EncounterType Type is used as a unique identifier for the specific encounter data object in an Electronic Health Record (EHR) system. It is used to distinguish and reference this particular encounter among others within the system.   |
| Procedure..Products..Reaction.Interventions..Services..DateTime        | List<DateTimeType>         | The DateTime member of List<DateTimeType> in the EncounterType type is used to store specific dates and times related to an encounter, such as the date and time of the encounter, the date and time of any procedures or tests performed during the encounter, or the date and time of any instructions or indications given during the |

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|  |                      | encounter.  |
| Procedure..Products..Reaction.Interventions..Services..IDs         | List<IDType>         | The IDs member of the List<IDType> Type is used to store a list of identification information associated with an encounter. This could include patient identification numbers, encounter identification numbers, or any other relevant identification information related to the encounter. |
| Procedure..Products..Reaction.Interventions..Services..Type        | CodedDescriptionType | The Type member of the CodedDescriptionType Type is used to specify the type or category of the encounter, such as "consultation", "follow-up", or "diagnostic".  |
| Procedure..Products..Reaction.Interventions..Services..Description | CodedDescriptionType | The Description member of the CodedDescriptionType Type is used to store a text description of an encounter event in the EHR software.  |
| Procedure..Products..Reaction.Interventions..Services..Status      | CodedDescriptionType | The Status member of the CodedDescriptionType type in the EncounterType type is used to represent the current status or condition of the encounter.   |
| Procedure..Products..Reaction.Interventions..Services..Source      | List<SourceType>     | The Source member of the List<SourceType> type in EncounterType is used to represent the source or origin of the encounter information in the EHR software. It may include information such as the description of the source,   |

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|  |                       | the actor or entity that generated the encounter information, the date and time of the encounter, and any reference or comment IDs associated with the encounter.  |
| Procedure..Products..Reaction.Interventions..Services..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the EncounterType type is responsible for linking internal CCR data objects within the EHR software. It provides a link identifier, relationship, and source information for connecting and organizing related CCR data objects.                       |
| Procedure..Products..Reaction.Interventions..Services..ReferenceID     | List<String>          | The ReferenceID member of the EncounterType Type is used to store and reference unique identifiers associated with the encounter.  |
| Procedure..Products..Reaction.Interventions..Services..CommentID       | List<String>          | The CommentID member of the List<String> Type in the EncounterType Type is used to store unique identifiers or codes associated with specific comments related to the encounter. These CommentIDs can be used to retrieve or reference the corresponding comments in the EHR system. |
| Procedure..Products..Reaction.Interventions..Services..Signature       | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> type is used to store the digital signature ID associated with the   |

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|---|----------------------|---|
|   |                      | encounter.  |
| Procedure..Products..Reaction.Interventions..Encounters | List<EncounterType>  | The Encounters member of List<EncounterType> Type in the ReactionIntervention Type is used to store information about medical encounters or visits between a patient and healthcare providers or facilities. This can include details such as the date and time of the encounter, the type and description of the encounter, the status of the encounter, the location of the encounter, and the practitioners involved. It may also include information about the frequency, duration, and instructions related to the encounter, as well as any indications or indications for the encounter. |
| Procedure..Products..Reaction.ReactionSequencePosition  | String               | The ReactionSequencePosition member of type String in the Reaction Type is used to indicate the position or order of a specific reaction within a sequence or series of reactions.  |
| Procedure..Products..Reaction.MultipleReactionModifier  | CodedDescriptionType | The MultipleReactionModifier member of the CodedDescriptionType is used to indicate any additional modifier or qualifier related to a multiple reaction in the context of lab results.  |

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| Procedure..Products..FulfillmentHistory                    | List<OrderRxHistoryType> | The FulfillmentHistory member of the List<OrderRxHistoryType> Type in the StructuredProductType Type is used to store information about the fulfillment history of an order for a prescription medication. It tracks details such as the fulfillment method, provider, location, reaction, product name, strength, quantity, and instructions. It is used to keep a record of when and how the prescription was fulfilled over time. |
| Procedure..Products..FulfillmentHistory.                   | OrderRxHistoryType       | The member "LabelInstructions" of the OrderRxHistoryType Type is used to store instructions or directions for labeling the medication or prescription.   |
| Procedure..Products..FulfillmentHistory..FulfillmentMethod | CodedDescriptionType     | The FulfillmentMethod member of the CodedDescriptionType Type in the OrderRxHistoryType Type represents a code or description that indicates the method or process used to fulfill or complete an order for a medication or prescription in an EHR software system.  |
| Procedure..Products..FulfillmentHistory..Provider          | ActorReferenceType       | The Provider member of the ActorReferenceType Type is used to specify the healthcare provider associated with an order or prescription in the EHR  |



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|   |                      | software.  |
| Procedure..Products..FulfillmentHistory..Location     | ActorReferenceType   | The Location member of the ActorReferenceType type within the OrderRxHistoryType type is used to store information about the location or facility associated with the prescription order.  |
| Procedure..Products..FulfillmentHistory..Reaction     | List<Reaction>       | The Reaction member of List<Reaction> Type in the OrderRxHistoryType is used to capture information about a patient's reactions to a medication or treatment. It includes details such as the description of the reaction, its severity, status, interventions, and any modifiers related to multiple reactions. |
| Procedure..Products..FulfillmentHistory..Reaction.    | Reaction             | The member of Reaction Type is used to capture information about a specific reaction or adverse event related to a medical procedure or test. It includes details such as the description, status, severity, interventions, position in a sequence of reactions, and modifiers for multiple reactions.           |
| Procedure..Products..FulfillmentHistory..Product Name | CodedDescriptionType | The ProductName member of the CodedDescriptionType Type in the OrderRxHistoryType Type is used to represent the name of the product or medication being ordered  |

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|---|--------------------|---|
|   |                    | or prescribed within an electronic health record (EHR) system.  |
| Procedure..Products..FulfillmentHistory..Brand Name   | String             | BrandName is a string member of the OrderRxHistoryType type that is used to store the brand name of a medication prescribed or ordered in an electronic health record (EHR) system.   |
| Procedure..Products..FulfillmentHistory..Manufacturer | ActorReferenceType | The Manufacturer member of ActorReferenceType Type is used to store the information about the manufacturer of a medication or product related to the order or prescription history in the EHR software.   |
| Procedure..Products..FulfillmentHistory..Strength     | List<MeasureType>  | The Strength member of the OrderRxHistoryType Type is used to specify the measurement value and units of strength or dosage of a medication or medical product prescribed or administered in the electronic health record (EHR) software.   |
| Procedure..Products..FulfillmentHistory..Strength.    | MeasureType        | The member of MeasureType Type in the List<MeasureType> Type is used to store numerical measurements of a specific health parameter, such as a lab result or vital sign. It includes the actual value of the measurement, the units in which it is measured, and any relevant codes |

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|  |                            | associated with the measurement.  |
| Procedure..Products..FulfillmentHistory..Form              | List<CodedDescriptionType> | The Form member of the List<CodedDescriptionType> in the OrderRxHistoryType type represents the form of the medication or drug being ordered or prescribed. It provides information about the specific physical form in which the medication is available, such as tablet, capsule, liquid, or injection.   |
| Procedure..Products..FulfillmentHistory..Concentration     | List<MeasureType>          | The Concentration member of the List<MeasureType> type is used to store the concentration of a medication or substance in a specific unit of measure.   |
| Procedure..Products..FulfillmentHistory..Quantity          | List<MeasureType>          | The Quantity member of List<MeasureType> in the OrderRxHistoryType type represents the dosage or amount of a medication prescribed or administered to a patient.  |
| Procedure..Products..FulfillmentHistory..LabelInstructions | List<InstructionType>      | The LabelInstructions member of the OrderRxHistoryType Type is used to store instructions or guidelines related to the medication label. It provides information on how to administer or use the medication, such as dosage instructions, special handling instructions, or any additional instructions that need to be followed by the patient or healthcare |

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|--|--------------------|---|
|  |                    | provider.   |
| Procedure..Products..FulfillmentHistory..Series Number   | String             | The SeriesNumber member of the String Type in the OrderRxHistoryType Type is used to identify a specific series or batch of medication orders or prescriptions within the electronic health record (EHR) software system.   |
| Procedure..Products..FulfillmentHistory..CCRDataObjectID | String             | The CCRDataObjectID member of String Type in the OrderRxHistoryType Type is used as a unique identifier for the specific order or prescription history record within the EHR software.  |
| Procedure..Products..FulfillmentHistory..DateTime        | List<DateTimeType> | The DateTime member of the List<DateTimeType> Type in the OrderRxHistoryType is used to store various types of date and time information related to the order and prescription history, such as the date and time of the order, the date and time the prescription was filled, and any other relevant timestamps. |
| Procedure..Products..FulfillmentHistory..IDs             | List<IDType>       | The IDs member of the List<IDType> type in the OrderRxHistoryType type is used to store the identification information associated with the order or prescription history. It may include details such as the date and time of issuance, the type of   |

|  |                       |   |
|--|-----------------------|---|
|  |                       | identification, the ID itself, and the issuer of the ID.  |
| Procedure..Products..FulfillmentHistory..Type            | CodedDescriptionType  | The Type member of the CodedDescriptionType type in the OrderRxHistoryType type is used to represent the type or category of a medication or prescription order in an electronic health record (EHR) system.  |
| Procedure..Products..FulfillmentHistory..Description     | CodedDescriptionType  | The Description member of the CodedDescriptionType type in the OrderRxHistoryType type is used to provide a description or explanation of the coded item or concept. This description can help to provide additional context or understanding to the coded information within the EHR software. |
| Procedure..Products..FulfillmentHistory..Status          | CodedDescriptionType  | The Status member of the CodedDescriptionType type in the OrderRxHistoryType type is used to indicate the current status or condition of the order or prescription.   |
| Procedure..Products..FulfillmentHistory..Source          | List<SourceType>      | The Source member of List<SourceType> in the OrderRxHistoryType is used to identify the source or origin of the order prescription history information.   |
| Procedure..Products..FulfillmentHistory..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the OrderRxHistoryType type is used to provide references   |

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|  |                       | and relationships between different components or sections of the Electronic Health Record (EHR) data. It allows for linking related information within the EHR, such as linking a medication order to a specific reaction or linking a procedure to a specific comment.                                    |
| Procedure..Products..FulfillmentHistory..ReferenceID | List<String>          | The ReferenceID member of the List<String> Type in the OrderRxHistoryType is used to store the reference identifier(s) related to the order or prescription history record.   |
| Procedure..Products..FulfillmentHistory..CommentID   | List<String>          | The CommentID member of List<String> Type in the OrderRxHistoryType is used to store additional comments or notes related to the order or prescription history.   |
| Procedure..Products..FulfillmentHistory..Signature   | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> type in the OrderRxHistoryType type is used to store the electronic signature associated with the medication order history record in the EHR software. It represents the unique identifier of the electronic signature used to sign the medication order. |
| Procedure..Products..CCRDataObjectID                 | String                | The CCRDataObjectID member of String Type in the StructuredProductType is used as an identifier or unique identifier for the  |

|                                  |                      |  |
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|                                  |                      | data object related to the structured product. It could be used to link or reference additional information or documents associated with the structured product within the EHR software.   |
| Procedure..Products..DateTime    | List<DateTimeType>   | The DateTime member of List<DateTimeType> Type in the StructuredProductType Type is used to store information related to the date and time of an event or action recorded in the EHR software.   |
| Procedure..Products..IDs         | List<IDType>         | The IDs member of List<IDType> in the StructuredProductType Type is used to store unique identification information associated with the structured product. This could include identification numbers, codes, or other identifiers that are used for tracking or referencing the product within the electronic health record software. |
| Procedure..Products..Type        | CodedDescriptionType | The Type member of the CodedDescriptionType Type in the StructuredProductType is used to specify the type or category of a structured product.   |
| Procedure..Products..Description | CodedDescriptionType | The Description member of the CodedDescriptionType is used to provide a textual description or summary of  |

|                                      |                       |  |
|--------------------------------------|-----------------------|--|
|                                      |                       | the structured product.  |
| Procedure..Products..Status          | CodedDescriptionType  | The Status member of the CodedDescriptionType type is used to indicate the current status or condition of the structured product.  |
| Procedure..Products..Source          | List<SourceType>      | The Source member of the List<SourceType> Type in the StructuredProductType is used to identify the source of the structured product information, such as the organization or system from which the data originated.   |
| Procedure..Products..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of List<InternalCCRLink> Type is used to store information related to internal links within the Electronic Health Record (EHR) system. It consists of a unique LinkID and a list of LinkRelationships, which describe the relationship between the link and other elements within the EHR. The InternalCCRLinkSource property provides information about the source of the internal link. |
| Procedure..Products..ReferenceID     | List<String>          | The ReferenceID member of List<String> Type in the StructuredProductType is used to store reference IDs associated with the structured product. These reference IDs may be used to link the structured product to  |



|                                |                       |  |
|--------------------------------|-----------------------|--|
|                                |                       | external systems, documents, or entities for further reference or retrieval.   |
| Procedure..Products..CommentID | List<String>          | The CommentID member of List<String> Type is used to store any additional comments or notes related to the structured product in the StructuredProductType.  |
| Procedure..Products..Signature | List<IDTypeSignature> | The Signature member of List<IDTypeSignature> in the StructuredProductType type is used to store the signature ID associated with the structured product.  |
| Procedure..Substance           | CodedDescriptionType  | The Substance member of the CodedDescriptionType Type, which is a member of the ProcedureType Type, is used to describe the substance or drug associated with a medical procedure or test.   |
| Procedure..Method              | List<MethodType>      | The Method member of List<MethodType> Type is used to represent the method or technique used to perform a procedure. Each MethodType object contains information such as the method sequence position, multiple method modifiers, text description, object attributes, and codes related to the method. It provides additional details about how the procedure was carried out or the techniques utilized. |

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| Procedure..Method.                        | MethodType                                 | The MethodType member is used to store information about the method or technique used to perform a specific test or procedure in the healthcare setting.   |
| Procedure..Method..MethodSequencePosition | String                                     | The MethodSequencePosition member of type String within the MethodType class is used to represent the position or order of a method in a sequence or list. It may provide information about the ordering or sequencing of methods used in a medical procedure or test. |
| Procedure..Method..MultipleMethodModifier | CodedDescriptionType                       | The MultipleMethodModifier member of the CodedDescriptionType type in the MethodType type is used to describe any additional modifiers or attributes associated with a specific method used in a lab test or procedure.  |
| Procedure..Method..Text                   | String                                     | The Text member of String Type in the MethodType is used to store descriptive text that provides additional information about the method used for a particular result.   |
| Procedure..Method..ObjectAttribute        | List<CodedDescriptionType ObjectAttribute> | The ObjectAttribute member of List<CodedDescriptionType ObjectAttribute> in the MethodType class is used to store additional   |

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|   |                    | attributes or properties associated with an object related to the method being described. These attributes can include information such as the position or sequence of the method, multiple method modifiers, and any other relevant details or codes. |
| Procedure..Method..Code                       | List<CodeType>     | The Code member of the List<CodeType> Type is used to store a specific value associated with a code system and version. It is used to uniquely identify a particular method or procedure in the electronic health record (EHR) system.                 |
| Procedure..Position                           | List<PositionType> | The Position member of the List<PositionType> type in the ProcedureType type is used to specify the position or location of a particular procedure or action within the patient's body.  |
| Procedure..Position.                          | PositionType       | The member "PositionSequencePosition" in the PositionType class is used to specify the sequence or order in which the position is recorded or labeled in relation to a medical procedure or test.  |
| Procedure..Position..PositionSequencePosition | String             | The PositionSequencePosition member of String Type in the PositionType class is a field that represents the position sequence of a specific object or entity   |

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|---|--|--|
|   |  | within a medical context. It is used to indicate the order or sequence in which a particular object or entity is positioned or presented in the context of a medical procedure or examination.   |
| Procedure..Position..MultiplePositionModifier | CodedDescriptionType                       | The MultiplePositionModifier member in the PositionType Type is used to describe any modifiers or additional attributes associated with a specific position within a medical procedure or test. It provides additional information about the position that may impact the interpretation or implementation of the procedure or test. |
| Procedure..Position..Text                     | String                                     | The Text member of the String Type within the PositionType Type is used to store the descriptive text associated with a specific position or location.   |
| Procedure..Position..ObjectAttribute          | List<CodedDescriptionType ObjectAttribute> | The ObjectAttribute member of the List<CodedDescriptionType ObjectAttribute> type in the PositionType class is used to store additional attributes or properties related to the object being described. These attributes may include additional information or characteristics that are not captured by the other                    |

|                           |                      |  |
|---------------------------|----------------------|--|
|                           |                      | properties in the class.   |
| Procedure..Position..Code | List<CodeType>       | The Code member of the List<CodeType> Type in the PositionType Type is used to represent a specific code value related to a position or location within a healthcare record.   |
| Procedure..Site           | List<SiteType>       | The Site member of the List<SiteType> type in the ProcedureType type is used to document the specific anatomical site or location on the patient's body where a procedure was performed or will be performed.  |
| Substance                 | CodedDescriptionType | The Substance member of CodedDescriptionType Type is used to represent a substance or ingredient related to a lab result.  |
| Test                      | List<TestType>       | The Test member of List<TestType> is used to store information about specific tests conducted as part of a lab result. It may include details such as the method used, the agent or substance being tested, the test results, the normal range, and any associated flags or confidence values. |
| Test.                     | TestType             | The member of TestType Type, which is a member of the List<TestType> Type, is used to store information about a specific medical test.   |

|                                   |                              |  |
|-----------------------------------|------------------------------|--|
| Test..Method                      | List<CodedDescriptionType>   | The Method member in the TestType class is used to store the different methods or techniques used to perform a specific test.  |
| Test..Agent                       | List<Agent>                  | The Agent member in the List<Agent> type within the TestType type is used to represent the agents involved in a specific medical test. These agents can include structured products, environmental agents, problems, procedures, and other test results. |
| Test..Agent.                      | Agent                        | The member of the Agent Type, which is a member of the List<Agent> Type, is used to store information related to lab test results for a patient.   |
| Test..Agent..Products             | List<StructuredProductType>  | The Products member of the List<StructuredProductType> type in the Agent type is used to store information about the medical products or medications associated with a patient's health record in an EHR software.                                       |
| Test..Agent..EnvironmentalAgents  | List<CCRCodedDataObjectType> | The EnvironmentalAgents member of the Agent Type is used to store information about environmental agents or exposures that may have an impact on a patient's health.   |
| Test..Agent..EnvironmentalAgents. | CCRCodedDataObjectType       | The member of CCRCodedDataObjectType   |

|                         |                     |  |
|-------------------------|---------------------|--|
|                         |                     | type within the List<CCRCodedDataObjectType> type is used to store coded data related to a specific CCR data object. It includes information such as date and time, IDs, type, description, status, source, internal CCR links, reference IDs, comment IDs, and signatures.    |
| Test..Agent..Problems   | List<ProblemType>   | The Problems member of List<ProblemType> Type is used to store and manage the health-related issues or conditions experienced by a patient. It includes information such as the type and description of the problem, status, source, and date/time of diagnosis or occurrence. |
| Test..Agent..Procedures | List<ProcedureType> | The Procedures member of type List<ProcedureType> in the Agent type is used to store information about medical procedures performed on a patient.  |
| Test..Agent..Results    | List<ResultType>    | The Results member of the List<ResultType> Type is used to store a collection of lab results for a patient.  |
| Test..Agent..Results.   | ResultType          | The member of ResultType Type, which is a member of the List<ResultType> Type, is used to store information about a specific lab test result, such as the procedure performed, the substance tested, the date and time of the test, the  |

|                        |                |   |
|------------------------|----------------|---|
|                        |                | type and description of the test, the status of the result, the source of the result, any internal links to related CCR data, reference and comment IDs, and any signatures associated with the result.                             |
| Test..TestResult       | TestResultType | The TestResult member of the TestResultType Type is used to store the result value of a specific test performed on a patient, along with its units of measurement and any additional codes or modifiers associated with the result. |
| Test..TestResult.Value | String         | The Value member of the String Type in the TestResultType Type is used to store the actual result value of a specific test conducted in an Electronic Health Record (EHR) software.   |
| Test..TestResult.Units | RateTypeUnits  | The Units member of RateTypeUnits Type represents the unit of measurement for a test result in the EHR software.  |
| Test..TestResult.Code  | List<CodeType> | The Code member of the List<CodeType> type is used to store a code value that represents a specific test result. It may contain information such as a unique identifier or classification code for the test result.                 |



|   |                            |   |
|---|----------------------------|---|
| Test..TestResult.Description            | List<CodedDescriptionType> | The Description member of List<CodedDescriptionType> Type in the TestResultType Type is used to provide a text description of the test result.                                  |
| Test..TestResult.ResultSequencePosition | String                     | The ResultSequencePosition member of String Type in the TestResultType is used to indicate the position or order of the result within a sequence of test results.               |
| Test..TestResult.VariableResultModifier | CodedDescriptionType       | The VariableResultModifier member of the CodedDescriptionType Type within the TestResultType Type is used to provide additional details or modifiers for the test result value. |
| Test..NormalResult                      | List<NormalType>           | The NormalResult member is used to store the normal result values and associated information for a specific test within the electronic health record (EHR) system.              |
| Test..NormalResult.                     | NormalType                 | The member of NormalType called "Description" is used to store the description or name of the normal value associated with a test result in an EHR software.                    |
| Test..NormalResult..Description         | CodedDescriptionType       | The Description member of the CodedDescriptionType Type in the NormalType Type is used to store a text description or label of the  |

|   |                      |  |
|---|----------------------|--|
|   |                      | normal result value for the specific test or procedure.  |
| Test..NormalResult..Type                  | CodedDescriptionType | The Type member of the CodedDescriptionType Type in the NormalType is used to provide a coded description or classification for the normal value of a test result.   |
| Test..NormalResult..Value                 | String               | The Value member of the String Type in the NormalType Type is used to store the measured value or result of a specific test or procedure.  |
| Test..NormalResult..Units                 | RateTypeUnits        | The Units member of the RateTypeUnits Type in the NormalType Type is used to define the unit of measurement associated with a specific rate value.   |
| Test..NormalResult..Code                  | List<CodeType>       | The Code member of the List<CodeType> Type in the NormalType Type is used to specify a specific code value that represents a particular concept or category in the healthcare domain. It includes information such as the code value itself, the coding system used, and the version of the coding system. |
| Test..NormalResult..ValueSequencePosition | String               | The ValueSequencePosition member of type String in the NormalType class is used to indicate the position or order of a specific value within a sequence of values. It  |

|  |                       |  |
|--|-----------------------|--|
|  |                       | provides information on the relative position of the value within the sequence, allowing for better organization and interpretation of the data.   |
| Test..NormalResult..VariableNormalModifier | CodedDescriptionType  | The VariableNormalModifier member of CodedDescriptionType Type in the NormalType Type is used to provide additional information or modify the normal range or value of a specific variable or measurement. It may allow for customization or adjustment of the normal range based on specific factors or conditions relevant to the variable being measured. |
| Test..NormalResult..Source                 | List<SourceType>      | The Source member of the List<SourceType> Type in the NormalType Type is used to specify the source or origin of the data for the normal value. It provides information about the entity or system that generated or provided the data.  |
| Test..NormalResult..InternalCCRLink        | List<InternalCCRLink> | The InternalCCRLink member of the NormalType type is used to store information about internal links within the CCR (Continuity of Care Record) document. These links may point to other sections or elements within the CCR document, allowing for   |

|                                 |                            |   |
|---------------------------------|----------------------------|---|
|                                 |                            | easy navigation and reference between different parts of the record.  |
| Test..NormalResult..ReferenceID | List<String>               | The ReferenceID member in the List<String> Type of the NormalType Type is used to store the unique identifier(s) or reference(s) to related data or resources within the EHR software.  |
| Test..NormalResult..CommentID   | List<String>               | The CommentID member of the List<String> Type in the NormalType Type is used to store unique identifiers or references to comments associated with the specific normal result.  |
| Test..NormalResult..Signature   | List<IDTypeSignature>      | The Signature member of List<IDTypeSignature> in the NormalType type is used to store the electronic signature associated with the normal result.   |
| Test..Flag                      | List<CodedDescriptionType> | The Flag member of the List<CodedDescriptionType> Type in the TestType Type is used to indicate a specific attribute or characteristic associated with a test result, such as an abnormality, critical value, or sensitivity level. |
| Test..ConfidenceValue           | CodedDescriptionType       | The ConfidenceValue member of the CodedDescriptionType Type is a measure of the level of confidence or certainty associated with the test result being reported. It   |

|                       |                      |  |
|-----------------------|----------------------|--|
|                       |                      | provides additional information about the reliability or validity of the test result.  |
| Test..CCRDataObjectID | String               | The CCRDataObjectID member is a unique identifier assigned to a specific test result within the EHR software. It is used to uniquely identify and reference the test result data object within the EHR system.   |
| Test..DateTime        | List<DateTimeType>   | The DateTime member of the List<DateTimeType> Type in the TestType Type is used to represent date and time information associated with a specific test.  |
| Test..IDs             | List<IDType>         | The IDs member of List<IDType> in the TestType Type is used to store various identification information related to the test. This can include unique identifiers, such as test result IDs or tracking numbers, along with additional metadata such as the type of identification and the source or issuer of the identification. |
| Test..Type            | CodedDescriptionType | The Type member of the CodedDescriptionType type in the TestType type is used to store the type or category of the test being performed.   |
| Test..Description     | CodedDescriptionType | The Description member of the CodedDescriptionType   |

|                       |                       |   |
|-----------------------|-----------------------|---|
|                       |                       | is used to provide a textual description or explanation of a specific test or result in the EHR software.   |
| Test..Status          | CodedDescriptionType  | The Status member of CodedDescriptionType Type in the TestType Type is used to indicate the current status or condition of a test result.   |
| Test..Source          | List<SourceType>      | The Source member of the List<SourceType> Type in the TestType is used to indicate the source or origin of the test result data in the electronic health record (EHR). It provides information about the entity or system that generated or provided the test result, such as a laboratory or a medical device. |
| Test..InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of the TestType type is used to establish links or relationships between different sections or components within the CCR data. It allows for referencing and connecting related information within the EHR software.   |
| Test..ReferenceID     | List<String>          | The ReferenceID member in the TestType Type is used to store a list of unique identifiers or references related to the test. These identifiers could represent external systems or records that are associated with the   |

|                 |                       |   |
|-----------------|-----------------------|---|
|                 |                       | specific test.  |
| Test..CommentID | List<String>          | The CommentID member of the TestType Type is used to store the unique identifiers of comments related to the test result.   |
| Test..Signature | List<IDTypeSignature> | The Signature member of List<IDTypeSignature> in the TestType Type is used to store the electronic signature ID associated with the test result.  |
| CCRDataObjectID | String                | The CCRDataObjectID member of String Type in the ResultType is used as a unique identifier for the CCR data object.   |
| DateTime        | List<DateTimeType>    | The DateTime member of the List<DateTimeType> Type in the ResultType Type is used to store various date and time-related information related to the lab result.   |
| IDs             | List<IDType>          | The IDs member of List<IDType> Type in the ResultType Type is used to store the identification information associated with the lab result. It includes the date and time of the identification, the type of identification, the ID value, and additional details such as the issuer and the source. |
| Type            | CodedDescriptionType  | The Type member of CodedDescriptionType Type is used to store the type or   |

|                 |                       |  |
|-----------------|-----------------------|--|
|                 |                       | category of a result, such as a lab test or procedure, in an electronic health record (EHR) system.  |
| Description     | CodedDescriptionType  | The Description member of the CodedDescriptionType Type in the ResultType Type is used to provide a text description associated with a specific result or observation in the electronic health record (EHR) software.  |
| Status          | CodedDescriptionType  | The Status member of the CodedDescriptionType in the ResultType type is used to indicate the status of the lab result, such as whether it is pending, in progress, completed, or canceled.   |
| Source          | List<SourceType>      | The Source member of the List<SourceType> type is used to store information about the source or origin of the lab result data. It may include details such as the description of the source, the actor or entity responsible for the lab result, the date and time of the result, and any associated reference or comment IDs. |
| InternalCCRLink | List<InternalCCRLink> | The InternalCCRLink member of List<InternalCCRLink> is used to store links to other CCR (Continuity of Care Record) documents within the EHR software. These links can be used to  |



|             |                       |  |
|-------------|-----------------------|--|
|             |                       | reference related information or provide additional context for the lab results in the ResultType.   |
| ReferenceID | List<String>          | The ReferenceID member of type List<String> in the ResultType is used to store reference IDs associated with the lab results.                      |
| CommentID   | List<String>          | The CommentID member of the List<String> Type in the ResultType Type is used to store additional comments or notes related to the lab result.      |
| Signature   | List<IDTypeSignature> | The Signature member of the List<IDTypeSignature> type in the ResultType type is used to store the signatures associated with the lab result CCRs. |

## Formulary - "ehr\_file" CSV Export

The ehr\_file table is used to store Formularys in an Electronic Health Record (EHR) system. It contains information such as the patient ID, the type of formulary, the date it was recorded, the actual formulary data, and details about its last modification. It also includes the ID of the employee who uploaded the formulary and the ID of the location where it was uploaded. This table is used to keep track of and retrieve different types of formularys for patients within the EHR system.

| Column Name                 | Data Type                   | Description  | Extraction Method               |
|-----------------------------|-----------------------------|--|---------------------------------|
| fid                         | int                         | The fid column is a unique identifier for each record in the ehr_file table.   | CSV                             |
| acctid                      | int                         | The acctid column in the ehr_file table is the unique patient ID from the patients table.  | CSV                             |
| type                        | int                         | The type column represents the type of file stored in the EHR system.  | CSV                             |
| datet                       | datetime<br>default<br>NULL | The 'datet' column in the 'ehr_file' table is a datetime column that stores the date and time when the file was created or modified.   | CSV                             |
| data                        | longblob                    | The `data` column stores arbitrary binary data.  | CSV + Binary<br>Deserialization |
| last_modified_datetime      | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the data in the row was last modified.   | CSV                             |
| empid                       | int                         | The empid column is the unique employee ID from the 'employees' table.   | CSV                             |
| ident_pat_edu_rsrc          | tinyint                     | The ident_pat_edu_rsrc column indicates whether the patient has been identified as requiring educational resources. It is a boolean flag that is set to 1 if the patient needs educational resources and 0 if not. | CSV                             |
| ident_pat_edu_rsrc_datetime | datetime<br>default         | The ident_pat_edu_rsrc_datetime column is the date and time when the identification of a   | CSV                             |

|                       |                             |   |     |
|-----------------------|-----------------------------|---|-----|
|                       | NULL                        | patient's educational resource was last modified.   |     |
| locid                 | int                         | The locid column represents the unique ID of the location where the EHR file is associated with.                          | CSV |
| uploaded_pat          | tinyint                     | The uploaded_pat column indicates whether the file has been successfully uploaded for the associated patient.             | CSV |
| uploaded_pat_datetime | datetime<br>default<br>NULL | The uploaded_pat_datetime column represents the date and time when the file was uploaded for the patient.                 | CSV |
| insert_guid           | varchar                     | The insert_guid column is a unique identifier that is used to track and identify a specific record in the ehr_file table. | CSV |
| created_datetime      | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the record was created in the ehr_file table.                   | CSV |
| sub_type              | int                         | The sub_type column represents a specific subcategory or classification within the type column.                           | CSV |

## Formulary Type

The Formulary Type is used to store a list of medication orders within an electronic health record (EHR) system. It is utilized to manage and track the prescribed medications for a patient, providing relevant information such as dosage, frequency, and duration of use. A Formulary is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name            | Type                  | Description   |
|------------------------|-----------------------|---|
|                        | Formulary             | The "Medication" member of the Formulary Type in the EHR software is used to store a list of medication orders for a patient.   |
| Medication             | List<MedicationOrder> | The Medication member of the List<MedicationOrder> Type in the Formulary Type is used to store information about the medications prescribed to a patient. It includes details such as refills, fill amount, drug information, dosage directions, and any notes or additional information related to the medication order. |
| Medication.            | MedicationOrder       | The member "Notes" in the MedicationOrder type is used to store any additional notes or comments related to the medication order.   |
| Medication..Refills    | Int32                 | The Refills member of type Int32 in the MedicationOrder class represents the number of times a medication can be refilled by the patient.   |
| Medication..FillAmount | Amount                | The FillAmount member of the Amount Type in the MedicationOrder Type is used  |

|                              |            |   |
|------------------------------|------------|---|
|                              |            | to specify the amount of medication that should be dispensed for a particular medication order.   |
| Medication..FillAmount.Value | Decimal    | The Value member of the Decimal Type in the Amount Type represents a numerical value that is used to quantify a measurement or quantity related to medication in an Electronic Health Record (EHR) software.  |
| Medication..FillAmount.Units | String     | The Units member of String Type in the Amount Type is used to specify the unit of measurement for the Value member in the context of medication dosages or other healthcare-related quantitative values.  |
| Medication..Drug             | Medication | The Drug member of the Medication Type is used to store information about a specific medication, including its brand name, generic name, ingredients, strength, form, route, and any additional notes or free text information related to the medication. |
| Medication..Drug.BrandName   | String     | The BrandName member of String Type in the Medication Type represents the brand name of a medication. It is used to store the specific name under which a medication is marketed by a pharmaceutical company.   |
| Medication..Drug.RxCode      | String     | The RxCode member of String Type in the Medication Type is used to store the prescription   |

|  |                            |   |
|--|----------------------------|---|
|  |                            | code for a medication.  |
| Medication..Drug.RxCodeValueSetCodeField | String                     | The RxCodeValueSetCodeField member of type String in the Medication class represents a code used to identify a specific value set for the RxCode field. It is used to categorize or classify medications based on a standardized set of codes, allowing for easier identification and reference within the electronic health record (EHR) software. |
| Medication..Drug.Ingredients             | List<MedicationIngredient> | The Ingredients member of the List<MedicationIngredient> type is used to store information about the ingredients present in a medication. It provides details such as the name and RxCode of each ingredient.   |
| Medication..Drug.Ingredients.            | MedicationIngredient       | The member of the MedicationIngredient type, which is a member of the List<MedicationIngredient> type, represents a specific ingredient of a medication. It contains the name and RxCode of the ingredient. This information is used in an EHR software to identify and document the ingredients of a medication prescribed for a patient.          |
| Medication..Drug.Ingredients..Name       | String                     | The Name member of String Type in the MedicationIngredient Type is used to store the name or description of the medication ingredient.  |

|                                      |        |   |
|--------------------------------------|--------|---|
| Medication..Drug.Ingredients..RxCode | String | The RxCode member of String type in the MedicationIngredient class is used to store the unique code or identifier associated with a specific medication. This code could be used to reference the medication in various systems or processes within the EHR software, such as ordering, dispensing, or billing. |
| Medication..Drug.Form                | String | The Form member of String Type in the Medication Type is used to store the form of the medication, such as tablet, capsule, or liquid.  |
| Medication..Drug.Route               | String | The Route member of String Type in the Medication Type is used to specify the method of administration or delivery of the medication, such as oral, intravenous, or topical.  |
| Medication..Drug.Generic             | String | The Generic member of String type in the Medication Type is used to represent the generic name of a medication.   |
| Medication..Drug.Strength            | Amount | The Strength member of the Amount type in the Medication type of the Formulary represents the strength or dosage of a medication. It specifies the numeric value and unit of measurement for the strength of the medication.  |
| Medication..Drug.FreeText            | String | The FreeText member of String Type in the Medication Type is used to store additional free-text information or notes related to the medication.   |

|                            |                   |  |
|----------------------------|-------------------|--|
| Medication..Drug.NotAClass | Boolean           | The NotAClass member of Boolean Type in the Medication Type is used to indicate whether the medication is classified as a class or not.                                    |
| Medication..ID             | String            | The ID member of String Type in the MedicationOrder class is used to uniquely identify a medication order within the EHR software.   |
| Medication..Type           | String            | The Type member of String Type in the MedicationOrder Type is used to indicate the type or category of medication prescribed, such as "tablet", "capsule", or "injection". |
| Medication..Site           | String            | The Site member of String Type in the MedicationOrder class is used to specify the location or site where the medication should be administered or dispensed.              |
| Medication..Form           | String            | The Form member of String Type in the MedicationOrder Type is used to store information about the pharmaceutical form or dosage form of a medication.                      |
| Medication..FreeText       | String            | The FreeText member in the MedicationOrder Type is used to store any additional free-text information or notes related to the medication order.                            |
| Medication..Directions     | List<MedOrderSIG> | The Directions member of the List<MedOrderSIG> type in the MedicationOrder class is used to store the instructions or  |



|   |             |   |
|---|-------------|---|
|   |             | directions for taking or administering a medication.  |
| Medication..Directions.                 | MedOrderSIG | The member of the MedOrderSIG type, which is a member of the List<MedOrderSIG> type, is used to store specific instructions for the administration of a medication. It includes information such as the rate at which the medication should be administered, the route of administration, the duration of administration, the amount given periodically, the site of administration, and any additional free text instructions. |
| Medication..Directions..Rate            | TimePeriod  | The Rate member of the TimePeriod type in the MedOrderSIG type is a value that represents the frequency or rate at which a specific event or action occurs within a certain time period. It is used in EHR software to determine the rate at which a medication should be administered or a specific action should be performed.  |
| Medication..Directions..Rate.Occurances | Int32       | The Occurances member of type Int32 in the TimePeriod type represents the number of times a specific event or occurrence is expected to happen within a given period. It is used to quantify the frequency or repetition of an event in the context of medication orders or other   |

|  |            |   |
|--|------------|---|
|  |            | healthcare-related activities.  |
| Medication..Directions..Rate.Period    | String     | The "Period" member of String Type in the TimePeriod Type is used to represent the time duration or interval associated with the occurrence of an event or activity in the context of electronic health record (EHR) software. It specifies the unit of time (e.g., days, weeks, months) for which the event or activity is repeated or measured. |
| Medication..Directions..Route          | String     | The Route member of type String in the MedOrderSIG class is used to store the route of administration of a medication order.  |
| Medication..Directions..Route2         | String     | The Route2 member of the MedOrderSIG type is a string variable that is used to capture additional information or details about the medication administration route specified in the Route member.   |
| Medication..Directions..Duration       | TimePeriod | The Duration member of the TimePeriod type is used to specify the duration of a medication order in terms of the number of occurrences and the time period for each occurrence.   |
| Medication..Directions..PeriodicAmount | Amount     | The PeriodicAmount member of the Amount type is a decimal value that represents a periodic amount of medication or treatment prescribed in a medication order. It is used to specify the frequency or dosage of a medication or   |

|                                  |         |   |
|----------------------------------|---------|---|
|                                  |         | treatment that needs to be administered at regular intervals.   |
| Medication..Directions..Site     | String  | The Site member of type string in the MedOrderSIG type is used to store information about the specific location on the patient's body where the medication is intended to be administered.  |
| Medication..Directions..FreeText | String  | The FreeText member of the String Type in the MedOrderSIG class is used to store any additional free-form text or notes related to a medication order, such as specific instructions or additional information provided by the healthcare provider. |
| Medication..AsWritten            | Boolean | The "AsWritten" member of Boolean type in the MedicationOrder class is used to indicate whether the prescription should be filled exactly as written by the healthcare provider, without any substitutions or changes.                              |
| Medication..ReasonDoneCode       | String  | The ReasonDoneCode member of String Type in the MedicationOrder class is used to indicate the reason why a medication order has been completed or fulfilled.  |
| Medication..ReasonNotDoneCode    | String  | The ReasonNotDoneCode member in the MedicationOrder type is used to indicate the reason why a medication order was not  |

|                   |        |   |
|-------------------|--------|---|
|                   |        | carried out or completed.   |
| Medication..Notes | String | The Notes member of the MedicationOrder type is used to store additional information or comments related to the medication order. |

## Medication History - "ehr\_file" CSV Export

The ehr\_file table is used to store medication histories for patients in an electronic health record (EHR) software system. Each medication history is associated with a specific patient, as indicated by the 'acctid' column, and includes information such as the type of medication, the date and time it was recorded ('datet' column), and the employee who entered the information ('empid' column). The table also includes additional columns for tracking the status of the medication history, such as whether it has been uploaded to the patient portal ('uploaded\_pat' column) and any related educational resources for the patient ('ident\_pat\_edu\_rsrc' column). Overall, the ehr\_file table serves as a central repository for storing and managing medication history information within the EHR system.

| Column Name            | Data Type                   | Description   | Extraction Method               |
|------------------------|-----------------------------|---|---------------------------------|
| fid                    | int                         | The fid column is a unique identifier for each record in the ehr_file table.  | CSV                             |
| acctid                 | int                         | The acctid column is the unique patient ID from the 'patients' table.   | CSV                             |
| type                   | int                         | The type column represents the type of the EHR file.  | CSV                             |
| datet                  | datetime<br>default<br>NULL | The datet column stores the date and time when the file was created or last modified.                                   | CSV                             |
| data                   | longblob                    | The data column in the ehr_file table stores the actual data of the electronic health record file.                      | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time of the most recent modification made to the ehr_file record. | CSV                             |
| empid                  | int                         | The empid column in the ehr_file table represents the unique employee ID from the employees table.                      | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column is a boolean flag indicating whether the file is identified                               | CSV                             |

|                             |                             |  |     |
|-----------------------------|-----------------------------|--|-----|
|                             |                             | as a patient education resource.   |     |
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column stores the datetime when the identification of patient education resources was last updated for the file. | CSV |
| locid                       | int                         | The locid column represents the unique ID of the location where the EHR file is associated with.   | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been successfully uploaded for the patient.   | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the data in the file was uploaded by the patient.                                 | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier generated during the insertion of a record in the ehr_file table.                                  | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the record was created in the ehr_file table.  | CSV |
| sub_type                    | int                         | The sub_type column is an integer column that represents a specific subtype or category associated with the file in the ehr_file table.          | CSV |

## BasicOrder Type

The BasicOrder type appears to be a class that represents a basic order for a medication or laboratory test within an Electronic Health Record (EHR) system. It contains properties such as the ID of the performing laboratory, the ID of the provider, the status of the order, the order ID, the name of the medication or test, the date of the order, and other related information. It also includes lists for notes and observation requests associated with the order. Overall, the BasicOrder type is used to store and manage information about various types of orders within the EHR software. A BasicOrder is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name        | Type             | Description  |
|--------------------|------------------|--|
|                    | BasicOrder       | The "Notes" member of the BasicOrder Type is used to store additional information or comments related to the order.  |
| Lab                | Int32            | The Lab member of Int32 Type in the BasicOrder Type is used to store the identifier or code for the specific laboratory test being ordered or performed.   |
| PerformingLab      | OrganizationType | The PerformingLab member of the OrganizationType type in the BasicOrder type is used to store information about the laboratory or facility responsible for performing the specified order or test. |
| PerformingLab.Name | String           | The Name member of type String is used to  |

|                                  |                    |  |
|----------------------------------|--------------------|--|
|                                  |                    | store the name of an organization or entity within the EHR software.   |
| PerformingLab.ID                 | String             | The ID member of the String Type within the OrganizationType Type is used to store a unique identifier for the organization. This identifier may be used for data integration, record linkage, or identification purposes within the EHR software. |
| PerformingLab.IDType             | String             | The IDType member of the OrganizationType Type in the EHR software is used to specify the type of identification used for the organization, such as a National Provider Identifier (NPI) or a Tax Identification Number (TIN).                     |
| PerformingLab.TypeCode           | String             | The TypeCode member of the OrganizationType Type is used to indicate the type or category of the organization, such as a hospital, clinic, or laboratory.  |
| PerformingLab.AssigningAuthority | AssigningAuthority | The AssigningAuthority member of the AssigningAuthority Type is used to store information about the assigning authority responsible for  |



|  |             |   |
|--|-------------|---|
|  |             | assigning unique identifiers to organizations within the EHR software.  |
| PerformingLab.AssigningAuthority.NamespaceID | String      | The NamespaceID member of the AssigningAuthority type in the EHR software is a string that represents a unique identifier for a specific namespace or domain within the EHR system. It is used to identify and differentiate different sets of data or identifiers within the system. |
| PerformingLab.AssigningAuthority.UID         | String      | The UID member of String Type in the AssigningAuthority Type is used to uniquely identify the assigning authority within the EHR software system.   |
| PerformingLab.AssigningAuthority.UIDType     | String      | The UIDType member of String Type in the AssigningAuthority Type is used to specify the type of Unique Identifier (UID) being used, such as a specific format or standard, for identifying an entity within the EHR software.   |
| PerformingLab.Address                        | AddressType | The Address member of AddressType Type in the OrganizationType Type is used to store  |

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|  |        | the address information of a healthcare organization, such as the street, city, state, zip code, and country.  |
| PerformingLab.Address.Street           | String | The Street member of the AddressType Type is used to store the street address of a location within the EHR software.   |
| PerformingLab.Address.OtherDesignation | String | The OtherDesignation member in the AddressType class is used to store additional designations or labels that are not covered by the standard address elements (Street, City, State, Zip, etc.). It provides a way to include any extra information related to the address, such as building numbers, floor numbers, or room numbers. |
| PerformingLab.Address.City             | String | The City member of the String Type in the AddressType is used to store the city name in an address record.   |
| PerformingLab.Address.State            | String | The State member of the String Type in AddressType is used to store the state or province for a given address.   |
| PerformingLab.Address.Zip              | String | The Zip member of type String in the   |

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|--|-----------|---|
|  |           | AddressType is used to store the ZIP code, which is a numerical code used in postal addresses to identify the specific geographic area for mail delivery.                 |
| PerformingLab.Address.Type             | String    | The Type member of String Type in the AddressType is used to indicate the type or category of the address, such as home, work, mailing, or billing.                       |
| PerformingLab.Address.Text             | String    | The Text member of the String Type in the AddressType is used to store additional textual information or details about the address.                                       |
| PerformingLab.Address.Country          | String    | The Country member of String Type in the AddressType Type is used to store the country name or code of a specific address in the electronic health record (EHR) software. |
| PerformingLab.Address.CountyParishCode | String    | The CountyParishCode member is a code used to identify the county or parish associated with an address.   |
| PerformingLab.Phone                    | PhoneType | The Phone member of the PhoneType type is used to store the phone number information of an organization in an EHR software system.  |

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| PerformingLab.Phone.AreaCode | String | The AreaCode member of type String in the PhoneType class is used to store the area code of a phone number associated with a contact.  |
| PerformingLab.Phone.Number   | String | The Number member of the PhoneType Type is used to store the numerical portion of a phone number associated with a contact or organization in an electronic health record (EHR) system.  |
| ProviderEmpID                | Int32  | The ProviderEmpID member of type Int32 in the BasicOrder class is used to store the unique identifier or employee ID of the healthcare provider associated with the order. This is used to track and identify the provider who placed the order within the EHR software. |
| Type                         | String | The String Type member in the BasicOrder Type is used to store a string value associated with the order. It could be used to store information such as the name of the ordered item, a description, or any other relevant string data related to                         |

|                   |        |   |
|-------------------|--------|---|
|                   |        | the order.  |
| Status            | String | The Status member in the BasicOrder Type is used to indicate the current status or progress of the order, such as whether it is pending, in progress, completed, or canceled. It provides information on the state of the order within the EHR software system.                                 |
| OrderID           | String | The OrderID member of String Type in the BasicOrder Type is used to uniquely identify an order within the EHR software system.  |
| FillerOrderNumber | String | The FillerOrderNumber member of the BasicOrder Type is a string that is used to uniquely identify and track an order within the EHR system. It may serve as a reference number or identifier for the order, allowing for easy retrieval and association with other relevant data and documents. |
| Name              | String | The Name member of String Type in the BasicOrder Type is used to store the name or description of the medication or medical   |

|         |          |  |
|---------|----------|--|
|         |          | order.   |
| Item    | Object   | The Item member of the Object Type in the BasicOrder Type is used to store additional information or data related to the order. It is a generic object that allows for flexibility in storing various types of data specific to the order, such as additional details, custom parameters, or any other relevant information that may be required for processing the order in the EHR software. |
| Date    | DateTime | The Date member of the DateTime Type in the BasicOrder Type is used to represent the date when the order was created or entered into the electronic health record (EHR) system.  |
| EndDate | DateTime | The EndDate member of DateTime Type in the BasicOrder Type is used to indicate the date and time when an order or medication will end or expire. It is used to track the duration of an order or medication and to determine when it should no longer be active or applicable.   |

|                  |              |  |
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| LastModifiedDate | DateTime     | The LastModifiedDate member of DateTime Type in the BasicOrder Type is used to track the date and time when the BasicOrder was last modified in the electronic health record (EHR) system.   |
| Code             | String       | The Code member of String Type in the BasicOrder Type is used to store a code or identifier that represents the order or medication in the EHR software. It could be a unique identifier or a standardized code that is used for reference or integration with other systems or healthcare protocols.                                  |
| Notes            | List<String> | The Notes member of List<String> type in the BasicOrder represents a collection of textual information or comments related to the order. It is used to store additional details or instructions that are relevant to the order and may assist healthcare providers in understanding the context or specific requirements of the order. |
| Notes.           | String       | The member of String Type is used to store textual information in  |

|                          |                          |  |
|--------------------------|--------------------------|--|
|                          |                          | the form of a single string. It is used to store additional notes or comments related to the BasicOrder.   |
| ObsRequests              | List<ObservationRequest> | The ObsRequests member of List<ObservationRequest> Type in the BasicOrder Type is used to store a list of observation requests associated with a specific order. These observation requests may include information such as order numbers, service IDs, observation times, clinical information, providers, status, reasons for study, results, notes, specimen details, and other relevant data related to the order. |
| ObsRequests.             | ObservationRequest       | The member of the ObservationRequest Type is used to store information about a specific observation request within a list of observation requests.   |
| ObsRequests..OrderNumber | EntityIdentifier         | The OrderNumber member of EntityIdentifier Type in the ObservationRequest Type is used to identify and track the specific order or request made within the electronic  |



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|---------------------------------------|--------|--|
|                                       |        | health record (EHR) software system. It provides a unique identifier for the order, which can be used for reference, retrieval, and communication purposes.  |
| ObsRequests..OrderNumber.EntityID     | String | The EntityID member of String Type in the EntityIdentifier Type is used to store a unique identifier for the entity. It could be used to identify a specific patient, provider, or organization within the EHR system.               |
| ObsRequests..OrderNumber.EntityIDType | String | The EntityIDType member of the String Type in the EntityIdentifier Type is used to indicate the type or category of the entity identifier, such as a patient ID, provider ID, or facility ID.  |
| ObsRequests..OrderNumber.NamespaceID  | String | The NamespaceID member of the EntityIdentifier type is a string that represents the identifier namespace for the EntityID. It is used to distinguish different namespaces or systems that may assign unique identifiers to entities. |
| ObsRequests..OrderNumber.UID          | String | The UID member of the EntityIdentifier Type in the EHR software is   |

|                                  |                  |   |
|----------------------------------|------------------|---|
|                                  |                  | used to uniquely identify an entity, such as a patient or a healthcare provider.  |
| ObsRequests..OrderNumber.UIDType | String           | The UIDType member of type String in the EntityIdentifier class represents the type or format of the Unique Identifier (UID) associated with the entity. It is used to provide additional information about the UID, such as its structure or standard used for generating the UID. |
| ObsRequests..FillerOrderNumber   | EntityIdentifier | The FillerOrderNumber member of the EntityIdentifier Type is used to uniquely identify the order within the EHR software system. It is used as a reference to link the observation request to its corresponding order.  |
| ObsRequests..PlacerGroupNumber   | EntityIdentifier | The PlacerGroupNumber member of the EntityIdentifier Type in the ObservationRequest Type is used to uniquely identify a group or set of related orders or observations. It is used to organize and group together related orders or observations for                                |

|                                     |             |   |
|-------------------------------------|-------------|---|
|                                     |             | easier management and retrieval in the EHR software.  |
| ObsRequests..ServiceID              | HL7CodeType | The ServiceID member of the HL7CodeType Type in the ObservationRequest Type is used to represent the code and name of the specific service or test that is being requested or ordered in the EHR system.                |
| ObsRequests..ServiceID.Code         | String      | The Code member of String Type in the HL7CodeType Type is used to store the code associated with a specific medical concept or item. It is used for identification and classification purposes within the EHR software. |
| ObsRequests..ServiceID.Name         | String      | The Name member of String Type in the HL7CodeType Type is used to store the name associated with a specific HL7 code.   |
| ObsRequests..ServiceID.CodingSystem | String      | The CodingSystem member of String Type in the HL7CodeType Type is used to represent the coding system or classification system that is used to identify or categorize the code in the healthcare industry. It           |

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|--|--------|--|
|  |        | provides a standardized way to identify the origin or source of the code.  |
| ObsRequests..ServiceID.CodingSystemVersion   | String | The CodingSystemVersion member of String Type in the HL7CodeType Type is used to specify the version of the coding system being used to identify the code.   |
| ObsRequests..ServiceID.AlternateCode         | String | The AlternateCode member of type String in the HL7CodeType is used to store an alternative code or identifier for a specific medical concept or term. It may be used when multiple coding systems or versions are being used and allows for interoperability between different healthcare systems. |
| ObsRequests..ServiceID.AlternateName         | String | The AlternateName member of String Type in the HL7CodeType Type is a field used to store an alternative name or label for the code. It is used to provide additional descriptive information or synonyms for the code.   |
| ObsRequests..ServiceID.AlternateCodingSystem | String | The AlternateCodingSystem member of the  |

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|---|----------|--|
|   |          | HL7CodeType is a string that represents an alternate coding system used for the code. It provides an alternative set of codes or terminology that can be used in place of the primary coding system when necessary.  |
| ObsRequests..ServiceID.AlternateCodingSystemVersion | String   | The AlternateCodingSystemVersion member of String Type in the HL7CodeType is used to store an alternate version of the coding system that is related to a specific code within the healthcare data. It allows for the inclusion of multiple versions of coding systems to ensure accurate and comprehensive data representation for different purposes or systems within the EHR software. |
| ObsRequests..ServiceID.OriginalText                 | String   | The OriginalText member of the String Type in the HL7CodeType is used to store the original text description or name associated with a code used in the EHR software.  |
| ObsRequests..ObsTime                                | DateTime | The ObsTime member of the DateTime Type in the ObservationRequest is   |

|                                |              |   |
|--------------------------------|--------------|---|
|                                |              | used to capture the time when the observation or test was performed.  |
| ObsRequests..ObsTimeEnd        | DateTime     | The ObsTimeEnd member of the DateTime Type in the ObservationRequest is used to represent the end time or date of an observation or study.  |
| ObsRequests..ClinicalInfo      | HL7CodeType  | The ClinicalInfo member of the HL7CodeType Type in the ObservationRequest Type is used to store clinical information related to the specific observation request. This information could include details about the patient's medical condition, symptoms, previous test results, or any other relevant clinical data that helps inform the purpose or context of the observation. |
| ObsRequests..Provider          | ProviderType | The Provider member of the ProviderType type in the ObservationRequest type is a reference to the healthcare provider responsible for ordering or performing the observation request.   |
| ObsRequests..Provider.Provider | PersonType   | The Provider member of the PersonType type  |

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|--|----------|---|
|  |          | in the ProviderType type is used to store information about the healthcare provider associated with the order. This includes their personal details such as name, ID, address, contact information, and demographic information such as date of birth and gender.           |
| ObsRequests..Provider.Provider.Name            | NameType | The Name member of the NameType Type is used to store personal name information of a person, including their family name, surname, given name, second name or initial, suffix, and prefix. It is used to capture and display the full name of a person in the EHR software. |
| ObsRequests..Provider.Provider.Name.FamilyName | String   | The FamilyName member of String Type in the NameType Type is used to store the family or last name of a person.   |
| ObsRequests..Provider.Provider.Name.Surname    | String   | The Surname member of type String within the NameType Type represents the last name or family name of a person. It is used to store the surname information of an individual in the context of an electronic health   |

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|---|--------|--|
|   |        | record (EHR) software system.  |
| ObsRequests..Provider.Provider.Name.GivenName           | String | The GivenName member of String Type in the NameType Type is used to store the given name or first name of a person.  |
| ObsRequests..Provider.Provider.Name.SecondNameOrInitial | String | The SecondNameOrInitial member of String Type in the NameType Type is used to store the second name or initial of a person's name.   |
| ObsRequests..Provider.Provider.Name.Suffix              | String | The Suffix member of the String Type in the NameType Type is used to store the suffix (e.g., Jr., Sr., III) of a person's name.  |
| ObsRequests..Provider.Provider.Name.Prefix              | String | The Prefix member of the String Type, which is a member of the NameType Type, is used to represent the prefix or title (such as "Mr." or "Dr.") that precedes a person's name in the EHR software. |
| ObsRequests..Provider.Provider.Name.NameTypeCode        | String | The NameTypeCode member in the NameType type is used to identify the type or category of the name, such as "legal name" or "preferred name".   |
| ObsRequests..Provider.Provider.ID                       | String | The ID member of   |



|   |                    |  |
|---|--------------------|--|
|   |                    | String Type in the PersonType Type is used to store a unique identification value for the person. It is used to assign a specific identifier to a patient or healthcare provider within the EHR software system.   |
| ObsRequests..Provider.Provider.IDType             | String             | The IDType member of String Type in the PersonType Type is used to specify the type or format of the identifier (ID) for a person. It could indicate whether the ID is a social security number, driver's license number, passport number, or any other type of unique identifier for a person.  |
| ObsRequests..Provider.Provider.AssigningAuthority | AssigningAuthority | The AssigningAuthority member of the AssigningAuthority Type is used to identify the authority responsible for assigning unique identifiers (IDs) to individuals within the EHR software. It includes information such as the namespace ID, UID, and UID type, which help in managing and communicating patient identification across different systems and organizations. |

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| ObsRequests..Provider.Provider.Address     | AddressType | The Address member of the AddressType Type is a property that represents the physical address of a person in the EHR software. It includes details such as street, city, state, zip code, and country where the person resides. It is used to store and display the location information of the person in the EHR record. |
| ObsRequests..Provider.Provider.PhoneNumber | PhoneType   | The PhoneNumber member of the PhoneType Type is used to store the phone number of a person in the EHR software.   |
| ObsRequests..Provider.Provider.DateOfBirth | DateTime    | The DateOfBirth member of the PersonType Type in the EHR software is used to store the date of birth of a person, which is typically used to determine their age and calculate age-related healthcare considerations.   |
| ObsRequests..Provider.Provider.Gender      | String      | The Gender member of type String in the PersonType class is used to store the gender information of a person.   |
| ObsRequests..Provider.Provider.Race        | HL7CodeType | The Race member of the HL7CodeType is used to represent the   |

|  |                    |  |
|--|--------------------|--|
|  |                    | race or ethnicity of a person in the EHR software.   |
| ObsRequests..Provider.Provider.Notes     | List<String>       | The Notes member of List<String> Type in the PersonType is used to store additional textual information or comments related to the person's profile or medical history.                            |
| ObsRequests..Provider.AssigningAuthority | AssigningAuthority | The AssigningAuthority member of the AssigningAuthority Type is used to store the namespace ID, universal ID (UID), and UID type of the assigning authority associated with a healthcare provider. |
| ObsRequests..Provider.Empid              | Int32              | The Empid member of type Int32 in the ProviderType type is used to store the employee ID of the healthcare provider associated with the medication history order.                                  |
| ObsRequests..StatusTime                  | DateTime           | The StatusTime member of DateTime Type in the ObservationRequest Type is used to store the date and time when the status of the observation request was last updated or changed.                   |

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| ObsRequests..Status           | String                  | The Status member of type String in the ObservationRequest class is used to represent the current status of the observation request.  |
| ObsRequests..reasonsForStudy  | List<HL7CodeType>       | The reasonsForStudy member of List<HL7CodeType> is used to store the reasons for ordering a specific laboratory test or diagnostic study in an electronic health record (EHR) system.   |
| ObsRequests..reasonsForStudy. | HL7CodeType             | The member of the HL7CodeType type in the List<HL7CodeType> type is used to store and represent different codes, such as lab test codes or medication codes, along with their associated information like code name, coding system, coding system version, alternate code, alternate name, alternate coding system, alternate coding system version, and original text. This allows for standardized representation and exchange of coded data within the EHR software. |
| ObsRequests..Results          | List<ObservationResult> | The Results member of the List<ObservationResult> type within the   |

|  |                   |  |
|--|-------------------|--|
|  |                   | ObservationRequest type is used to store the observation results for a particular order or request made by a provider.   |
| ObsRequests..Results.                    | ObservationResult | The member of the ObservationResult Type, which is a member of the List<ObservationResult> Type, is used to store the results of a specific observation or test performed as part of a patient's medication history.   |
| ObsRequests..Results..ParentType         | ParentType        | The ParentType member of the ParentType Type is used to specify the type of parent object to which the ObservationResult belongs. It indicates whether the ObservationResult is associated with an Immunization or an ObservationRequest in the electronic health record (EHR) software. |
| ObsRequests..Results..ParentType.value__ | Int32             | The value__ member of the Int32 Type in the ParentType Type is an internal value that represents the underlying numeric value of the ParentType enum. It is used for internal processing and comparisons within the  |

|   |            |  |
|---|------------|--|
|   |            | EHR software.  |
| ObsRequests..Results..ParentType.None               | ParentType | The None member of the ParentType enum is used to indicate that there is no parent type associated with a given object or entity in the electronic health record (EHR) software. It signifies that the object or entity is not a child or dependent of any other specific type within the EHR system.      |
| ObsRequests..Results..ParentType.Immunization       | ParentType | The Immunization member of the ParentType Type is used to represent immunization data in an electronic health record (EHR) software. It may contain information about the type of immunization administered, the date it was given, the provider who administered it, and any additional relevant details. |
| ObsRequests..Results..ParentType.ObservationRequest | ParentType | The ObservationRequest member of the ParentType Type is used to store information related to a specific observation request made in an electronic health record (EHR) software. It contains details such as the type of observation  |

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|  |          | requested, any specific instructions or requirements, and references to related data or documentation.  |
| ObsRequests..Results..AssignedCodeType         | CodeType | The AssignedCodeType member of the CodeType Type in the ObservationResult Type is used to specify the type of code assigned to an observation result. It is used in the context of EHR software to categorize and identify the specific code system or terminology used for the observation result. |
| ObsRequests..Results..AssignedCodeType.value__ | Int32    | The value__ member of the Int32 Type in the CodeType Type is used to represent the code type value for a specific medication or medical order in an Electronic Health Record (EHR) system.  |
| ObsRequests..Results..AssignedCodeType.None    | CodeType | The None member of the CodeType type is used to represent a code that does not have any specific type or category associated with it. It is used in the context of medication history in an EHR software to indicate that a medication order or record does not have a specific code assigned       |

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|---|-----------------------------|--|
|   |                             | to it.   |
| ObsRequests..Results..AssignedCodeType.ELLKAY | CodeType                    | The ELLKAY member of CodeType represents a specific code or identifier related to ELLKAY within the EHR software. It is used to identify specific information or functionality related to ELLKAY, which is a third-party integration or service utilized by the EHR software.  |
| ObsRequests..Results..IdentifierSelectionType | Nullable<CodeSelectionType> | The IdentifierSelectionType member of Nullable<CodeSelectionType> Type in the ObservationResult Type is used to indicate the type of code selection method used for identifying the observation result. It is used in conjunction with other members of the ObservationResult Type to provide additional information about the result. |
| ObsRequests..Results..ValueType               | String                      | The ValueType member of type String is used to define the data type of the value stored in the ObservationResult. It indicates the format or interpretation of the value, such as whether it is a numeric value, a text value, or a coded value. It helps in   |



|                                |             |  |
|--------------------------------|-------------|--|
|                                |             | correctly interpreting and processing the value in electronic health record (EHR) software.  |
| ObsRequests..Results..ObsID    | HL7CodeType | The ObsID member of HL7CodeType Type in the ObservationResult Type represents the unique identifier for an observation or test performed in the electronic health record (EHR) system. It is used to identify and differentiate different types of observations and tests in the EHR data. |
| ObsRequests..Results..ObsSubID | String      | The ObsSubID member is a string value used to identify a specific sub-observation within a larger observation. It serves to provide additional or more detailed information about a particular aspect of the observation being recorded in the EHR software.                               |
| ObsRequests..Results..Value    | String      | The Value member of String Type in the ObservationResult Type is used to store the actual value or result of the observation or test performed.  |
| ObsRequests..Results..Units    | HL7CodeType | The Units member of the HL7CodeType Type   |

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|--------------------------------------|--------|--|
|                                      |        | in the ObservationResult Type is used to represent the units of measurement for a specific observation result.   |
| ObsRequests..Results..ReferenceRange | String | The ReferenceRange member of type String in the ObservationResult class is used to store the reference range values for a specific observation. It represents the range of values within which a particular result is considered normal or expected. This information helps healthcare providers in interpreting the observed value and determining if it falls within the expected range. |
| ObsRequests..Results..Flag           | String | The Flag member of type String in the ObservationResult class is used to indicate any abnormality or noteworthy result related to the observation.   |
| ObsRequests..Results..Status         | String | The "Status" member of type string in the "ObservationResult" class is used to indicate the status or condition of the observation result.   |

|   |                  |  |
|---|------------------|--|
| ObsRequests..Results..ObsTime               | DateTime         | The ObsTime member of the DateTime Type in the ObservationResult Type represents the timestamp or date and time when the observation was made or recorded in the EHR software.                               |
| ObsRequests..Results..AnalysisTime          | DateTime         | The AnalysisTime member of DateTime Type in the ObservationResult Type is used to indicate the time at which the analysis or testing of the observation result was performed by the performing organization. |
| ObsRequests..Results..PerformingOrg         | OrganizationType | The PerformingOrg member of OrganizationType is used to store information about the organization that performed the observation or test requested in the ObservationResult.                                  |
| ObsRequests..Results..PerformingOrgDirector | PersonType       | The PerformingOrgDirector member of the PersonType Type in the ObservationResult Type is used to store information about the director or person responsible for the performing organization.                 |

|  |              |  |
|--|--------------|--|
| ObsRequests..Results..Notes                | List<String> | The Notes member of List<string> type in the ObservationResult class is used to store additional information or comments related to the observation result. It is used to capture any relevant notes or details that may be important for interpreting or documenting the result, such as any observations or findings that are not explicitly captured by other properties or elements of the ObservationResult type. |
| ObsRequests..Results..AbnormalFlags        | List<HL7_ID> | The AbnormalFlags member of the List<HL7_ID> type in the ObservationResult class is used to store any abnormal flags associated with the observation result. These flags indicate any abnormal or unusual findings in the observation data.  |
| ObsRequests..Results..AbnormalFlags.       | HL7_ID       | The member "value" of the HL7_ID type is used to store the value of an HL7 identifier. It is used within the List<HL7_ID> type to represent a list of HL7 identifier values.   |
| ObsRequests..Results..AbnormalFlags..value | String       | The value member of the String Type in the HL7_ID Type is used to  |

|   |          |   |
|---|----------|---|
|   |          | store the actual value or identifier of an HL7 identifier. It is typically used to uniquely identify a specific entity or element within an electronic health record (EHR).   |
| ObsRequests..Results..AbnormalFlags..complete | Boolean  | The complete member of the Boolean Type in the HL7_ID Type is used to indicate if the value of the HL7 ID is complete or not. It is a boolean flag that signifies whether all the necessary information for the HL7 ID is present or if there are missing components. |
| ObsRequests..Results..NatureOfAbnormalTest    | HL7_ID   | The NatureOfAbnormalTest member of the HL7_ID Type is used to specify the nature or type of abnormal test result for a particular observation in the ObservationResult Type.  |
| ObsRequests..Results..DataLastObsNormalValues | DateTime | The DataLastObsNormalValues member of the DateTime Type in the ObservationResult Type is used to store the date and time when the most recent normal values for the observation were observed.  |

|  |         |  |
|--|---------|--|
| ObsRequests..Results..DataLastObsNormalValuesSpecified | Boolean | The DataLastObsNormalValuesSpecified member of Boolean Type in the ObservationResult Type is used to indicate whether the DataLastObsNormalValues property has been specified or not.  |
| ObsRequests..Results..ProducersId                      | HL7_CE  | The ProducersId member of the HL7_CE type in the ObservationResult type is used to identify the provider or organization that is responsible for producing or generating the observation result.   |
| ObsRequests..Results..ProducersId.identifier           | String  | The identifier member of the String Type in the HL7_CE Type is used to store a unique identifier for a specific code or value within a coding system. It is used to uniquely identify and reference a specific code or value in order to ensure accurate and consistent data exchange within the EHR software. |
| ObsRequests..Results..ProducersId.text                 | String  | The text member of the String Type in the HL7_CE Type is used to store the textual representation of a code or identifier. It provides a human-readable description or label for the code or   |

|   |        |   |
|---|--------|---|
|   |        | identifier.   |
| ObsRequests..Results..ProducersId.codingSystem        | String | The `codingSystem` member is a string that represents the coding system or terminology used for the identifier or text in the HL7_CE type. It is used to identify the specific standardized coding system or vocabulary that is being referenced for the identifier or text value. This allows for consistent and structured communication and interpretation of medical information within the EHR software. |
| ObsRequests..Results..ProducersId.alternateIdentifier | String | The alternateIdentifier member of the HL7_CE Type is a string value that represents an alternative identifier for a particular code or concept. It is used to provide additional identification or context for the code in the EHR software.  |
| ObsRequests..Results..ProducersId.alternateText       | String | The alternateText member of the HL7_CE Type is a string that represents an alternative text or description for a specific identifier. It is used to provide additional information or clarification about   |

|   |          |   |
|---|----------|---|
|   |          | the identifier in cases where the primary text may not be sufficient or clear.  |
| ObsRequests..Results..ProducersId.alternateCodingSystem | String   | The alternateCodingSystem member of String Type in the HL7_CE Type is used to provide an alternate coding system for the identifier in the context of electronic health records (EHR) software.   |
| ObsRequests..Results..ProducersId.complete              | Boolean  | The complete member of the Boolean Type in the HL7_CE Type is used to indicate whether the information in the HL7_CE object is complete or not. It is a flag that can be set to true or false, where true indicates that the information is complete and false indicates that it is not complete. |
| ObsRequests..Results..ResponsibleObserver               | Provider | The ResponsibleObserver member of the Provider Type in the ObservationResult Type is used to indicate the healthcare provider who is responsible for making the observation or recording the result.  |
| ObsRequests..Results..ResponsibleObserver.DataTypeField | DataType | The DataTypeField member in the DataType Type of the  |



|  |          |  |
|--|----------|--|
|  |          | Provider Type is used to indicate the type of data being stored or referenced by the Provider.   |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.<br>value__          | Int32    | The value__ member of Int32 Type in the DataType enum is used to represent the underlying integer value of the enum member.  |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.<br>.EnteredBy       | DataType | The EnteredBy member of DataType Type is used to store information about the person who entered or documented the order in the EHR system. It may include details such as the name, ID, or other identifying information of the user who performed the data entry. |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.<br>OrderingProvider | DataType | The OrderingProvider member of the DataType Type is used to store information about the healthcare provider who placed the order for a medication or test in the EHR software.   |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.<br>.AdminProvider   | DataType | The AdminProvider member of the DataType Type is used to store information about the healthcare provider who is responsible for  |

|   |                         |   |
|---|-------------------------|---|
|   |                         | administering the medication or treatment specified in the BasicOrder.  |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.AdminLocation | DataType                | The AdminLocation member of the DataType Type in the BasicOrder class represents the administrative location associated with the order. This location is typically the physical location where the order was administered or performed, such as a clinic, hospital, or laboratory.                  |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.None          | DataType                | The None member of the DataType enum in the BasicOrder class is used to represent a data type that is not specified or applicable in the context of the EHR software. It serves as a placeholder or default value when no specific data type is assigned or needed for a certain field or property. |
| ObsRequests..Results..ResponsibleObserver.Person                      | ExtendedCompositePerson | The Person member of the ExtendedCompositePerson type in the Provider type is used to store information about a healthcare provider's personal details such as their name, ID number, ID type, prefix, suffix,  |

|  |            |   |
|--|------------|---|
|  |            | and other identifying information.  |
| ObsRequests..Results..ResponsibleObserver.Person.IdNumber          | String     | The IdNumber member of type string is used to store a unique identifier for an individual, such as a patient or healthcare provider, within the context of an Electronic Health Record (EHR) software.          |
| ObsRequests..Results..ResponsibleObserver.Person.IdType            | String     | The IdType member of the String Type in the ExtendedCompositePerson Type is used to store the type of identification associated with the person, such as social security number or driver's license number.     |
| ObsRequests..Results..ResponsibleObserver.Person.LastName          | FamilyName | The LastName member of the FamilyName Type in the ExtendedCompositePerson Type contains the last name or surname of a person. It is used to store the family or last name of an individual in the EHR software. |
| ObsRequests..Results..ResponsibleObserver.Person.LastName.Surname  | String     | The Surname member of the FamilyName type is used to store the last name or family name of an individual.   |
| ObsRequests..Results..ResponsibleObserver.Person.LastName.complete | Boolean    | The complete member of the Boolean Type in the FamilyName Type is used to indicate if the   |

|  |        |   |
|--|--------|---|
|  |        | family name is complete or not.   |
| ObsRequests..Results..ResponsibleObserver.Person.FirstName       | String | The FirstName member of String Type in the ExtendedCompositePerson Type is used to store the first name of a person in the context of an electronic health record (EHR) software.   |
| ObsRequests..Results..ResponsibleObserver.Person.GivenNamesOther | String | GivenNamesOther is a member of the ExtendedCompositePerson type and it is of type String. It is used to store additional given names or middle names of an individual patient in the electronic health record (EHR) system. |
| ObsRequests..Results..ResponsibleObserver.Person.Prefix          | String | The Prefix member of the ExtendedCompositePerson type in the EHR software is used to store the prefix or title of a person's name, such as "Mr.", "Mrs.", or "Dr.".   |
| ObsRequests..Results..ResponsibleObserver.Person.Suffix          | String | The "Suffix" member of String Type in the ExtendedCompositePerson Type is used to store a suffix or title that follows a person's name, such as "Jr." or "MD".  |
| ObsRequests..Results..ResponsibleObserver.Person.NameType        | String | The NameType member of the String Type in the   |

|   |                        |  |
|---|------------------------|--|
| type  |                        | ExtendedCompositePerson Type is used to indicate the type or category of the name of a person, such as "alias" or "maiden name".   |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority             | HierarchicalDesignator | The AssigningAuthority member of the HierarchicalDesignator type in the ExtendedCompositePerson type is used to represent the authority responsible for assigning the namespace ID for patient identification.   |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority.NamespaceId | String                 | The NamespaceId member of the HierarchicalDesignator type in the EHR software is a string that represents the unique identifier for the namespace or domain associated with the data element. It is used to categorize and differentiate the data element within the EHR system. |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority.UniversalId | String                 | The UniversalId member of type String in the HierarchicalDesignator class is used to represent a unique identifier that is universally recognized and can be used to identify a specific entity in the context of an   |

|   |         |   |
|---|---------|---|
|   |         | Electronic Health Record (EHR) system.  |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority.UniversalIdType | String  | The UniversalIdType member of the String Type in the HierarchicalDesignator Type is used to specify the type of the Universal ID.   |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority.complete        | Boolean | The complete member of the Boolean Type in the HierarchicalDesignator is used to indicate whether or not the hierarchical designator is complete or fully specified. It is a boolean value that is set to true if the hierarchical designator is complete and false if it is not fully specified. |
| ObsRequests..Results..ResponsibleObserver.Person.complete                           | Boolean | The complete member of Boolean Type in the ExtendedCompositePerson Type is used to indicate whether all necessary information for the person's record has been provided and the record is considered complete.  |
| ObsRequests..Results..ResponsibleObserver.type                                      | Type    | The type member of the Type Type in the Provider class is used to specify the type of provider.   |
| ObsRequests..Results..ResponsibleObserver.type.value__                              | Int32   | The value__ member of the Int32 Type is used  |

|   |      |   |
|---|------|---|
|   |      | to store the underlying numeric value of the Type enum.   |
| ObsRequests..Results..ResponsibleObserver.type.Provider       | Type | The Provider member of Type Type is used to store information about the healthcare provider who is associated with the medication history.  |
| ObsRequests..Results..ResponsibleObserver.type.Provider2      | Type | The Provider2 member of the Type enum is used to represent a secondary provider in an EHR software.   |
| ObsRequests..Results..ResponsibleObserver.type.Location       | Type | The Location member of Type Type is used to store information about the location associated with a medication history entry in an EHR software.   |
| ObsRequests..Results..ResponsibleObserver.type.Identification | Type | The Identification member of Type Type is used for identifying and assigning a unique identifier to a specific entity or record within the EHR software.  |
| ObsRequests..Results..ResponsibleObserver.type.ContactInfo    | Type | The ContactInfo member of the Type Type represents contact information associated with a healthcare provider or organization. It might include details such as phone numbers, email addresses, and physical addresses. It is used to store and retrieve |

|  |      |   |
|--|------|---|
|  |      | contact information for communication purposes within the EHR software.   |
| ObsRequests..Results..ResponsibleObserver.type.Composite | Type | The Composite member of Type Type is used to represent composite data elements, which are structures that consist of multiple sub-elements. These sub-elements can be of different data types and are grouped together to form a single complex data element.   |
| ObsRequests..Results..ResponsibleObserver.type.ID_TB     | Type | The ID_TB member of the Type enum is used to indicate an identification type for a tuberculosis (TB) related entity in an Electronic Health Record (EHR) system.  |
| ObsRequests..Results..ResponsibleObserver.type.ID_CmbBox | Type | The ID_CmbBx member of the Type Type is used to represent an identifier for a combobox control within the Electronic Health Record (EHR) software. It could be used for selecting and referencing a specific item or option within a dropdown list or combobox in the user interface of the EHR software. |
| ObsRequests..Results..ResponsibleObserver.type.CE        | Type | The CE member of Type Type is used to store   |



|   |      |  |
|---|------|--|
|   |      | Clinical Episode information in an Electronic Health Record (EHR) system.  |
| ObsRequests..Results..ResponsibleObserver.type.PersonLocation | Type | The PersonLocation member of the Type Type is used to store information about the person's location, such as their address or coordinates, within the EHR software.  |
| ObsRequests..Results..ResponsibleObserver.type.CM_NDL         | Type | The CM_NDL member of the Type Type is used for storing information related to a medical condition or diagnosis. It may include details such as code, name, and notes related to the specific condition or diagnosis. |
| ObsRequests..Results..ResponsibleObserver.type.CM_EIP         | Type | The CM_EIP member in the Type enumeration is used to represent an EHR software component related to managing Emergency Information Processing (EIP) within a clinical setting.                                       |
| ObsRequests..Results..ResponsibleObserver.type.EI             | Type | The "EI" member of the "Type" type is used to represent an "Electronic Information" order in the EHR software.   |
| ObsRequests..Results..ResponsibleObserver.type.HD             | Type | The HD member of the Type Type is used to represent a Health   |

|   |       |  |
|---|-------|--|
|   |       | Document.  |
| ObsRequests..Results..ResponsibleObserver.lab                 | Lab   | The lab member of the Lab Type is used to identify the specific laboratory associated with a provider or order within the EHR software.  |
| ObsRequests..Results..ResponsibleObserver.lab.value__         | Int32 | The value__ member of the Int32 type represents the numeric value of the Lab enum member in the Medication History. It is used to store and retrieve the specific Lab value associated with the Medication History, such as None or EllkayProgenity. |
| ObsRequests..Results..ResponsibleObserver.lab.None            | Lab   | The None member of the Lab Type is used to indicate that no specific laboratory test or procedure is associated with the BasicOrder. It signifies that there is no specific lab test or code assigned to the order.                                  |
| ObsRequests..Results..ResponsibleObserver.lab.EllkayProgenity | Lab   | The EllkayProgenity member of the Lab enum Type is used to indicate a specific laboratory or testing service provider within the EHR software.   |
| ObsRequests..Results..ResponsibleObserver.empid2              | Int32 | The empid2 member of type Int32 in the Provider Type is used to store the employee   |

|  |              |  |
|--|--------------|--|
|  |              | ID of a healthcare provider in an EHR software.  |
| ObsRequests..Results..ResponsibleObserver.complete | Boolean      | The complete member of the Boolean Type is used to indicate whether or not the Provider's information is complete in the EHR software.   |
| ObsRequests..Results..ItemInfoListXml              | String       | The ItemInfoListXml member is a field that contains additional information or metadata associated with the observation result. It is used to store any extra data or details that may be relevant to the result, such as specific information about the test or any other related information. |
| ObsRequests..Results..itemInfoListXmlField         | String       | The itemInfoListXmlField member of type String is used to store additional information related to the observation result in XML format.  |
| ObsRequests..Notes                                 | List<String> | The Notes member of List<String> type in the ObservationRequest class is used to store additional information or comments related to the observation request. These notes could serve as   |

|                                 |                   |   |
|---------------------------------|-------------------|---|
|                                 |                   | documentation, observations, or any other relevant information related to the request.  |
| ObsRequests..SpecimenActionCode | String            | The SpecimenActionCode member of the ObservationRequest Type is a string that represents the action to be taken with regard to the specimen associated with the observation request. This could include actions such as collection, processing, or disposal of the specimen.  |
| ObsRequests..Specimen           | LabResultSpecimen | The Specimen member of the LabResultSpecimen type is used to store information about the specimen collected for the laboratory test. This includes details such as the ID of the specimen, the start and end collection date and time, reasons for specimen rejection, quality and appropriateness of the specimen, and any specific conditions associated with the specimen. |
| ObsRequests..Specimen.ID        | HL7CodeType       | The ID member of the HL7CodeType Type in the LabResultSpecimen  |

|   |          |  |
|---|----------|--|
|   |          | Type is used to represent the unique identifier or code for a specific lab result specimen. It is used to identify and distinguish different specimens within the electronic health record system.   |
| ObsRequests..Specimen.CollectionDateTimeStart | DateTime | The CollectionDateTimeStart member of the LabResultSpecimen type represents the date and time when the specimen for the lab result was collected. It is used to track the exact moment the specimen was obtained for testing, providing a reference point for analyzing and interpreting the subsequent lab results. |
| ObsRequests..Specimen.CollectionDateTimeEnd   | DateTime | The CollectionDateTimeEnd member of DateTime type in the LabResultSpecimen type represents the end date and time when a specimen collection event concludes. It is used to capture the exact moment when the collection of a specimen is completed during a laboratory procedure in the EHR software.                |

|                                       |                   |   |
|---------------------------------------|-------------------|---|
| ObsRequests..Specimen.RejectReasons   | List<HL7CodeType> | The RejectReasons member of List<HL7CodeType> Type in the LabResultSpecimen Type is used to store the reasons for rejecting a lab result specimen in the Electronic Health Record (EHR) system.   |
| ObsRequests..Specimen.Quality         | HL7CodeType       | The Quality member of the HL7CodeType type in the LabResultSpecimen type is used to indicate the quality of a lab result specimen.  |
| ObsRequests..Specimen.Appropriateness | HL7CodeType       | The "Appropriateness" member of the HL7CodeType type within the LabResultSpecimen type is used to denote the suitability or correctness of a particular lab result specimen for a given test or analysis. It indicates whether the specimen meets the necessary requirements and criteria for accurate and valid testing. |
| ObsRequests..Specimen.Conditions      | List<HL7CodeType> | The Conditions member of List<HL7CodeType> Type in the LabResultSpecimen Type is used to store the conditions or circumstances related to the lab result  |

|                          |                    |  |
|--------------------------|--------------------|--|
|                          |                    | specimen.  |
| ObsRequests..Diags       | List<HL7CodeType>  | The Diags member of type List<HL7CodeType> in the ObservationRequest type represents the list of diagnostic codes associated with the observation request. These diagnostic codes are used to identify specific medical conditions or diagnoses related to the requested observation in the electronic health record (EHR) software. |
| ObsRequests..Collectors  | List<ProviderType> | The Collectors member of the List<ProviderType> type in the ObservationRequest type is used to store the information of the healthcare providers who collected the specimen for the observation.   |
| ObsRequests..Collectors. | ProviderType       | The member of the ProviderType type in the List<ProviderType> type is used to store information about the healthcare provider associated with a medication order. This includes details such as the provider's personal information, assigning authority, and  |

|                                       |                  |  |
|---------------------------------------|------------------|--|
|                                       |                  | employee ID.   |
| ObsRequests..Technicians              | List<HL7_CM_NDL> | The Technicians member of the List<HL7_CM_NDL> type in the ObservationRequest class is used to store information about the technicians involved in performing the observation or test requested in the order. It may include details such as their names, roles, and location within the healthcare facility.  |
| ObsRequests..Technicians.             | HL7_CM_NDL       | The member of the HL7_CM_NDL type, which is a member of the List<HL7_CM_NDL> type, is used to represent the location information of a patient within a healthcare facility. It contains details such as the point of care, room, bed, location status, person location type, building, floor, location description, facility identifier, and the name of the location. |
| ObsRequests..Technicians..pointOfCare | String           | The pointOfCare member of String Type in the HL7_CM_NDL Type is used to store the specific location within a healthcare facility where a patient   |



|  |        |   |
|--|--------|---|
|  |        | is receiving care.  |
| ObsRequests..Technicians..room               | String | The room member of the String Type in the HL7_CM_NDL Type is used to store the room number or identifier of a patient's location within a healthcare facility.  |
| ObsRequests..Technicians..bed                | String | The bed member of the HL7_CM_NDL type is used to indicate the specific bed number or identifier within a hospital or healthcare facility. It represents the physical location of a patient within a room or ward. |
| ObsRequests..Technicians..locationStatus     | String | The locationStatus member of the HL7_CM_NDL type is used to indicate the current status of a location within the electronic health record (EHR) software.   |
| ObsRequests..Technicians..personLocationType | String | The personLocationType member in the HL7_CM_NDL type is used to indicate the type of person or entity associated with a specific location within the healthcare facility.   |
| ObsRequests..Technicians..building           | String | The "building" member of the HL7_CM_NDL type is used to store the name or identifier  |

|   |                        |  |
|---|------------------------|--|
|   |                        | of a building within a healthcare facility. It may refer to the physical structure where a patient is located or where a specific service or department is housed.   |
| ObsRequests..Technicians..floor               | String                 | The floor member in the HL7_CM_NDL type is used to represent the specific floor or level within a building where a patient is located in a healthcare facility.  |
| ObsRequests..Technicians..locationDescription | String                 | The locationDescription member of the HL7_CM_NDL type is a String that is used to provide a description or additional information about a location within the EHR software. This could include details such as the specific room number, area name, or any other relevant information that helps to identify or describe the location. |
| ObsRequests..Technicians..facility            | HierarchicalDesignator | The facility member of the HierarchicalDesignator Type is used to store information about the facility or organization associated with the HL7_CM_NDL Type, such as the name, location, and other  |

|  |                         |  |
|--|-------------------------|--|
|  |                         | identifying details.   |
| ObsRequests..Technicians..name                 | ExtendedCompositePerson | The name member of the ExtendedCompositePerson Type is used to store the name of a person or entity associated with a healthcare location in an EHR system.  |
| ObsRequests..Technicians..startDateTimeEnabled | Boolean                 | The startDateTimeEnabled member of the Boolean Type in the HL7_CM_NDL Type is used to indicate whether the start date and time for a location within an Electronic Health Record (EHR) system is enabled or not. |
| ObsRequests..Technicians..endDateTimeEnabled   | Boolean                 | The endDateTimeEnabled member of Boolean Type in the HL7_CM_NDL Type is used to determine if the end date and time is enabled or available in the location information in the EHR software.                      |
| ObsRequests..Technicians..complete             | Boolean                 | The complete member of the Boolean Type in the HL7_CM_NDL Type is used to indicate whether the location information is complete or not. It is a flag that is set to true if all the                              |

|  |            |  |
|--|------------|--|
|  |            | necessary location details are provided, and false if any required information is missing.   |
| ObsRequests..DiagServSectId                  | HL7_ID     | The DiagServSectId member of the HL7_ID Type in the ObservationRequest Type is used to identify the diagnostic service section ID. It may be used to categorize or classify the diagnostic services provided by the healthcare organization or laboratory.   |
| ObsRequests..Parent                          | HL7_CM_EIP | The Parent member of the HL7_CM_EIP type in the ObservationRequest type is a reference to the parent order or request that is associated with the current order or request. It is used to establish a hierarchical relationship between related orders or requests within the electronic health record (EHR) software. |
| ObsRequests..Parent.parentsPlacerOrderNumber | HL7_EI     | The parentsPlacerOrderNumber member of the HL7_EI type in the HL7_CM_EIP type is used to store the identifier of the parent order in the EHR   |

|   |        |   |
|---|--------|---|
|   |        | software.   |
| ObsRequests..Parent.parentsPlacerOrderNumber.entityIdentifier | String | The entityIdentifier member of type String in the HL7_EI class is used to identify a specific entity within a healthcare system, such as a patient, provider, or facility. It is used to uniquely identify the entity across different systems and is an essential component in exchanging health information electronically. |
| ObsRequests..Parent.parentsPlacerOrderNumber.namespaceId      | String | The namespaceId member of type String in the HL7_EI type is used to identify the namespace in which the entity identifier is defined. It provides a way to establish the context or domain in which the entity identifier is valid or meaningful within the EHR software.   |
| ObsRequests..Parent.parentsPlacerOrderNumber.universalId      | String | The universalId member of the String type in the HL7_EI type is used to store a unique identifier that represents a specific entity in the healthcare system. It could be used to uniquely identify a patient, a provider, a medication, a lab test, or any other element within the EHR                                      |

|  |         |  |
|--|---------|--|
|  |         | software.  |
| ObsRequests..Parent.parentsPlacerOrderNumber.universalIdType | HL7_ID  | The universalIdType member of the HL7_ID Type in the HL7_EI Type is used to specify the type or format of the universalId value. It could indicate whether the universalId represents a specific organization, a unique identifier for an entity, or any other specific classification.  |
| ObsRequests..Parent.parentsPlacerOrderNumber.complete        | Boolean | The complete member of Boolean Type in the HL7_EI Type is used to indicate whether all the necessary information in the HL7_EI object has been captured or not. It serves as a flag to identify if the entityIdentifier, namespaceId, universalId, and universalIdType fields are complete or if any of them is missing or incomplete. |
| ObsRequests..Parent.parentsFillerOrderNumber                 | HL7_EI  | The parentsFillerOrderNumber member of the HL7_EI Type is a unique identifier assigned by the EHR software to track and link the current order with its parent order in the context of the HL7_CM_EIP Type. It is used to identify the   |

|                              |                  |   |
|------------------------------|------------------|---|
|                              |                  | previous or original order from which the current order was derived or modified.  |
| ObsRequests..Parent.complete | Boolean          | The complete member of Boolean Type in the HL7_CM_EIP Type is used to indicate whether the order is complete or not.  |
| ObsRequests..PerformingOrg   | OrganizationType | The PerformingOrg member in the OrganizationType type within the ObservationRequest type is used to store information about the organization or entity that is responsible for performing a specific medical observation or test. |
| Provider                     | ProviderType     | The Provider member of the ProviderType type in BasicOrder is to store information about the healthcare provider associated with the order, such as their personal details and any assigning authority.                           |
| EnteredBy                    | ProviderType     | The EnteredBy member of the ProviderType type in the BasicOrder type is used to represent the provider who entered or created the order in the EHR software.  |

|                   |                  |  |
|-------------------|------------------|--|
| EnterersLocation  | OrganizationType | The EnterersLocation member of OrganizationType in the BasicOrder Type is used to store information about the location of the person who entered the order in the EHR software.  |
| ReasonNotDoneCode | String           | The ReasonNotDoneCode member of type String in the BasicOrder class is used to store a code or identifier that represents the reason why a particular order or action was not carried out or completed. This code could provide information on the specific reason for non-completion, such as patient refusal, equipment malfunction, or scheduling conflict. |



## Drug Allergy - "ehr\_file" CSV Export

The "ehr\_file" table is used to store drug allergy information in an EHR (Electronic Health Record) software. It contains various columns such as the patient ID, the type of drug allergy, the date and time of the record, and the actual data related to the drug allergy. It also includes columns for tracking the last modification datetime, the employee ID who made the modification, and the location ID where the record was created or modified. Additionally, it includes columns for identifying if the patient's education resource related to the drug allergy has been identified and uploaded, along with the corresponding datetime for these actions.

| Column Name            | Data Type                   | Description  | Extraction Method               |
|------------------------|-----------------------------|--|---------------------------------|
| fid                    | int                         | The fid column is an auto-incrementing primary key that uniquely identifies each record in the ehr_file table.                       | CSV                             |
| acctid                 | int                         | The acctid column is the unique patient ID from the 'patients' table.  | CSV                             |
| type                   | int                         | The type column in the ehr_file table represents the specific type or category of the electronic health record file.                 | CSV                             |
| datet                  | datetime<br>default<br>NULL | The 'datet' column in the 'ehr_file' table represents the date and time when the file was recorded or modified.                      | CSV                             |
| data                   | longblob                    | The data column stores the actual file data (e.g., PDFs, images, documents) associated with the electronic health record (EHR) file. | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column represents the date and time when the data in the ehr_file record was last modified.               | CSV                             |
| empid                  | int                         | The empid column is the unique identifier for an employee in the database.   | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column is a boolean flag indicating whether the file is identified as a patient educational resource.         | CSV                             |

|                             |                             |  |     |
|-----------------------------|-----------------------------|--|-----|
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column stores the date and time when the identification of patient educational resources was last updated. | CSV |
| locid                       | int                         | The locid column is the unique identifier for the location associated with the patient record in the ehr_file table.                       | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been successfully uploaded for a patient.   | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the file was uploaded for the patient.                                      | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier that is used to track the insertion of data into the ehr_file table.                         | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the record was initially created in the ehr_file table.                          | CSV |
| sub_type                    | int                         | The sub_type column represents a specific subtype or category related to the type of ehr file stored in the database table.                | CSV |

## DrugAllergy Type

The DrugAllergy Type is used to store information about a patient's drug allergies within an electronic health record (EHR) system. It includes details such as the specific medication that the patient is allergic to, the reaction experienced, the severity of the allergy, and the start and end dates of the allergy. This information helps healthcare providers to avoid prescribing medications that may cause an allergic reaction in the patient. A DrugAllergy is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name                  | Type        | Description   |
|------------------------------|-------------|---|
|                              | DrugAllergy | The member "Status" of the DrugAllergy type is used to indicate the current status of a drug allergy in an electronic health record system.   |
| Drug                         | Medication  | The Drug member of the Medication type in the DrugAllergy type is used to store information about a specific medication related to a drug allergy. It includes details such as the brand name of the medication, prescription code, ingredients, form, route of administration, generic name, strength, and any additional free text information. |
| Drug.BrandName               | String      | The BrandName member of String Type in the Medication Type is used to store the brand name of a medication.   |
| Drug.RxCode                  | String      | The RxCode member of type String in the Medication type is used to store the medication's prescription code or identifier.  |
| Drug.RxCodeValueSetCodeField | String      | The RxCodeValueSetCodeField member of String Type in the Medication Type is used to store the value set code for the RxCode field. It is used to identify the specific set of codes that the RxCode belongs to, allowing for standardized categorization and classification of  |

|                          |                            |   |
|--------------------------|----------------------------|---|
|                          |                            | medications within the EHR software.  |
| Drug.Ingredients         | List<MedicationIngredient> | The Ingredients member of the List<MedicationIngredient> type represents the list of ingredients present in a medication. It is used to store information about the individual ingredients that make up a medication, such as their names and corresponding Rx codes.                             |
| Drug.Ingredients.        | MedicationIngredient       | The MedicationIngredient class, which is a member of the List<MedicationIngredient> type, represents an ingredient of a medication in the electronic health records (EHR) system. It includes information about the name and prescription code (RxCode) of the ingredient used in the medication. |
| Drug.Ingredients..Name   | String                     | The Name member of String Type in the MedicationIngredient Type represents the name of a medication ingredient. It is used to store the name of a specific ingredient contained in a medication.  |
| Drug.Ingredients..RxCode | String                     | The RxCode member of type String in the MedicationIngredient type is used to store the code or identifier specific to the medication ingredient.  |
| Drug.Form                | String                     | The Form member of the String type in the Medication class is used to store the form or formulation of the medication. This could refer to whether the medication is in the form of a tablet, capsule, liquid, inhaler, etc.  |
| Drug.Route               | String                     | The Route member of String Type in the Medication Type is used to store the method or route of administration for a medication. This could include information such as oral, intravenous, topical, etc.   |

|                     |         |  |
|---------------------|---------|--|
| Drug.Generic        | String  | The Generic member of String Type in the Medication Type is used to store the generic name or the non-brand name of a medication.                                      |
| Drug.Strength       | Amount  | The Strength member of the Amount Type in the Medication Type is used to store the dosage strength of a medication.  |
| Drug.Strength.Value | Decimal | The Value member of the Decimal Type in the Amount Type is used to represent a numeric value for a measurement or quantity in the EHR software.                        |
| Drug.Strength.Units | String  | The Units member of String Type in the Amount Type is used to represent the unit of measurement for the value of a medication dosage or quantity.                      |
| Drug.FreeText       | String  | The FreeText member of the Medication Type is used to store any additional information or comments about the medication that are not covered by other specific fields. |
| Drug.NotAClass      | Boolean | The NotAClass member of Boolean Type in the Medication Type is used to determine if a medication is not classified under any specific class or category.               |
| Reaction            | String  | The Reaction member of String Type in the DrugAllergy Type is used to store the patient's allergic reaction to a particular medication.                                |
| Status              | String  | The Status member of String Type in the DrugAllergy Type is used to indicate the current status or condition of the drug allergy for a patient in an EHR software.     |
| ID                  | String  | The ID member of String Type in the DrugAllergy Type is used to uniquely identify the specific drug allergy record   |

|                  |          |   |
|------------------|----------|---|
|                  |          | within the EHR software system.   |
| Severity         | String   | The Severity member of String Type in the DrugAllergy Type is used to indicate the severity level of a drug allergy. It provides information about the intensity or seriousness of the allergic reaction caused by a specific medication. |
| StartDateNotSet  | Boolean  | The StartDateNotSet member of Boolean Type in the DrugAllergy Type is used to indicate whether the StartDate property has been set or not. It serves as a flag to check if a start date for a drug allergy has been specified.            |
| StartDate        | DateTime | The StartDate member of the DateTime Type in the DrugAllergy Type is used to indicate the date when the drug allergy started for a patient.   |
| EndDateNotSet    | Boolean  | The EndDateNotSet member of the Boolean Type in the DrugAllergy Type indicates whether the end date of a drug allergy is set or not. It is used to track if there is an established end date for the drug allergy or if it is ongoing.    |
| EndDate          | DateTime | The EndDate member of DateTime Type in the DrugAllergy Type is used to represent the date when the drug allergy ended or is no longer active.   |
| LastModifiedDate | DateTime | The LastModifiedDate member of the DateTime Type in the DrugAllergy Type is used to track the date and time when the drug allergy information was last modified or updated in the EHR software.   |
| SnomedCode       | Code     | The SnomedCode member of the Code Type in the DrugAllergy Type is used to store the Snomed code associated with a drug allergy.   |

|                              |        |   |
|------------------------------|--------|---|
| SnomedCode.CodeStr           | String | The CodeStr member of the Code Type is a string that represents a code value. It is used to store the actual code value for a particular medical concept or entity, such as a medication or diagnosis code.   |
| SnomedCode.Description       | String | The Description member of String Type in the Code Type is used to store a textual description or explanation of a code. It provides additional information about the meaning or context of the code value.  |
| SnomedCode.CodeSystem        | String | The CodeSystem member of the Code Type is a string that represents the code system used for a specific code. It is used to identify the standardized set of codes that are used to represent various medical concepts, such as diagnosis, medication, or procedure codes. This information is crucial for interoperability purposes, as it ensures that the codes used in the EHR software align with the industry-standard code systems, allowing for consistent and accurate exchange of healthcare data. |
| SnomedCode.CodeSystemVersion | String | The CodeSystemVersion member of the Code Type is a string that represents the version of the code system used to categorize the drug allergy. It is used for tracking and identifying the specific version of the code system that was used at the time the drug allergy information was recorded in the EHR software.  |
| SnomedCode.ValueSet          | String | The ValueSet member of String Type in the Code Type is used to store the value set identifier associated with a particular code.  |
| SnomedCode.id                | String | The "id" member of the String Type in the Code Type is used to represent the unique identifier or code of a specific item or entity within the EHR software   |

|                                |          |   |
|--------------------------------|----------|---|
|                                |          | system.   |
| SnomedCode.codeSystemName      | String   | The codeSystemName member of String Type in the Code Type is used to store the name or identifier of the code system to which the code belongs. It is used in EHR software to identify the specific code system that provides the meaning and context for the given code value. |
| SnomedCode.valueSetVersion     | String   | The valueSetVersion member of String Type in the Code Type is used to store the version of the value set that the code belongs to.  |
| SnomedCode.nullFlavor          | String   | The nullFlavor member of the Code Type is used to indicate that the value of the Code object is missing or unknown. It is a standardized code that represents the absence of a value in the specified code system and version.  |
| SnomedCode.codeType            | CodeType | The codeType member of the CodeType type is used to define the type of code being used in the EHR software, such as whether it is a SNOMED code or a different code system.   |
| SnomedCode.codeType.id         | Int32    | The id member of Int32 Type in the CodeType Type is used as a unique identifier for a specific code.  |
| SnomedCode.codeType.typeString | String   | The typeString member of the String Type in the CodeType Type is used to store the type or category of a code.  |
| IgnoreSnomedCode               | Boolean  | The IgnoreSnomedCode member of type Boolean in the DrugAllergy class is used to indicate whether to ignore the SNOMED code associated with the drug allergy when processing or displaying the data in the EHR software.   |



## Drug Allergy History - "ehr\_file" CSV Export

The ehr\_file table is used to store drug allergy history for patients in an EHR software. It contains information such as the unique patient ID, the type of allergy, the date and time of the record, and the actual allergy data. The table also includes timestamps for when the record was last modified and when it was created. Additionally, it stores the unique employee ID, location ID, and other identifiers related to the record. This table is used to manage and maintain a patient's drug allergy history within the EHR system.

| Column Name                 | Data Type                   | Description   | Extraction Method               |
|-----------------------------|-----------------------------|---|---------------------------------|
| fid                         | int                         | The fid column is an auto-incrementing integer value that uniquely identifies each record in the ehr_file table.    | CSV                             |
| acctid                      | int                         | The acctid column is the unique patient ID from the 'patients' table.   | CSV                             |
| type                        | int                         | The type column represents the type of the EHR file.  | CSV                             |
| datet                       | datetime<br>default<br>NULL | The 'datet' column in the 'ehr_file' table represents the date and time of an event or record entry.                | CSV                             |
| data                        | longblob                    | The data column in the ehr_file table contains the actual electronic health record (EHR) file data.                 | CSV + Binary<br>Deserialization |
| last_modified_datetime      | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the file was last modified.                         | CSV                             |
| empid                       | int                         | The empid column is the unique employee ID from the 'employees' table.  | CSV                             |
| ident_pat_edu_rsrc          | tinyint                     | The ident_pat_edu_rsrc column is a flag indicating whether the file is associated with patient education resources. | CSV                             |
| ident_pat_edu_rsrc_datetime | datetime<br>default         | The ident_pat_edu_rsrc_datetime column stores the date and time when the  | CSV                             |

|                       |                             |  |     |
|-----------------------|-----------------------------|--|-----|
|                       | NULL                        | identification of patient educational resources was last modified.   |     |
| locid                 | int                         | The locid column represents the unique location ID from the 'locations' table.   | CSV |
| uploaded_pat          | tinyint                     | The uploaded_pat column is used to track whether the file associated with a record has been uploaded for a patient. It is a boolean value where 0 indicates that the file has not been uploaded and 1 indicates that the file has been uploaded. | CSV |
| uploaded_pat_datetime | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the datetime when the file was uploaded for the patient.   | CSV |
| insert_guid           | varchar                     | The insert_guid column is a unique identifier generated for each record and used for tracking and referencing purposes.  | CSV |
| created_datetime      | datetime<br>default<br>NULL | The `created_datetime` column stores the date and time when the record in the `ehr_file` table was created.  | CSV |
| sub_type              | int                         | The sub_type column represents a specific subtype or category related to the main type of the file stored in the database table.   | CSV |

## DrugAllergyLog Type

The DrugAllergyLog type is used to store information about drug allergies in a patient's electronic health record (EHR). It contains fields for the allergen, date of the allergy, employee ID of the person who recorded the allergy, and any changes made to the allergy information. The type is used to track and manage drug allergies for patient safety and to provide accurate and up-to-date allergy information for medical professionals. A DrugAllergyLog is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name  | Type           | Description   |
|--------------|----------------|---|
|              | DrugAllergyLog | The "Allergen" member of the DrugAllergyLog type represents the specific substance or item that a patient is allergic to. It stores the name or description of the allergen.  |
| Allergen     | String         | The Allergen member of String Type in the DrugAllergyLog Type represents the substance or item to which a patient is allergic. It is used to store the specific allergen that caused an allergic reaction in the patient's medical history. |
| Date         | DateTime       | The Date member of the DateTime Type in the DrugAllergyLog Type represents the date when the drug allergy was logged or updated in the EHR software.  |
| EmployeeID   | Int32          | The EmployeeID member of Int32 Type in the DrugAllergyLog Type is used to store the unique identifier of the employee who logged the drug allergy event in the EHR software.  |
| ChangedField | String         | The ChangedField member of String Type in the DrugAllergyLog Type is used to indicate which specific field or property in the EHR software's drug allergy record has been changed.  |
| From         | String         | The From member of String Type in the DrugAllergyLog Type is used to store the previous value of the allergic substance or allergen before any changes were made in the EHR software.   |
| To           | String         | The "To" member of type String in the DrugAllergyLog class is used to store the new value or updated information related to the drug allergy.   |

## Drug Interaction - "ehr\_file" CSV Export

The ehr\_file table is used to store drug interaction data in an electronic health records (EHR) system. It includes columns such as the unique patient ID, the type of drug interaction, the date and time of the interaction, and the actual data of the interaction. Other columns store information about the employee who uploaded the interaction data, the location where the interaction occurred, and timestamps for various actions related to the interaction. This table is used to track and manage drug interactions for patients within the EHR system.

| Column Name            | Data Type                   | Description  | Extraction Method               |
|------------------------|-----------------------------|--|---------------------------------|
| fid                    | int                         | The fid column is an auto-incrementing identifier for each record in the ehr_file table. It uniquely identifies each file stored in the table. | CSV                             |
| acctid                 | int                         | The acctid column in the ehr_file table is the unique patient ID from the patients table.  | CSV                             |
| type                   | int                         | The type column represents the type of EHR file that is stored in the database table.  | CSV                             |
| datet                  | datetime<br>default<br>NULL | The datet column is a datetime type column that stores the date and time when the file was created or last modified.                           | CSV                             |
| data                   | longblob                    | The data column in the ehr_file table stores the binary data of the electronic health record file.   | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the file was last modified.  | CSV                             |
| empid                  | int                         | The empid column is the unique employee ID associated with the record in the ehr_file table.   | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column is a boolean flag that indicates whether the file is identified as a patient education resource.                 | CSV                             |

|                             |                             |  |     |
|-----------------------------|-----------------------------|--|-----|
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column stores the date and time when the identification of patient educational resources was last updated. | CSV |
| locid                       | int                         | The locid column is the unique identifier for the location where the EHR file is associated.   | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for a patient.  | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | uploaded_pat_datetime: The date and time when the file was uploaded for the patient.   | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier that is used to track and identify the insertion of data into the ehr_file table.            | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column is a datetime field that stores the date and time when the record was initially created in the ehr_file table. | CSV |
| sub_type                    | int                         | The sub_type column represents the subtype of the file stored in the ehr_file table.   | CSV |

## DrugInteraction Type

The DrugInteraction type is used to represent a potential interaction between two medications. It contains information about the two drugs involved, including their names and dosage forms, as well as the severity of the interaction. This type is used within an electronic health record (EHR) software to help healthcare professionals identify and manage potential drug interactions in patients' medication regimens. A DrugInteraction is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name                   | Type            | Description   |
|-------------------------------|-----------------|---|
|                               | DrugInteraction | The member `Severity` of the `DrugInteraction` type is used to indicate the severity of the drug interaction between `DrugA` and `DrugB` in an electronic health record (EHR) software.   |
| DrugA                         | Medication      | The DrugA member of the Medication type in the DrugInteraction type is used to store information about one of the drugs involved in a drug interaction. It includes details such as the brand name, prescription code, ingredients, form, route, generic status, strength, and any additional free text information about the drug. |
| DrugA.BrandName               | String          | The BrandName member of type String in the Medication class is used to store the brand name of a medication.  |
| DrugA.RxCode                  | String          | The RxCode member of type String in the Medication class is used to store the unique code or identifier for a medication prescribed within the EHR software.  |
| DrugA.RxCodeValueSetCodeField | String          | The RxCodeValueSetCodeField member in the Medication type is used to store the code for the value set associated with the RxCode field. It is used to identify and classify specific codes related to the medication, such as the National Drug   |

|                           |                            |  |
|---------------------------|----------------------------|--|
|                           |                            | Codes (NDC) or other coding systems used in healthcare.  |
| DrugA.Ingredients         | List<MedicationIngredient> | The Ingredients member of the List<MedicationIngredient> type in the Medication class is used to store the ingredients present in a medication.  |
| DrugA.Ingredients.        | MedicationIngredient       | The member of the MedicationIngredient type in the List<MedicationIngredient> type is used to store information about the ingredients of a medication in an Electronic Health Record (EHR) software. |
| DrugA.Ingredients..Name   | String                     | The Name member of type String in the MedicationIngredient class is used to store the name of a medication ingredient.   |
| DrugA.Ingredients..RxCode | String                     | The RxCode member of type String in the MedicationIngredient class is used to store a unique identifier or code assigned to a medication by the prescribing or dispensing system.                    |
| DrugA.Form                | String                     | The "Form" member of type String in the Medication class is used to represent the physical form or presentation of the medication, such as tablet, capsule, liquid, cream, etc.                      |
| DrugA.Route               | String                     | The Route member of type String in the Medication class is used to specify the method or pathway by which the medication is administered or taken, such as oral, intravenous, or topical.            |
| DrugA.Generic             | String                     | The Generic member of type String in the Medication class is used to store the generic name of a medication.   |
| DrugA.Strength            | Amount                     | The Strength member of the Amount Type in the Medication Type represents the quantitative measurement of the potency or concentration of a medication. It specifies the value and units of the       |

|                      |            |  |
|----------------------|------------|--|
|                      |            | medication's strength, such as milligrams or micrograms, indicating the dosage or amount of active ingredient present in the medication.   |
| DrugA.Strength.Value | Decimal    | The Value member of the Decimal Type in the Amount Type is used to store numerical data related to the amount or dosage of a medication.   |
| DrugA.Strength.Units | String     | The Units member of the String Type in the Amount Type is used to represent the measurement unit for the value of a medication dosage or quantity in an electronic health record (EHR) system.   |
| DrugA.FreeText       | String     | The FreeText member of String Type in the Medication class is used to store any additional information or details about a medication that may not be captured by other specific attributes or fields.  |
| DrugA.NotAClass      | Boolean    | The NotAClass member of Boolean type in the Medication class is used to indicate whether the medication is a class of drugs or not.  |
| Severity             | String     | The Severity member of String Type in the DrugInteraction Type is used to indicate the severity level of the drug interaction between DrugA and DrugB.   |
| DrugB                | Medication | The DrugB member of the Medication Type in the DrugInteraction Type represents the second medication involved in a drug interaction. It contains information about the specific medication, such as its brand name, prescription code, ingredients, form, route, strength, and other relevant details. |



## Drug F9 - "ehr\_file" CSV Export

The ehr\_file table is used to store electronic health record files that are related to drug F9s. It includes fields for the unique patient ID, the type of drug F9, the date and time of the record, the actual data of the record, the last modified date and time, the unique employee ID, a flag for identifying patient education resources, the date and time of identification of patient education resources, the unique location ID, a flag for whether the record has been uploaded for the patient, the date and time of the record being uploaded, a unique identifier for the record, the date and time of the record creation, and a sub-type field. This table is used in an electronic health record software system to manage and retrieve drug F9 related records.

| Column Name            | Data Type                   | Description  | Extraction Method               |
|------------------------|-----------------------------|--|---------------------------------|
| fid                    | int                         | The 'fid' column is an auto-incrementing primary key column in the 'ehr_file' table. It uniquely identifies each record in the table and is used as a reference for other tables that may have a foreign key relationship with this table. | CSV                             |
| acctid                 | int                         | The 'acctid' column is the unique patient ID that identifies each patient in the system.   | CSV                             |
| type                   | int                         | The type column represents the category or classification of the file in the EHR system.   | CSV                             |
| datet                  | datetime<br>default<br>NULL | The datet column stores the date and time when the file was created or modified.   | CSV                             |
| data                   | longblob                    | The data column in the ehr_file table contains the actual file data, such as medical records or documents, associated with each entry.   | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column represents the date and time when the data in the ehr_file record was last modified.   | CSV                             |
| empid                  | int                         | The empid column is the unique employee ID from the employees table.   | CSV                             |

|                             |                             |   |     |
|-----------------------------|-----------------------------|---|-----|
| ident_pat_edu_rsrc          | tinyint                     | The ident_pat_edu_rsrc column identifies whether the EHR file is associated with patient education resources.                               | CSV |
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column stores the date and time when the identification of patient educational resources was last modified. | CSV |
| locid                       | int                         | The locid column is the unique ID of the location where the EHR file is associated with.  | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for the patient.   | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the file was uploaded for a patient.   | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier that is automatically generated when a new record is inserted into the ehr_file table.        | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the record in the ehr_file table was initially created.                           | CSV |
| sub_type                    | int                         | The sub_type column represents the subtype of the ehr_file data.  | CSV |

## DrugList Type

The DrugList type is a container for a list of medications. It is used to store and manage information about the medications prescribed to patients within an electronic health record (EHR) software system. It provides a structured way to organize and access medication-related data, allowing healthcare providers to track and monitor medication usage, dosage, and other relevant details for each patient. A DrugList is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name           | Type             | Description  |
|-----------------------|------------------|--|
|                       | DrugList         | The member "Medication" is a list of medication instances and is used to store the medications associated with a patient in the EHR software.  |
| Medication            | List<Medication> | The Medication member of the List<Medication> type in the DrugList is used to store information about a specific medication prescribed to a patient. It contains details such as the brand name, prescription code, ingredients, form, route, generic name, strength, free text description, and a flag indicating if it belongs to a specific class of medications. |
| Medication.           | Medication       | The member "NotAClass" of the "Medication" type is used to indicate whether the medication belongs to a specific class or category.  |
| Medication..BrandName | String           | The BrandName member of the Medication Type is a string that represents the brand name of a medication. It is used to uniquely identify a specific medication product from other similar medications with different brand  |

|                                     |                            |  |
|-------------------------------------|----------------------------|--|
|                                     |                            | names.   |
| Medication..RxCode                  | String                     | The RxCode member of String Type in the Medication Type is used to store the unique identification code or number associated with a prescription medication.   |
| Medication..RxCodeValueSetCodeField | String                     | The RxCodeValueSetCodeField member of String Type in the Medication Type is a code or identifier that represents a specific value set for a medication's prescription code. It is used to classify the medication according to a predefined set of codes, allowing for standardized and organized record-keeping and analysis within the EHR software. |
| Medication..Ingredients             | List<MedicationIngredient> | The Ingredients member of the List<MedicationIngredient> type is used to store the ingredients present in a medication.  |
| Medication..Ingredients.            | MedicationIngredient       | The member "RxCode" of the MedicationIngredient type is used to store the prescription code or identifier associated with a specific medication ingredient.  |
| Medication..Ingredients..Name       | String                     | The Name member of String Type in the MedicationIngredient Type is used to store the name of the medication ingredient.  |
| Medication..Ingredients..RxCode     | String                     | The RxCode member of String Type in the MedicationIngredient Type is used to store a code or identifier for a specific medication prescription. It is used in an EHR software to uniquely identify and reference a medication in the system.   |
| Medication..Form                    | String                     | The Form member of String Type in  |

|                            |         |  |
|----------------------------|---------|--|
|                            |         | the Medication Type represents the physical form or presentation of the medication, such as tablet, capsule, liquid, or injection.   |
| Medication..Route          | String  | The Route member of type String in the Medication Type is used to store the route of administration for a medication, indicating how it is supposed to be taken or applied to the patient.   |
| Medication..Generic        | String  | The Generic member of String Type in the Medication Type represents the generic name of a medication. It is used to identify the common or non-proprietary name of a drug.   |
| Medication..Strength       | Amount  | The Strength member of the Amount type is used to store the numeric value and units of measurement for the strength of a medication. It represents the potency or concentration of the medication.   |
| Medication..Strength.Value | Decimal | The Value member of the Decimal Type in the Amount Type is used to represent a numerical value, such as a dosage or quantity, related to a medication in an Electronic Health Record (EHR) software.   |
| Medication..Strength.Units | String  | The Units member of String Type in the Amount Type is used to specify the unit of measurement for the Value member, which represents the numeric value of an amount, within the context of medication information in an EHR (Electronic Health Record) system. |
| Medication..FreeText       | String  | The FreeText member of String Type in the Medication Type is used to store any additional information or   |

|                       |         |   |
|-----------------------|---------|---|
|                       |         | free-text notes related to the medication.  |
| Medication..NotAClass | Boolean | The NotAClass member of the Boolean Type in the Medication class is used to indicate whether the medication is not classified under any specific category or class. |

## Problem - External - "ehr\_file" CSV Export

The ehr\_file table is used to store electronic health record files associated with patient data. Each file is identified by a unique file ID (fid) and is linked to a specific patient through the acctid column, which stores the patient's unique ID from the patients table. The table also includes columns for the type of file, date and time of creation (datet), the actual file data, and the last modified date and time. Additionally, there are columns for employee ID (empid), location ID (locid), and various other flags and timestamps related to patient education resources and file uploads. This table is used by an EHR software system to manage and store patient-related documents and files.

| Column Name            | Data Type                   | Description   | Extraction Method               |
|------------------------|-----------------------------|---|---------------------------------|
| fid                    | int                         | The fid column is a unique identifier for each record in the ehr_file table.  | CSV                             |
| acctid                 | int                         | The acctid column is the unique patient ID from the 'patients' table.   | CSV                             |
| type                   | int                         | The 'type' column in the 'ehr_file' table represents the specific type or category of the electronic health record file stored in the database, such as medical history, lab results, or imaging reports. | CSV                             |
| datet                  | datetime<br>default<br>NULL | The 'datet' column stores the date and time of the entry in the EHR file table. It is not nullable and uses the datetime data type in MySQL.  | CSV                             |
| data                   | longblob                    | The data column in the ehr_file table stores the actual electronic health record file for a patient.  | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the file was last modified.   | CSV                             |
| empid                  | int                         | The empid column stores the unique employee ID associated with the EHR file.  | CSV                             |

|                             |                             |  |     |
|-----------------------------|-----------------------------|--|-----|
| ident_pat_edu_rsrc          | tinyint                     | The ident_pat_edu_rsrc column indicates whether the file represents a patient educational resource. It is a binary flag, where 1 signifies that the file is a patient educational resource and 0 signifies that it is not. | CSV |
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column stores the date and time when the patient education resource was identified for the patient.  | CSV |
| locid                       | int                         | The locid column is the unique location ID from the 'locations' table.   | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for the patient.  | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the data was uploaded for the patient with the unique patient ID.   | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier generated for each record insertion in the ehr_file table, ensuring that each record has a distinct identification.  | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the record was created in the ehr_file table.  | CSV |
| sub_type                    | int                         | The sub_type column is an integer column that indicates the subtype of the ehr file.   | CSV |



## MedRecProblem Type

The MedRecProblem type is used to store information about a medical problem in an electronic health record system. It includes details such as the problem code, status, type, start date, diagnosis type, notes, and associated SNOMED code. This type is used to track and manage a patient's medical conditions and provide a comprehensive view of their health history. A MedRecProblem is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name                  | Type          | Description   |
|------------------------------|---------------|---|
|                              | MedRecProblem | The "TranslationCodeList" member of the MedRecProblem Type is used to store a list of codes that can be used to translate or map the problem to different coding systems or standards.  |
| TranslationCodeList          | List<Code>    | The TranslationCodeList member of List<Code> type in the MedRecProblem class is used to store a list of codes that represent translations or mappings of the problem to different code systems or terminologies. It provides a way to associate multiple codes with the problem, allowing for interoperability and compatibility with different healthcare systems or standards.  |
| TranslationCodeList.         | Code          | The member of Code Type within the List<Code> Type is used to store information about a specific code, such as its code string, description, code system, code system version, value set, and other relevant properties. It is utilized to represent various medical codes and their associated details in the EHR software for the purpose of documenting and retrieving information about medical conditions, treatments, and procedures. |
| TranslationCodeList..CodeStr | String        | The CodeStr member of the Code Type represents a string that contains a specific code value. It is used to identify and classify various medical concepts, such as diagnoses,   |

|  |        |  |
|--|--------|--|
|  |        | procedures, medications, and laboratory tests. This code is typically based on a standardized coding system, such as SNOMED CT or ICD-10, and is used to ensure consistency and interoperability of medical data within the EHR software.  |
| TranslationCodeList..Description       | String | The "Description" member of the String Type in the Code Type is used to store a textual description or label associated with a specific code. It provides additional information about the meaning or purpose of the code within the specific code system.   |
| TranslationCodeList..CodeSystem        | String | The CodeSystem member of String Type in the Code Type is used to store the specific code system that the code belongs to. It provides information about the source or origin of the code, indicating the standardized system or terminology used to define the code.   |
| TranslationCodeList..CodeSystemVersion | String | The CodeSystemVersion member of the String Type in the Code class is used to store the version of the code system that the code belongs to. It is used in the EHR software to provide information about the specific version of the code system being used for coding and classification purposes.           |
| TranslationCodeList..ValueSet          | String | The `ValueSet` member of type `String` in the `Code` class is used to store the unique identifier or reference to a specific value set associated with the code. This value set can provide additional information or context for the code, such as the allowed values or concepts that the code represents. |
| TranslationCodeList..id                | String | The `id` member of type `String` in the `Code` class is used to store a unique identifier for the code. This identifier can be used to reference the specific code within the EHR software and to distinguish it from other codes.   |

|  |                |  |
|--|----------------|--|
| TranslationCodeList..codeSystemName      | String         | The codeSystemName member of the String Type in the Code Type is used to identify the name of the code system that the code belongs to. It is used in the context of electronic health record (EHR) software to provide information about the specific code system from which the code is derived. |
| TranslationCodeList..valueSetVersion     | String         | The valueSetVersion member of type String in the Code Type is used to identify the version of the value set associated with a particular code.   |
| TranslationCodeList..nullFlavor          | String         | The nullFlavor member of the Code Type in the EHR software is a string that indicates the reason why a code is missing or not applicable. It is used to represent a null value or a special value indicating the absence of a valid code.  |
| TranslationCodeList..codeType            | CodeType       | The codeType member of the CodeType Type is used to identify the type of code being used, such as diagnosis code, procedure code, or medication code. It is a reference to a specific code type in the EHR software system.  |
| TranslationCodeList..codeType.id         | Int32          | The id member of the Int32 Type in the CodeType Type represents the unique identifier for a specific code type. It is used to uniquely identify different types of codes within the EHR software.  |
| TranslationCodeList..codeType.typeString | String         | The typeString member of the CodeType type is a string that represents the type of code being used for a particular medical record problem. It is used to categorize and identify different types of medical codes, such as diagnosis codes or procedure codes, within the EHR software.           |
| code                                     | SelectableItem | The `code` member of the `SelectableItem` type in the `MedRecProblem` type is used to store a code or identifier that represents a specific item or concept related to a medical   |

|                   |        |  |
|-------------------|--------|--|
|                   |        | record problem. It could be used to reference a specific diagnosis code, status code, or type code associated with a problem in the electronic health record (EHR) system.   |
| code.Text         | String | The Text member of the SelectableItem Type is used to store the display text or label associated with the selectable item. It is used to provide human-readable information to the user, such as the name or description of a code or status.  |
| code.Code         | String | The Code member of String Type in the SelectableItem Type is used to store a code that represents a specific value or concept. It is used for code mapping or referencing specific codes within the EHR software.  |
| code.Data         | Object | The Data member of the Object Type in the SelectableItem Type is used to store additional data related to the selectable item. It can be used for various purposes depending on the specific implementation of the EHR software, such as storing additional information, metadata, or custom data associated with the selectable item. |
| code.CodingSystem | String | The CodingSystem member of String Type in the SelectableItem Type is used to store the coding system or standard that is used for the corresponding value in the SelectableItem. This could be a standardized code system like SNOMED CT or LOINC, or a custom coding system used within the EHR software.                             |
| code.ValueSet     | String | The ValueSet member of the String Type in the SelectableItem Type is used to store a code or identifier that references a set of values used for selecting or categorizing a specific item in an EHR software system. It is used to provide a standardized list of options for users to choose from when selecting a                   |

|                            |        |   |
|----------------------------|--------|---|
|                            |        | value for a particular field or attribute.  |
| code.Nullflavor            | String | The Nullflavor member of the String Type in the SelectableItem Type is used to indicate the absence or unknown value for a particular data element in the electronic health record (EHR) software. It provides a standardized way to represent missing or unspecified data. |
| code.EnumCat               | Int32  | The EnumCat member of type Int32 in the SelectableItem type is used as a numerical category or enumeration to identify different categories or types of selectable items in the EHR software.   |
| code.adminSiteSystem       | String | The adminSiteSystem member of type String in the SelectableItem class is used to store the coding system or identifier for the administrative site associated with the selectable item.   |
| code.immzObservationSystem | String | The immzObservationSystem member is used to store the system or source from which immunization observation data is obtained or recorded in the EHR software.  |
| code.immzInfSourceSystem   | String | The immzInfSourceSystem member of the SelectableItem Type is used to identify the system or source from which the immunization information is obtained in an Electronic Health Record (EHR) software.   |
| code.ucumSystem            | String | The ucumSystem member of String Type in the SelectableItem Type is used to store the unit of measurement system for a selected item in the EHR software.  |
| code.refusalSystem         | String | The refusalSystem member of String Type in the SelectableItem Type is used to capture the system or coding used to indicate refusal or rejection of a specific healthcare intervention or treatment by a patient.   |
| code.relationshipSystem    | String | The `relationshipSystem` member of type `String` in the `SelectableItem` class is used  |

|                         |            |   |
|-------------------------|------------|---|
|                         |            | to define the coding system or standards that are used for representing relationship codes. It provides a standardized way to identify the system or set of codes used to describe the relationships between different healthcare entities or elements within the electronic health record (EHR) software.  |
| code.langLinking        | String[][] | The langLinking member of type String[][] in the SelectableItem class is used for language linking in the EHR software. It may be used to store a mapping or relationship between different language codes or translations related to the selectable item.  |
| code.langLinking.       | String[]   | The member of the String[] Type, which is a member of the String[][] Type, is used to store multiple strings of data within a two-dimensional array structure. It could be used to represent a collection of related data elements or values, such as a list of codes, names, or other information that needs to be organized and accessed in a structured manner in the context of the EHR software. |
| code.langLinking..      | String     | The member of String Type, which is a member of the String[] Type, is used to store an array of strings in the EHR software. It could be used to store multiple values or options related to a specific field or attribute, allowing for flexibility and customization within the software.   |
| code.linking            | String[][] | The linking member of the String[][] type in the SelectableItem class is used to store a collection of related information or references to external resources. It is used to link or associate the SelectableItem instance with other data or resources within the EHR software system, such as additional clinical information, references to medical literature, or related documentation.         |
| code.languageCodeSystem | String     | The languageCodeSystem member in the SelectableItem type is used to store the   |

|                    |                |   |
|--------------------|----------------|---|
|                    |                | coding system for the language used in the selectable item. It is used to identify the standardized coding system or terminology that represents the language of the selectable item in the EHR software.   |
| status             | SelectableItem | The status member of the SelectableItem type in the MedRecProblem type is used to represent the status or condition of a particular item in the electronic health record (EHR). It is used to indicate the current state or state of the item, such as whether it is active, inactive, completed, or pending. |
| type               | SelectableItem | The type member of the SelectableItem Type in the MedRecProblem Type is used to identify the type or category of the selectable item.   |
| fid                | Int32          | The fid member of the MedRecProblem Type is used as a unique identifier for the problem entry in the EHR software.  |
| startDate          | DateTime       | The startDate member of DateTime Type in the MedRecProblem Type is used to store the date when a specific problem was started or diagnosed for a patient in an Electronic Health Record (EHR) software.   |
| importType         | importDiagType | The importType member of the importDiagType Type in the MedRecProblem Type is used to indicate the source or method of importing a diagnosis in an EHR software.  |
| importType.value__ | Int32          | The value__ member of the Int32 Type in the importDiagType Type is an internal representation of the enum value. It is used to store and retrieve the numeric value associated with each enum value.  |
| importType.CPM     | importDiagType | The CPM member of the importDiagType type is used to indicate that a diagnosis has been imported from a clinical performance  |

|                       |                |  |
|-----------------------|----------------|--|
|                       |                | measure (CPM) system.  |
| importType.CPMMedComp | importDiagType | The CPMMedComp member of the importDiagType type is used to represent a diagnosis that has been imported from a CPMMedComp system, which is a specific type of medical software used in the EHR system.  |
| importType.Imported   | importDiagType | The "Imported" member of the importDiagType enum is used to indicate that the problem record has been imported from an external source into the EHR software.  |
| diagnosisType         | Char           | The diagnosisType member of the Char Type in the MedRecProblem Type is used to indicate the type or category of the diagnosis for a particular medical problem.  |
| notes                 | String         | The "notes" member of the MedRecProblem Type is used for storing additional information or comments related to the specific problem being recorded in the electronic health record (EHR) software.   |
| snomedCode            | Code           | The snomedCode member of the Code Type in the MedRecProblem Type is used to store the SNOMED CT code for a particular problem or diagnosis. SNOMED CT is a widely used clinical terminology system that provides standardized codes for medical concepts, allowing for consistent representation and exchange of healthcare information. |
| ignoreSnomedCode      | Boolean        | The ignoreSnomedCode member of Boolean Type in the MedRecProblem type is used to indicate whether or not the SNOMED code associated with the problem should be ignored or considered when processing the data in the EHR software.   |



## Medication - External - "ehr\_file" CSV Export

The ehr\_file table is used to store external medication data within an electronic health record (EHR) system. It contains information such as the patient ID, type of medication, date and time of the medication record, and the actual medication data. This table also includes other fields such as the last modified datetime, employee ID, location ID, and various timestamps for patient education resources and file uploads. It is used to track and manage medication information for patients in the EHR system.

| Column Name            | Data Type                   | Description   | Extraction Method               |
|------------------------|-----------------------------|---|---------------------------------|
| fid                    | int                         | The 'fid' column is a unique identifier for each record in the 'ehr_file' table.  | CSV                             |
| acctid                 | int                         | The 'acctid' column is the unique patient ID associated with the record in the 'ehr_file' table.  | CSV                             |
| type                   | int                         | The type column in the ehr_file table represents the type of electronic health record file.   | CSV                             |
| datet                  | datetime<br>default<br>NULL | The 'datet' column is the date and time when the file was created or modified.  | CSV                             |
| data                   | longblob                    | The data column contains the actual file data, such as an electronic health record file, in binary format.                                      | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the record in the ehr_file table was last modified.                             | CSV                             |
| empid                  | int                         | The empid column represents the unique employee ID from the 'employees' table.  | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column is a boolean flag indicating whether or not the file in the record is identified as a patient education resource. | CSV                             |

|                             |                             |  |     |
|-----------------------------|-----------------------------|--|-----|
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column stores the date and time when the identification of patient education resources was last modified.  | CSV |
| locid                       | int                         | The locid column is the unique identifier for the location where the EHR file is associated with.  | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for the patient.  | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the file was uploaded for the patient.  | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a varchar(32) column in the ehr_file table. It stores a unique identifier for each row inserted into the table. This identifier is automatically generated and assigned to the row upon insertion. | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column represents the date and time when the record in the ehr_file table was created.  | CSV |
| sub_type                    | int                         | The sub_type column represents the specific sub-category or subtype of the file stored in the EHR system.  | CSV |

## BasicOrder Type

The BasicOrder Type is a data structure that represents a basic order for a medical test or procedure within an Electronic Health Record (EHR) system. It contains information such as the performing laboratory, provider details, order status, order ID, name of the test/procedure, scheduling details, last modified date, and additional notes. It also includes a list of observation requests for specific measurements or data to be collected during the test/procedure. Overall, the BasicOrder Type serves as a standardized format for recording and managing orders within an EHR system. A BasicOrder is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name   | Type             | Description  |
|---------------|------------------|--|
|               | BasicOrder       | The "Lab" member of the BasicOrder Type is used to store the identifier for a specific laboratory test or analysis associated with the order.  |
| Lab           | Int32            | The Lab member of Int32 Type in the BasicOrder Type is used to store the identifier or code representing a specific laboratory test or procedure that is being ordered or requested. |
| PerformingLab | OrganizationType | The PerformingLab member of the OrganizationType type in the BasicOrder type is used to store information about the laboratory or facility where the order is being performed.       |

|                        |        |   |
|------------------------|--------|---|
| PerformingLab.Name     | String | The Name member of the OrganizationType type is used to store the name of the organization associated with the healthcare data in the EHR system.   |
| PerformingLab.ID       | String | The ID member of type String in the OrganizationType class is used to store a unique identifier for the organization. This identifier could be used for purposes such as system integration, data linking, and reference identification within the EHR software.                              |
| PerformingLab.IDType   | String | The IDType member of String Type is used to specify the type of identifier being used for the ID of the organization in the EHR system. It could be used to indicate whether the ID is a medical record number, social security number, or any other type of identifier for the organization. |
| PerformingLab.TypeCode | String | The TypeCode member of the String Type in the OrganizationType Type is used to specify the code that represents the type or category of the organization. It could be used to classify the organization according to a  |

|  |                    |   |
|--|--------------------|---|
|  |                    | standardized coding system such as HL7, ICD, or SNOMED CT.  |
| PerformingLab.AssigningAuthority             | AssigningAuthority | The AssigningAuthority member of the AssigningAuthority Type is used to store information about the assigning authority responsible for assigning unique identifiers to the organization represented by the OrganizationType. It could include details such as the namespace ID, UID (Unique Identifier), and UID Type. |
| PerformingLab.AssigningAuthority.NamespaceID | String             | The NamespaceID member of String Type in the AssigningAuthority Type is used to identify the namespace or domain in which the UID (Universally Unique Identifier) is assigned.  |
| PerformingLab.AssigningAuthority.UID         | String             | The UID member of the AssigningAuthority Type is a unique identifier that is used to uniquely identify the assigning authority within the EHR software system.  |
| PerformingLab.AssigningAuthority.UIDType     | String             | The UIDType member of String Type in the AssigningAuthority Type is used to specify   |

|  |             |   |
|--|-------------|---|
|  |             | the type of the unique identifier (UID) for the assigning authority.  |
| PerformingLab.Address                  | AddressType | The Address member of the AddressType Type is used to store the address information of an organization, such as the street, city, state, zip code, and country. It is used to identify the location of the organization within the electronic health record (EHR) software.   |
| PerformingLab.Address.Street           | String      | The Street member of String Type in the AddressType Type is used to store the street address of a particular location. It represents the specific street name and number where the address is located.  |
| PerformingLab.Address.OtherDesignation | String      | The OtherDesignation member of String Type in the AddressType Type is used to store any additional designation or identifier for a street address that may be relevant in the context of the electronic health record (EHR) software. This could include apartment numbers, building names, or other specific details that provide further clarification or identification of the |

|                             |        |  |
|-----------------------------|--------|--|
|                             |        | address.   |
| PerformingLab.Address.City  | String | The City member of String Type in the AddressType Type is used to store the city name of an address in an Electronic Health Record (EHR) system.   |
| PerformingLab.Address.State | String | The State member of the String Type in the AddressType represents the state or province of an address in the electronic health record (EHR) software.  |
| PerformingLab.Address.Zip   | String | The Zip member of type String in the AddressType represents the postal code of a particular address. It is used to store the zip code associated with the address in the EHR software.   |
| PerformingLab.Address.Type  | String | The Type member of String Type in the AddressType Type is used to indicate the type of the address, such as "Home", "Work", "Mailing", or "Billing". It identifies the purpose or category of the address within the EHR software. |
| PerformingLab.Address.Text  | String | The "Text" member of the String Type in the AddressType Type is used to store additional descriptive text related  |

|  |           |  |
|--|-----------|--|
|  |           | to the address. It could be used to provide extra information or clarification about the address, such as apartment number, building name, or specific directions.   |
| PerformingLab.Address.Country          | String    | The Country member of the String Type in the AddressType is used to store the country name or code associated with the address.  |
| PerformingLab.Address.CountyParishCode | String    | The CountyParishCode member of the AddressType type is a string that represents the code or identifier for the county or parish associated with an address. It is used to provide specific location information within the address field for EHR software. |
| PerformingLab.Phone                    | PhoneType | The Phone member of the PhoneType Type is used to store the area code and number of a phone associated with an organization, such as a performing lab or healthcare provider.  |
| PerformingLab.Phone.AreaCode           | String    | The AreaCode member of the PhoneType type is a string that represents the area code of a phone number. It is used to store the numerical   |



|                            |        |   |
|----------------------------|--------|---|
|                            |        | code that identifies a specific geographic region or location associated with the phone number.   |
| PerformingLab.Phone.Number | String | The Number member of the String Type in the PhoneType Type is used to store the phone number of a contact.  |
| ProviderEmpID              | Int32  | The ProviderEmpID member of type Int32 in the BasicOrder type is used to store the unique identifier or employee ID of the healthcare provider who is associated with the order.                                |
| Type                       | String | The Type member of String Type in the BasicOrder Type is used to specify the type or category of the order, such as medication order, lab order, or imaging order.  |
| Status                     | String | The "Status" member of type String in the BasicOrder type is used to represent the current status or state of the order. It provides information about the progress or completion status of the specific order. |
| OrderID                    | String | The OrderID member of String type in the BasicOrder type is used  |

|                   |          |  |
|-------------------|----------|--|
|                   |          | to uniquely identify an order within the electronic health record (EHR) system. It is a system-generated or user-defined identifier that allows for easy reference and tracking of orders throughout the EHR system.   |
| FillerOrderNumber | String   | The FillerOrderNumber member of type String in the BasicOrder class is used to store a unique identifier or reference number assigned to the order by the external system or entity filling the order.   |
| Name              | String   | The Name member of String Type in the BasicOrder Type is used to store the name or title of the order.   |
| Item              | Object   | The Item member of the BasicOrder Type is used to store additional details or specific information related to the order. It could be used to capture any extra data or attributes associated with the order that are not covered by the other properties of the BasicOrder Type. |
| Date              | DateTime | The Date member of the DateTime Type in the BasicOrder Type is   |

|                  |          |  |
|------------------|----------|--|
|                  |          | used to represent the date on which the order was created or initiated in the electronic health record (EHR) software.   |
| EndDate          | DateTime | The EndDate member of the DateTime Type in the BasicOrder Type is used to indicate the end date or time of an order or event in an electronic health record (EHR) system. It represents the point at which an order or event is scheduled to conclude or expire.   |
| LastModifiedDate | DateTime | The LastModifiedDate member of the BasicOrder Type is a DateTime value that represents the date and time when the order was last modified in the EHR software. It is used to track and record the most recent modification made to the order, providing a timestamp for reference and auditing purposes. |
| Code             | String   | The `Code` member of type `String` in the `BasicOrder` class is used to store a code or identifier associated with the order. This code could be used for various purposes, such as identifying the specific type of order or  |

|              |                          |  |
|--------------|--------------------------|--|
|              |                          | linking it to a specific protocol or guideline.  |
| Notes        | List<String>             | The Notes member of List<String> Type in the BasicOrder Type is used to store additional textual information or comments related to the order.   |
| Notes.       | String                   | The member of String Type in the List<String> Type is used to store a single string value. It is used to store additional notes or comments related to the basic order.  |
| ObsRequests  | List<ObservationRequest> | The ObsRequests member of List<ObservationRequest> Type in the BasicOrder Type is used to store a list of observation requests associated with a specific order. These observation requests typically contain information such as the order number, service ID, observation time, clinical information, provider information, status, and results. It allows the EHR software to track and manage multiple observation requests within a single order. |
| ObsRequests. | ObservationRequest       | The member of the ObservationRequest   |

|                                       |                  |  |
|---------------------------------------|------------------|--|
|                                       | t                | Type, which is a member of the List<ObservationRequest> Type, is used to store multiple observation requests for a given BasicOrder.   |
| ObsRequests..OrderNumber              | EntityIdentifier | The OrderNumber member of the EntityIdentifier type is used to uniquely identify a specific order within the EHR software. It is used as a reference or identifier for tracking and managing orders within the system.   |
| ObsRequests..OrderNumber.EntityID     | String           | The EntityID member is a unique identifier that is used to identify an entity within the EHR software. It is used to reference or link the entity to other related information or data within the system.  |
| ObsRequests..OrderNumber.EntityIDType | String           | The EntityIDType member of String Type in the EntityIdentifier Type is used to represent the type of identifier for an entity within the EHR system. It could potentially indicate various types such as a national identifier, local identifier, or unique identifier specific to the entity. |

|                                      |                  |   |
|--------------------------------------|------------------|---|
| ObsRequests..OrderNumber.NamespaceID | String           | The NamespaceID member of the String Type in the EntityIdentifier Type is used to represent the identifier namespace or domain in which the entity identifier is unique within the EHR software.  |
| ObsRequests..OrderNumber.UID         | String           | The UID member of the String Type in the EntityIdentifier Type is used to represent a unique identifier for the entity. It is used for identifying and distinguishing one entity from another within the EHR software.                      |
| ObsRequests..OrderNumber.UIDType     | String           | The UIDType member of String Type represents the type of unique identifier used in the EntityIdentifier. It is used to specify the format or standard of the unique identifier, such as UUID or HL7.  |
| ObsRequests..FillerOrderNumber       | EntityIdentifier | The FillerOrderNumber member of the EntityIdentifier type is used to uniquely identify a specific order within the filling process. It may be used to track and match orders with their corresponding results or to provide a reference for |

|                                |                  |   |
|--------------------------------|------------------|---|
|                                |                  | communication and coordination between different entities involved in the order fulfillment process.  |
| ObsRequests..PlacerGroupNumber | EntityIdentifier | The PlacerGroupNumber member of the EntityIdentifier class in the ObservationRequest type is used to uniquely identify a group of related orders placed by the same entity or system. This identifier is assigned by the ordering entity or system and is used for tracking and managing multiple orders that are associated with a common grouping or batch. |
| ObsRequests..ServiceID         | HL7CodeType      | The ServiceID member of the HL7CodeType Type is used to identify the specific service or procedure requested in an ObservationRequest within an EHR software.   |
| ObsRequests..ServiceID.Code    | String           | The Code member of String Type in the HL7CodeType Type is used to store a specific code value that represents a medical concept or item. This code is typically used to identify and reference the concept or item within the EHR   |

|  |        |  |
|--|--------|--|
|  |        | software system.   |
| ObsRequests..ServiceID.Name                | String | The Name member of type String in the HL7CodeType is used to store the name or description associated with the specific HL7 code.  |
| ObsRequests..ServiceID.CodingSystem        | String | The CodingSystem member of String Type in the HL7CodeType Type is a field used to identify the coding system or standard used for the particular code value.   |
| ObsRequests..ServiceID.CodingSystemVersion | String | The CodingSystemVersion member of String Type in the HL7CodeType Type is used to specify the version of the coding system that is being used for the code. This version information helps in accurately interpreting and exchanging the coded data within the Electronic Health Record (EHR) software. |
| ObsRequests..ServiceID.AlternateCode       | String | The AlternateCode member of the HL7CodeType type is a string that represents an alternative code value for a specific medical concept or term. It is used in the EHR software to provide a secondary   |



|   |        |  |
|---|--------|--|
|   |        | code that can be used for cross-referencing or mapping purposes, such as when translating between different coding systems or versions.  |
| ObsRequests..ServiceID.AlternateName                | String | The AlternateName member of String Type in the HL7CodeType is used to store an alternative name or description for a specific code or value in the HL7 coding system. It provides an additional reference or label that can be used for the code, for better understanding or mapping purposes in the context of the EHR software. |
| ObsRequests..ServiceID.AlternateCodingSystem        | String | The AlternateCodingSystem member of type String within the HL7CodeType is used to store an alternate coding system value for a particular code. This could be used in the context of healthcare records to accommodate different coding systems used by different organizations or to provide additional coding information.       |
| ObsRequests..ServiceID.AlternateCodingSystemVersion | String | The AlternateCodingSystemVersion member of   |

|                                     |          |   |
|-------------------------------------|----------|---|
|                                     |          | String Type in the HL7CodeType Type is used to store an alternate version number or identifier of the coding system used for the code. This can be useful in cases where there are multiple versions or variants of the coding system being referenced.                       |
| ObsRequests..ServiceID.OriginalText | String   | The OriginalText member of String Type in the HL7CodeType is used to store the original text description associated with a code. This description provides additional context or clarification about the code and is typically used for display purposes in the EHR software. |
| ObsRequests..ObsTime                | DateTime | The ObsTime member of the DateTime Type in the ObservationRequest Type is used to store the date and time when an observation or test was taken or performed.   |
| ObsRequests..ObsTimeEnd             | DateTime | The ObsTimeEnd member of DateTime Type in the ObservationRequest Type is used to indicate the end time of the observed event or   |

|                                |              |  |
|--------------------------------|--------------|--|
|                                |              | measurement.   |
| ObsRequests..ClinicalInfo      | HL7CodeType  | The ClinicalInfo member in the HL7CodeType Type is used to store additional clinical information related to the observation request. It may contain details such as the reason for the study, relevant medical history, or any other relevant information provided by the ordering physician or healthcare provider. |
| ObsRequests..Provider          | ProviderType | The Provider member of the ProviderType Type in the ObservationRequest Type is used to store information about the healthcare provider associated with the observation request.  |
| ObsRequests..Provider.Provider | PersonType   | The Provider member of the PersonType Type in the ProviderType Type is used to store information about the healthcare provider associated with a particular order. This could include the provider's name, ID, address, phone number, date of birth, gender, race, and any additional notes or comments related to   |

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|   |          | the provider.  |
| ObsRequests..Provider.Provider.Name                     | NameType | The Name member of the NameType Type in the PersonType Type is used to store the name of a person, including their given name, family name, surname, second name or initial, suffix, and prefix. It is used to accurately identify and display the name of the person in the EHR software. |
| ObsRequests..Provider.Provider.Name.FamilyName          | String   | The FamilyName member of type String in the NameType type is used to store the family or surname of an individual.   |
| ObsRequests..Provider.Provider.Name.Surname             | String   | The Surname member of the String Type in the NameType Type is used to store the last name or family name of a person.  |
| ObsRequests..Provider.Provider.Name.GivenName           | String   | The GivenName member of String Type in the NameType Type is used to store the first or given name of a person.   |
| ObsRequests..Provider.Provider.Name.SecondNameOrInitial | String   | The SecondNameOrInitial member in the NameType type represents the second name or initial of an individual's name. It is used to provide   |

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|  |        | additional information about the individual's name, such as a middle name or initial.  |
| ObsRequests..Provider.Provider.Name.Suffix       | String | The Suffix member of the String Type in the NameType Type is used to store the suffix or title that is associated with a person's name, such as Jr., Sr., or PhD.                          |
| ObsRequests..Provider.Provider.Name.Prefix       | String | The Prefix member of the String Type in the NameType Type is used to store a prefix or title that is associated with a person's name, such as "Dr.", "Mr.", or "Ms.".                      |
| ObsRequests..Provider.Provider.Name.NameTypeCode | String | The NameTypeCode member of type String in the NameType class is used to specify the code that identifies the type of name being represented, such as a family name, given name, or prefix. |
| ObsRequests..Provider.Provider.ID                | String | The ID member of String Type in the PersonType Type is used to store a unique identifier for a person, such as a patient or healthcare provider, in the EHR software.                      |
| ObsRequests..Provider.Provider.IDType            | String | The IDType member of the String Type in the PersonType Type is used to specify the type of identification (ID)   |

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|   |                    | associated with a person. It represents the type of document or system that issued the ID, such as a driver's license, passport, or social security number.   |
| ObsRequests..Provider.Provider.AssigningAuthority | AssigningAuthority | The AssigningAuthority member of the AssigningAuthority Type in the PersonType Type is used to provide information about the assigning authority or organization responsible for assigning unique identifiers (such as patient IDs or provider IDs) within the EHR system. This information helps in accurately identifying and distinguishing individuals within the system. |
| ObsRequests..Provider.Provider.Address            | AddressType        | The Address member of the AddressType Type in the PersonType Type is used to store the address information of a person, such as street, city, state, zip code, and country. This information is commonly used in electronic health record (EHR) systems to maintain accurate patient records and facilitate   |

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|  |                    | communication with patients and healthcare providers.  |
| ObsRequests..Provider.Provider.PhoneNumber | PhoneType          | The PhoneNumber member of the PhoneType type is used to store the phone number of a person.  |
| ObsRequests..Provider.Provider.DateOfBirth | DateTime           | The DateOfBirth member of the DateTime Type in the PersonType Type is used to store the date of birth of a person.   |
| ObsRequests..Provider.Provider.Gender      | String             | The Gender member of String Type in the PersonType represents the gender of a person. It is used to record the gender information of a patient in an EHR software.             |
| ObsRequests..Provider.Provider.Race        | HL7CodeType        | The Race member of the HL7CodeType type in the PersonType type is used to store information about a person's racial background.  |
| ObsRequests..Provider.Provider.Notes       | List<String>       | The Notes member of the List<String> type in the PersonType type is used to store additional textual information or comments related to a person's record in the EHR software. |
| ObsRequests..Provider.AssigningAuthority   | AssigningAuthority | The AssigningAuthority member of the   |

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|                             |          | <p>ProviderType type is used to store information about the authority responsible for assigning unique identifiers to healthcare providers. It may contain fields such as NamespaceID, UID, and UIDType to identify the specific authority and the type of identifier being assigned.</p> |
| ObsRequests..Provider.Empid | Int32    | <p>The Empid member of type Int32 in the ProviderType class is used to store the unique identifier or employee ID of the provider associated with the order. This ID could be used for tracking and identification purposes within the EHR software system.</p>                           |
| ObsRequests..StatusTime     | DateTime | <p>The StatusTime member of the DateTime Type in the ObservationRequest Type is used to indicate the date and time when the status of the observation request was last modified or updated in the electronic health record (EHR) system.</p>  |
| ObsRequests..Status         | String   | <p>The Status member of String type in the ObservationRequest class is used to indicate</p>   |



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|                               |                   | the current status or progress of the observation request. It could be used to track whether the request is pending, in progress, completed, or cancelled. However, without additional information from the EHR software, it is impossible to provide a definitive answer.   |
| ObsRequests..reasonsForStudy  | List<HL7CodeType> | The reasonsForStudy member of the ObservationRequest type is used to store the reasons for ordering a specific study or test as part of an electronic health record (EHR) system. It is a list of HL7CodeType objects that provide information about the codes, names, coding systems, and versions associated with each reason for study. |
| ObsRequests..reasonsForStudy. | HL7CodeType       | The member of the HL7CodeType type that is a member of the List<HL7CodeType> type is used to store information about medical codes, such as diagnosis codes or procedure codes. These codes are used in healthcare systems to categorize and identify specific medical   |

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|  |                         | concepts, allowing for standardized communication and documentation.  |
| ObsRequests..Results                     | List<ObservationResult> | The Results member of List<ObservationResult> Type is used to store the results or findings of a specific observation or test requested in the ObservationRequest.  |
| ObsRequests..Results.                    | ObservationResult       | The member of the ObservationResult Type in the List<ObservationResult> Type is used to store information related to an individual observation result within the context of a larger observation request. |
| ObsRequests..Results..ParentType         | ParentType              | The ParentType member of the ParentType type in the ObservationResult type is used to indicate the type of parent entity to which the observation result belongs.   |
| ObsRequests..Results..ParentType.value__ | Int32                   | The value__ member of Int32 Type in the ParentType Type is used to represent the underlying numeric value of the ParentType enum. It is an internal representation used by the .NET framework for         |

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|   |            | enum types.   |
| ObsRequests..Results..ParentType.None               | ParentType | The None member of the ParentType type is used to indicate that there is no parent type associated with the specific instance of observation request or immunization. It is used in the EHR software to represent a scenario where the observation request or immunization does not have any parent type.             |
| ObsRequests..Results..ParentType.Immunization       | ParentType | The Immunization member of the ParentType Type is used to store information related to immunizations within an electronic health record (EHR) software. This member may contain data such as the type of immunization, the date it was administered, and any additional details or notes related to the immunization. |
| ObsRequests..Results..ParentType.ObservationRequest | ParentType | The ObservationRequest member of the ParentType Type is used to store information about specific observation requests made within a healthcare order. It may include details such as the type of observation  |

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|  |          | requested, the parameters for the observation, and any additional notes or instructions related to the request.  |
| ObsRequests..Results..AssignedCodeType         | CodeType | The AssignedCodeType member of the CodeType Type in the ObservationResult Type is used to specify the type of code that is assigned to an observation result. It is used to categorize or identify the nature of the observation result based on a specific coding system or standard. |
| ObsRequests..Results..AssignedCodeType.value__ | Int32    | The value__ member of the Int32 Type in the CodeType Type is used to store the underlying integer value of the CodeType enumeration.   |
| ObsRequests..Results..AssignedCodeType.None    | CodeType | The None member of the CodeType type is used to indicate that no specific code type is assigned or identified. It represents a default or empty value for the code type in the context of the EHR software.  |
| ObsRequests..Results..AssignedCodeType.ELLKAY  | CodeType | The ELLKAY member of the CodeType Type is used as a code identifier for interfacing with the ELLKAY system.  |

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|   |                             | It is used within the EHR software to establish a connection or perform specific operations with the ELLKAY system, which could include data exchange, reporting, or other functionalities related to the ELLKAY platform.   |
| ObsRequests..Results..IdentifierSelectionType | Nullable<CodeSelectionType> | The IdentifierSelectionType member of Nullable<CodeSelectionType> Type in the ObservationResult Type is used to indicate the type of selection made for identifying the code associated with the observation result. For example, it could be used to specify whether the code was selected from a predefined list, manually entered by the user, or generated based on some other criteria. |
| ObsRequests..Results..ValueType               | String                      | The ValueType member of the String Type in the ObservationResult Type is used to indicate the data type or format of the value stored in the Value member. It specifies how the value should be interpreted or displayed, such as text, numeric, date, or boolean, among others.   |

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| ObsRequests..Results..ObsID    | HL7CodeType | The ObsID member of the HL7CodeType Type is a code that represents the identifier for a specific observation or test result. It is used to uniquely identify different types of observations or test results within the EHR software system. This allows for accurate tracking and categorization of the data for reporting and analysis purposes. |
| ObsRequests..Results..ObsSubID | String      | The ObsSubID member of String Type in the ObservationResult Type is used to specify a sub-identifier for the observation result. It is used to further classify or categorize the observation result within the EHR software.  |
| ObsRequests..Results..Value    | String      | The Value member of type String in the ObservationResult class is used to store the actual measured or observed value of the specific observation or result. It represents the quantitative or qualitative result of a laboratory test or clinical measurement.  |
| ObsRequests..Results..Units    | HL7CodeType | The Units member of the HL7CodeType type   |

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|                                      |        | in the ObservationResult type is used to represent the units of measurement associated with the value of a specific observation or result.   |
| ObsRequests..Results..ReferenceRange | String | The ReferenceRange member of String Type in the ObservationResult Type is used to store the reference range values for an observed result. These values represent the normal or acceptable range for a specific laboratory test or measurement.                        |
| ObsRequests..Results..Flag           | String | The Flag member of type String in the ObservationResult class is used to indicate the flag status of the observation result. It could be used to convey additional information about the result, such as whether it is abnormal, critical, or within the normal range. |
| ObsRequests..Results..Status         | String | The Status member of ObservationResult is a string that represents the current status of the observation result. It is used to indicate the current state or condition of the result, such as whether it is  |

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|   |                  | final, preliminary, corrected, etc.   |
| ObsRequests..Results..ObsTime               | DateTime         | The ObsTime member of DateTime Type in the ObservationResult Type is used to store the date and time when the observation was made or recorded.   |
| ObsRequests..Results..AnalysisTime          | DateTime         | The AnalysisTime member of the DateTime Type in the ObservationResult Type is used to capture the time when the analysis of the observation result was performed by the testing facility or laboratory. |
| ObsRequests..Results..PerformingOrg         | OrganizationType | The PerformingOrg member of the OrganizationType Type in the ObservationResult Type is used to represent the organization that is responsible for performing a specific observation or test.            |
| ObsRequests..Results..PerformingOrgDirector | PersonType       | The PerformingOrgDirector member of the PersonType Type in the ObservationResult Type is used to represent the director or supervisor of the organization that performed the observation or test.       |



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| ObsRequests..Results..Notes                   | List<String> | The Notes member of type List<String> in the ObservationResult type is used to store any additional text or comments related to the observation result.  |
| ObsRequests..Results..AbnormalFlags           | List<HL7_ID> | The AbnormalFlags member of the List<HL7_ID> Type in the ObservationResult Type is used to store a list of abnormal flags associated with a specific observation result. These flags indicate any abnormal or out-of-range values for the observation. |
| ObsRequests..Results..AbnormalFlags.          | HL7_ID       | The member of the HL7_ID type within the List<HL7_ID> type is used to store an ID value and a flag indicating if the ID is complete or not.  |
| ObsRequests..Results..AbnormalFlags..value    | String       | The value member of the String Type in the HL7_ID Type is used to store the actual value or identifier associated with the HL7 ID.   |
| ObsRequests..Results..AbnormalFlags..complete | Boolean      | The complete member of the Boolean Type in the HL7_ID Type is used to indicate whether the value of the HL7_ID is complete or not. It is used to determine if the HL7_ID value contains all the  |

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|  |          | necessary components or if it is missing any information.  |
| ObsRequests..Results..NatureOfAbnormalTest             | HL7_ID   | The NatureOfAbnormalTest member of the HL7_ID Type in the ObservationResult Type is used to indicate the nature or type of abnormality in a test result.   |
| ObsRequests..Results..DataLastObsNormalValues          | DateTime | The DataLastObsNormalValues member of DateTime Type in the ObservationResult Type is used to store the date and time of the last observation of normal values for a particular test or measurement. It is used to track the most recent instance where the observed values for a specific test were within the normal range. |
| ObsRequests..Results..DataLastObsNormalValuesSpecified | Boolean  | The DataLastObsNormalValuesSpecified member of Boolean Type in the ObservationResult class is used to indicate whether the DataLastObsNormalValues property has a specified value or not. It is used to determine if the last observed normal values for the   |

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|  |        | observation result are provided or not.   |
| ObsRequests..Results..ProducersId              | HL7_CE | The ProducersId member of the HL7_CE Type in the ObservationResult Type is used to identify the organization or entity responsible for producing or generating the observation result.  |
| ObsRequests..Results..ProducersId.identifier   | String | The identifier member of the String Type in the HL7_CE Type is used to store a unique identifier associated with a particular concept or code in the HL7 messaging standard.  |
| ObsRequests..Results..ProducersId.text         | String | The text member of the String Type in HL7_CE is used to store the textual representation or description of a particular code value. It is used to provide additional information or explanation about the code used in the context of an Electronic Health Record (EHR) software. |
| ObsRequests..Results..ProducersId.codingSystem | String | The codingSystem member of type String in the HL7_CE type is used to identify the coding system or standard that is being used for the code in the identifier member. It specifies the specific set   |

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|   |        | of codes or terminology used for the identifier.  |
| ObsRequests..Results..ProducersId.alternateIdentifier   | String | The alternateIdentifier member of String Type in HL7_CE is used to store an alternate identifier value for a specific code or text. It is used in the context of Electronic Health Record software to provide an alternative identifier for a specific piece of information or data, such as a medical code or text description.            |
| ObsRequests..Results..ProducersId.alternateText         | String | The alternateText member in the HL7_CE Type is used to store an alternate text description for the identifier. It provides an optional additional description that can be used in specific contexts or scenarios, such as when the primary text description is not sufficient or when different variations of the description are required. |
| ObsRequests..Results..ProducersId.alternateCodingSystem | String | The alternateCodingSystem member of String Type in the HL7_CE Type is used to represent an alternate coding system or classification for the identifier or code   |

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|  |          | represented by the HL7_CE object. It provides an alternative way to identify or classify data, which may be useful in cases where different coding systems are used or when there is a need to reference an alternative classification for the data.   |
| ObsRequests..Results..ProducersId.complete | Boolean  | The complete member of the Boolean Type in the HL7_CE Type is used to indicate whether the HL7_CE object is complete or not. It could be used to signify if all the relevant information for the identifier, text, and codingSystem fields has been provided.  |
| ObsRequests..Results..ResponsibleObserver  | Provider | The ResponsibleObserver member of the Provider Type is used to store information about the healthcare provider who is responsible for observing or overseeing the execution of an observation or test specified in the ObservationResult Type. This provider may be responsible for interpreting the results and making recommendations based on the findings. |

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| ObsRequests..Results..ResponsibleObserver.DataTypeField                      | DataType | The DataTypeField member of the DataType Type in the Provider Type is used to indicate the type of data being stored in the Provider object.  |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.<br>value__          | Int32    | The value__ member of the Int32 DataType represents the underlying value of an enumeration type. In this case, it is used to store the numeric value corresponding to the DataType enum option when it is used in the EHR software. |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.<br>.EnteredBy       | DataType | The EnteredBy member of the DataType Type is used to store information about the provider who entered the basic order into the EHR software system.   |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.<br>OrderingProvider | DataType | The OrderingProvider member of the DataType Type is used to store information about the healthcare provider who placed the order. This could include details such as the provider's name, ID, or other relevant identifiers.        |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.<br>.AdminProvider   | DataType | The AdminProvider member of the DataType Type is used to store the information of the administrator or  |

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|   |                         | healthcare professional who is responsible for administering or overseeing the medication or procedure associated with the BasicOrder.   |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.AdminLocation | DataType                | The AdminLocation member of the DataType Type is used to store the administrative location associated with a healthcare order or event in an EHR software. This could refer to the physical location where the order or event took place, such as a clinic or hospital department. |
| ObsRequests..Results..ResponsibleObserver.DataTypeField.None          | DataType                | The None member of the DataType type is used to indicate that there is no specific data type associated with the member. It is used when there is no need to specify a particular data type for a certain field or property.   |
| ObsRequests..Results..ResponsibleObserver.Person                      | ExtendedCompositePerson | The Person member of the ExtendedCompositePerson Type in the Provider Type is used to store and represent the personal information of a healthcare provider, such as their name, identification number,  |

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|   |            | contact information, and any other relevant attributes.  |
| ObsRequests..Results..ResponsibleObserver.Person.IdNumber         | String     | The IdNumber member of type String in the ExtendedCompositePerson class represents a unique identifier associated with an individual, such as a patient or healthcare provider. It is used to uniquely identify the person within the EHR software system. |
| ObsRequests..Results..ResponsibleObserver.Person.IdType           | String     | The `IdType` member of type `String` within the `ExtendedCompositePerson` type is used to specify the type of identification number associated with a person's identity, such as a social security number, driver's license number, or passport number.    |
| ObsRequests..Results..ResponsibleObserver.Person.LastName         | FamilyName | The LastName member of the FamilyName type in the ExtendedCompositePerson type is a string that represents the surname or last name of a person. It is used to store the last name of a patient or individual in a healthcare record.                      |
| ObsRequests..Results..ResponsibleObserver.Person.LastName.Surname | String     | The Surname member of type String in the FamilyName type is  |



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|  |         | used to store the last name or surname of an individual.  |
| ObsRequests..Results..ResponsibleObserver.Person.LastName.complete | Boolean | The complete member of the Boolean type in the FamilyName class is used to indicate whether the surname field in the FamilyName object is complete or not.  |
| ObsRequests..Results..ResponsibleObserver.Person.FirstName         | String  | The FirstName member of type String in the ExtendedCompositePerson class is used to store the first name of a person in a healthcare record.  |
| ObsRequests..Results..ResponsibleObserver.Person.GivenNamesOther   | String  | The GivenNamesOther member of type String in the ExtendedCompositePerson type is used to store additional given names or middle names of a person, other than the primary given name.   |
| ObsRequests..Results..ResponsibleObserver.Person.Prefix            | String  | The Prefix member of the ExtendedCompositePerson Type is a string that represents a title or honorific prefix such as "Mr.", "Mrs.", or "Dr.". It is used to provide a formal title or prefix to the person's name in the EHR software. |

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| ObsRequests..Results..ResponsibleObserver.Person.Suffix                         | String                 | The Suffix member of type String in the ExtendedCompositePerson class represents the suffix or honorific title of a person's name. It is commonly used in healthcare settings to capture professional titles such as MD (Doctor of Medicine), RN (Registered Nurse), or Jr (Junior). |
| ObsRequests..Results..ResponsibleObserver.Person.NameType                       | String                 | The NameType member of String Type in the ExtendedCompositePerson Type is used to specify the type or category of the person's name, such as "official name" or "nickname".  |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority             | HierarchicalDesignator | The AssigningAuthority member of the HierarchicalDesignator type is used to identify the authority that assigns unique identifiers for individuals in the EHR system.  |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority.NamespaceId | String                 | The NamespaceId member of String Type in the HierarchicalDesignator Type is used to define the unique identifier for the namespace within the EHR software.  |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority.UniversalId | String                 | The UniversalId member of the String Type in the   |

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|   |         | <p>HierarchicalDesignator Type is used to uniquely identify a particular entity within a specific healthcare organization or system. It is used to distinguish between different hierarchies or levels within the organization or system for the purpose of organizing and managing data within the EHR software.</p> |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority.UniversalIdType | String  | <p>The UniversalIdType member of String Type in the HierarchicalDesignator Type is used to specify the type or format of the UniversalId value. It could indicate whether the UniversalId is using a specific identifier system or standard, such as HL7, DICOM, or UUID.</p>   |
| ObsRequests..Results..ResponsibleObserver.Person.AssigningAuthority.complete        | Boolean | <p>The complete member of the Boolean type in the HierarchicalDesignator class is used to indicate whether the hierarchical designator information is complete or not.</p>  |
| ObsRequests..Results..ResponsibleObserver.Person.complete                           | Boolean | <p>The complete member of Boolean Type in the ExtendedCompositePerson Type is used to indicate if all the necessary information</p>   |

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|  |       | for the person's identification has been provided and is complete.  |
| ObsRequests..Results..ResponsibleObserver.type           | Type  | The type member of the Provider Type is used to indicate the type of provider.  |
| ObsRequests..Results..ResponsibleObserver.type.value__   | Int32 | The value__ member of the Int32 Type represents the underlying integer value of the Type enum. It is used to store the numeric value associated with a specific Type enum member. |
| ObsRequests..Results..ResponsibleObserver.type.Provider  | Type  | The Provider member of Type Type in the BasicOrder class is used to store information about the healthcare provider associated with the order.                                    |
| ObsRequests..Results..ResponsibleObserver.type.Provider2 | Type  | The Provider2 member of the Type Type is used to represent a healthcare provider who is associated with the basic order.  |
| ObsRequests..Results..ResponsibleObserver.type.Location  | Type  | The Location member of the Type Type is used to store information related to the location where a specific action or event related to the EHR software took place.                |

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| ObsRequests..Results..ResponsibleObserver.type.Identification | Type | The Identification member of Type Type is used to store identification information related to an order or patient in an EHR software. It may include data such as patient identification numbers, order identification numbers, or any other relevant identification information.   |
| ObsRequests..Results..ResponsibleObserver.type.ContactInfo    | Type | The ContactInfo member of the Type Type is used to store contact information related to a healthcare provider or organization. This could include phone numbers, email addresses, and other contact details.  |
| ObsRequests..Results..ResponsibleObserver.type.Composite      | Type | The Composite member of the Type enum is used to represent a composite or complex type that combines multiple data elements into a single entity. It could be used to store and manage structured data that consists of multiple attributes or sub-components. The specific use case or implementation details may vary depending on the context of the EHR software. |

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| ObsRequests..Results..ResponsibleObserver.type.ID_TB          | Type | The ID_TB member of the Type Type is used to identify and categorize orders or data related to Tuberculosis (TB) testing or treatment within the electronic health record (EHR) software. |
| ObsRequests..Results..ResponsibleObserver.type.ID_CmbBx       | Type | The ID_CmbBx member of the Type Type is used to represent a combination box or drop-down list of identification options within an electronic health record (EHR) software.                |
| ObsRequests..Results..ResponsibleObserver.type.CE             | Type | The CE member of Type Type is used to represent a clinical encounter or visit in an Electronic Health Record (EHR) system.  |
| ObsRequests..Results..ResponsibleObserver.type.PersonLocation | Type | The PersonLocation member of Type Type is used to store information related to the location of a person, such as address or geographical coordinates.                                     |
| ObsRequests..Results..ResponsibleObserver.type.CM_NDL         | Type | The CM_NDL member of the Type Type is used to represent a clinical note or documentation related to a patient's medical condition or treatment.   |

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| ObsRequests..Results..ResponsibleObserver.type.CM_EIP | Type  | The CM_EIP member of the Type Type is used for capturing and storing information related to External Imaging Procedure requests within an Electronic Health Record (EHR) software.  |
| ObsRequests..Results..ResponsibleObserver.type.EI     | Type  | The EI member of the Type Type is used to represent an Electronic Invoice.  |
| ObsRequests..Results..ResponsibleObserver.type.HD     | Type  | The HD member of Type Type is used to represent a specific type of health document within the EHR software.   |
| ObsRequests..Results..ResponsibleObserver.lab         | Lab   | The lab member of Lab Type in the Provider Type is a variable used to indicate the specific laboratory associated with the provider.  |
| ObsRequests..Results..ResponsibleObserver.lab.value__ | Int32 | The value__ member of the Int32 Type in the Lab Type is an enumeration value that represents the specific Lab associated with the order. It is used to identify the type of lab test or service being requested or performed in the EHR software. |
| ObsRequests..Results..ResponsibleObserver.lab.None    | Lab   | The "None" member of the Lab Type is used to indicate that there is no  |

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|   |         | specific lab associated with the basic order. It represents a default or empty value for the lab field in the BasicOrder class.  |
| ObsRequests..Results..ResponsibleObserver.lab.EllkayProgenity | Lab     | The EllkayProgenity member of the Lab enum type is specifically used for representing the Progenity lab within the EHR software.   |
| ObsRequests..Results..ResponsibleObserver.empid2              | Int32   | The empid2 member of Int32 type in the Provider class is used to store the employee ID associated with the provider.   |
| ObsRequests..Results..ResponsibleObserver.complete            | Boolean | The complete member of the Boolean Type in the Provider Type is used to indicate whether the provider's information is complete or not. It could be used to ensure that all necessary fields and data for the provider have been filled out before saving or submitting the information. |
| ObsRequests..Results..ItemInfoListXml                         | String  | The ItemInfoListXml member of the ObservationResult type is used to store additional information or attributes related to the observation result. It is represented as a   |



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|--|--------------|---|
|  |              | string in XML format, indicating that it may contain structured data or metadata about the result. However, without further information or context, it is not possible to determine the specific details or purpose of this member.   |
| ObsRequests..Results..itemInfoListXmlField | String       | The itemInfoListXmlField member is used to store additional information related to the observation result in the form of serialized XML data.   |
| ObsRequests..Notes                         | List<String> | The Notes member of the List<String> type in the ObservationRequest represents additional text-based information or comments related to the observation request. It is used to capture any important notes or instructions regarding the specific request or any relevant information that may need to be communicated. |
| ObsRequests..SpecimenActionCode            | String       | The SpecimenActionCode member is used to indicate the action that needs to be performed on a specimen during an observation request.  |

|   |                   |  |
|---|-------------------|--|
|   |                   | It could be used to specify whether the specimen needs to be collected, transported, analyzed, or disposed of, among other possible actions.   |
| ObsRequests..Specimen                         | LabResultSpecimen | The Specimen member of the LabResultSpecimen type in the ObservationRequest type is used to represent the details and characteristics of the specimen collected for the laboratory test or analysis requested in the order. It includes information such as the specimen ID, collection start and end times, rejection reasons, quality, appropriateness, and any additional conditions related to the specimen. |
| ObsRequests..Specimen.ID                      | HL7CodeType       | The ID member of the HL7CodeType Type in the LabResultSpecimen Type is used to store the unique identifier code for a lab result specimen.   |
| ObsRequests..Specimen.CollectionDateTimeStart | DateTime          | The CollectionDateTimeStart member of the DateTime type is used to record the start date and time of specimen collection in the  |

|   |                   |   |
|---|-------------------|---|
|   |                   | LabResultSpecimen type within an EHR software.  |
| ObsRequests..Specimen.CollectionDateTimeEnd | DateTime          | The CollectionDateTimeEnd member of the LabResultSpecimen type is used to represent the date and time when the collection of the laboratory specimen ended for a particular order or test.                              |
| ObsRequests..Specimen.RejectReasons         | List<HL7CodeType> | The RejectReasons member of the List<HL7CodeType> type in the LabResultSpecimen type is used to store a list of HL7 codes that represent the reasons for rejecting the specimen collected for a lab test.               |
| ObsRequests..Specimen.Quality               | HL7CodeType       | The Quality member of the HL7CodeType type in the LabResultSpecimen is used to indicate the quality or reliability of the specimen being collected or tested in the context of electronic health record (EHR) software. |
| ObsRequests..Specimen.Appropriateness       | HL7CodeType       | The "Appropriateness" member in the HL7CodeType type within the LabResultSpecimen   |

|                                  |                    |   |
|----------------------------------|--------------------|---|
|                                  |                    | type is used to indicate the appropriateness or suitability of the specimen for the specific lab test being requested.  |
| ObsRequests..Specimen.Conditions | List<HL7CodeType>  | The Conditions member of List<HL7CodeType> Type in the LabResultSpecimen is used to store any additional conditions or clinical information related to the specimen being tested in the laboratory.   |
| ObsRequests..Diags               | List<HL7CodeType>  | The Diags member of List<HL7CodeType> Type in the ObservationRequest Type is used to represent the diagnosis codes associated with the observation request. Diagnosis codes are alphanumeric codes used in healthcare to classify and identify specific medical conditions or diseases. |
| ObsRequests..Collectors          | List<ProviderType> | The Collectors member of the List<ProviderType> type in the ObservationRequest type is used to store a list of providers who collect or gather the specimen for the observation request.  |

|                                       |                  |   |
|---------------------------------------|------------------|---|
| ObsRequests..Collecters.              | ProviderType     | The member of ProviderType Type, which is a member of the List<ProviderType> Type, is used to store information about a healthcare provider associated with the order. It includes details such as the provider's personal information, assigning authority, and employee ID. |
| ObsRequests..Technicians              | List<HL7_CM_NDL> | The Technicians member of the List<HL7_CM_NDL> type in the ObservationRequest type is used to store information about the technicians involved in the collection and processing of the specimen for the observation request.  |
| ObsRequests..Technicians.             | HL7_CM_NDL       | The member of the HL7_CM_NDL type, which is a member of the List<HL7_CM_NDL> type, is used to store information about the physical location of a person within a healthcare facility.   |
| ObsRequests..Technicians..pointOfCare | String           | The pointOfCare member in the HL7_CM_NDL type is used to specify the specific location within a healthcare facility where a particular event or service is  |

|  |        |   |
|--|--------|---|
|  |        | taking place.   |
| ObsRequests..Technicians..room               | String | The room member of the HL7_CM_NDL type in the EHR software is used to store the specific room or location within a healthcare facility where a patient is located or will be located.   |
| ObsRequests..Technicians..bed                | String | The bed member of the String type in the HL7_CM_NDL type is used to store the identification or name of the bed in a healthcare facility. It represents the specific location within a hospital room where a patient is assigned.                     |
| ObsRequests..Technicians..locationStatus     | String | The locationStatus member in the HL7_CM_NDL type is used to indicate the current status of a patient's location within a healthcare facility, such as whether they are admitted, discharged, transferred, or in a specific state within the facility. |
| ObsRequests..Technicians..personLocationType | String | The personLocationType member of type String in the HL7_CM_NDL type is used to represent the type or category of the person   |

|   |                        |  |
|---|------------------------|--|
|   |                        | who is located in the specified location.  |
| ObsRequests..Technicians..building            | String                 | The building member of String Type in the HL7_CM_NDL Type is used to store the building information related to a location within the healthcare facility.  |
| ObsRequests..Technicians..floor               | String                 | The "floor" member of type String in the HL7_CM_NDL type represents the floor number or level of a specific location within a healthcare facility. It is used to specify the vertical position of a certain room or area within the facility.  |
| ObsRequests..Technicians..locationDescription | String                 | The locationDescription member of String Type in the HL7_CM_NDL Type is a field that describes the location in the electronic health record system. It is used to provide additional information about the specific location, such as a name or description, within the healthcare facility. |
| ObsRequests..Technicians..facility            | HierarchicalDesignator | The facility member of HierarchicalDesignator Type is used to represent the identifier or name of the healthcare facility where a particular   |

|  |                         |  |
|--|-------------------------|--|
|  |                         | event or data is associated with in an Electronic Health Record (EHR) system.  |
| ObsRequests..Technicians..name                 | ExtendedCompositePerson | The name member of ExtendedCompositePerson Type is used to store the name of a person associated with the HL7_CM_NDL Type in an EHR software.  |
| ObsRequests..Technicians..startDateTimeEnabled | Boolean                 | The startDateTimeEnabled member of Boolean Type in the HL7_CM_NDL Type is used to indicate whether the start date and time is enabled or editable in the electronic health record (EHR) software.                |
| ObsRequests..Technicians..endDateTimeEnabled   | Boolean                 | The endDateTimeEnabled member of Boolean Type in the HL7_CM_NDL Type is a flag that indicates whether the end date and time is enabled for a particular location in the Electronic Health Record (EHR) software. |
| ObsRequests..Technicians..complete             | Boolean                 | The complete member of Boolean Type in the HL7_CM_NDL Type is used to indicate whether a particular location or event is considered complete or finished in the EHR  |



|  |            |  |
|--|------------|--|
|  |            | software.  |
| ObsRequests..DiagServSectId                  | HL7_ID     | The DiagServSectId member of the HL7_ID type is used to represent the Diagnostic Service Section ID. It is used within the ObservationRequest type in the EHR software and may be used to identify the specific diagnostic service section related to the observation request. |
| ObsRequests..Parent                          | HL7_CM_EIP | The Parent member of HL7_CM_EIP type is used to represent the parent order from which the current order is derived. It contains the placer and filler order numbers of the parent order and a flag indicating whether the parent order is complete or not.                     |
| ObsRequests..Parent.parentsPlacerOrderNumber | HL7_EI     | The parentsPlacerOrderNumber member of the HL7_EI Type is used to store the identifier for the parent order in a hierarchy of orders within the EHR software. It is used to link child orders to their corresponding parent order for tracking and reference purposes.         |

|   |        |  |
|---|--------|--|
| ObsRequests..Parent.parentsPlacerOrderNumber.entityIdentifier | String | The entityIdentifier member of type String in the HL7_EI type is used to uniquely identify an entity within a healthcare information system. It is typically used to identify a specific record or object related to the entity, such as a patient, provider, or medical event.                |
| ObsRequests..Parent.parentsPlacerOrderNumber.namespaceId      | String | The namespaceId member of type String in the HL7_EI type is used to identify the namespace or domain from where the entity identifier is assigned. It provides context or categorization for the entity identifier.  |
| ObsRequests..Parent.parentsPlacerOrderNumber.universalId      | String | The universalId member of type String in the HL7_EI type is a unique identifier that represents a specific entity in the context of an electronic health record (EHR) software. It is used to uniquely identify the entity, such as a patient or a healthcare provider, within the EHR system. |
| ObsRequests..Parent.parentsPlacerOrderNumber.universalIdType  | HL7_ID | The universalIdType member of the HL7_ID Type is used to specify the type or format of the universalId property. It provides   |

|   |                  |  |
|---|------------------|--|
|   |                  | additional information about how the universalId is structured or defined.   |
| ObsRequests..Parent.parentsPlacerOrderNumber.complete | Boolean          | The complete member of the Boolean Type in the HL7_EI Type is used to indicate whether the information in the HL7_EI object is complete or not.  |
| ObsRequests..Parent.parentsFillerOrderNumber          | HL7_EI           | The parentsFillerOrderNumber member of the HL7_EI Type in the HL7_CM_EIP Type is used to store the filler order number of the parent order in the EHR software.  |
| ObsRequests..Parent.complete                          | Boolean          | The complete member of Boolean type in the HL7_CM_EIP type is used to indicate whether the order is complete or not. It is a flag that signifies if all the necessary actions or procedures related to the order have been performed or not. |
| ObsRequests..PerformingOrg                            | OrganizationType | The PerformingOrg member of the OrganizationType Type in the ObservationRequest Type is used to store information about the organization that is responsible for performing the  |

|                   |                  |  |
|-------------------|------------------|--|
|                   |                  | observation or testing requested in the order.   |
| Provider          | ProviderType     | The Provider member of the ProviderType Type in the BasicOrder Type is used to store information about the healthcare provider who is associated with the order. This could include details such as the provider's personal information, assigning authority, and employee ID. |
| EnteredBy         | ProviderType     | The EnteredBy member of the ProviderType Type in the BasicOrder Type is used to store information about the provider who entered the order into the electronic health record (EHR) system.   |
| EnterersLocation  | OrganizationType | The EnterersLocation member of the OrganizationType Type is used to store the location information of the person who entered the order in the EHR software.  |
| ReasonNotDoneCode | String           | The ReasonNotDoneCode member of String Type in the BasicOrder Type is used to indicate the reason why a particular order or task was not completed or  |

|  |  |            |
|--|--|------------|
|  |  | performed. |
|--|--|------------|

## Drug Allergy - External - "ehr\_file" CSV Export

The ehr\_file table is used to store files related to drug allergies in an electronic health record (EHR) system. The table contains columns for the file ID, patient ID, file type, date and time of the file, file data, last modified date and time, employee ID, whether the file is related to patient education resources, date and time of the patient education resource identification, location ID, whether the file has been uploaded for a patient, date and time of the file upload, a unique identifier for the insertion of data, and the date and time of creation.

| Column Name            | Data Type                   | Description  | Extraction Method               |
|------------------------|-----------------------------|--|---------------------------------|
| fid                    | int                         | The 'fid' column is a unique identifier for each row in the 'ehr_file' table.  | CSV                             |
| acctid                 | int                         | The acctid column is the unique patient ID from the 'patients' table.  | CSV                             |
| type                   | int                         | The type column signifies the category or classification of the EHR file.  | CSV                             |
| datet                  | datetime<br>default<br>NULL | The 'datet' column is a datetime data type that represents the date and time when data was recorded or uploaded for the EHR file.                    | CSV                             |
| data                   | longblob                    | The 'data' column stores a large binary object (BLOB) that contains the actual data associated with the electronic health record file.               | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | last_modified_datetime: The date and time when the file was last modified.   | CSV                             |
| empid                  | int                         | The empid column is the unique employee ID of the employee associated with the file.   | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column is a boolean flag indicating whether the patient has been identified as a participant in a patient education resource. | CSV                             |

|                             |                             |   |     |
|-----------------------------|-----------------------------|---|-----|
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column stores the date and time when the identification of patient education resources was last modified. | CSV |
| locid                       | int                         | The `locid` column is a foreign key referencing the unique location ID from the 'locations' table.  | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for the patient.   | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the file was uploaded for the patient.                                     | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a variable-length string that stores a unique identifier for each record in the ehr_file table.                 | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the record in the ehr_file table was created.                                   | CSV |
| sub_type                    | int                         | The sub_type column represents a specific subtype or category of the data stored in the ehr_file table.                                   | CSV |

## DrugAllergy Type

The DrugAllergy Type is used to represent information about a drug allergy in an electronic health record (EHR) system. It includes details such as the medication that caused the allergy, the patient's reaction to it, the status of the allergy (e.g., active or inactive), the severity of the reaction, start and end dates of the allergy, and any associated SNOMED codes. This information is crucial for healthcare providers to ensure patient safety and avoid prescribing medications that may cause adverse reactions. A DrugAllergy is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name                  | Type        | Description  |
|------------------------------|-------------|--|
|                              | DrugAllergy | The "Drug" member of the DrugAllergy Type is used to store information about the medication involved in the drug allergy.  |
| Drug                         | Medication  | The Drug member of the Medication Type in the DrugAllergy Type is used to store information about a specific medication related to a drug allergy. It includes details such as the brand name, prescription code, ingredients, form, route, generic name, strength, and additional free text information about the medication. |
| Drug.BrandName               | String      | The BrandName member of the Medication Type in the DrugAllergy class is a string that represents the brand name of a medication. It is used to identify a specific medication by its brand name in the electronic health record (EHR) software.  |
| Drug.RxCode                  | String      | The RxCode member of String Type in the Medication Type is used to store a code or identifier associated with a prescription drug.   |
| Drug.RxCodeValueSetCodeField | String      | The RxCodeValueSetCodeField member of type String within the Medication  |



|                          |                            |   |
|--------------------------|----------------------------|---|
|                          |                            | class is used to store the code value set code associated with the prescription code (RxCode). This information may be used for reference or integration purposes with external data sources or systems that utilize standardized code sets for medication identification and classification. |
| Drug.Ingredients         | List<MedicationIngredient> | The Ingredients member of the List<MedicationIngredient> type in the Medication type is used to store a list of ingredients or components present in a medication.  |
| Drug.Ingredients.        | MedicationIngredient       | The member "Name" of the MedicationIngredient type is used to represent the name of a specific ingredient in a medication.  |
| Drug.Ingredients..Name   | String                     | The Name member of String Type in the MedicationIngredient Type is used to store the name of a medication ingredient.   |
| Drug.Ingredients..RxCode | String                     | The RxCode member of the MedicationIngredient Type is a code or identifier that represents a specific medication or prescription. It is used to uniquely identify a medication ingredient within the electronic health record (EHR) software system.  |
| Drug.Form                | String                     | The Form member of String Type in the Medication Type is used to store the form or physical presentation of the medication, such as tablet, capsule, liquid, or injection. It represents the specific form in which the medication is available for administration to the patient.            |
| Drug.Route               | String                     | The Route member of String Type in the Medication Type is used to indicate the method or pathway by which a   |

|                     |         |   |
|---------------------|---------|---|
|                     |         | medication is administered or taken by the patient.   |
| Drug.Generic        | String  | The Generic member of the String Type in the Medication Type is used to store the generic name of a medication.   |
| Drug.Strength       | Amount  | The Strength member of the Amount type in the Medication Type is used to store the numerical value of the strength of a medication.   |
| Drug.Strength.Value | Decimal | The Value member of the Decimal Type in the Amount Type is used to represent a numerical value, such as a quantity or measurement, in the context of electronic health record (EHR) software. |
| Drug.Strength.Units | String  | The Units member of String Type in the Amount Type is used to represent the unit of measurement for the value in the Amount member.   |
| Drug.FreeText       | String  | The FreeText member in the Medication Type is used to store any additional free-text information or notes related to the medication.  |
| Drug.NotAClass      | Boolean | The NotAClass member of Boolean Type in the Medication Type is a flag indicating whether the medication is classified as a specific medication class or not.                                  |
| Reaction            | String  | The Reaction member of String Type in the DrugAllergy Type is used to store the patient's allergic reaction to a specific medication.   |
| Status              | String  | The Status member of String Type in the DrugAllergy Type is used to indicate the current status of the drug allergy.  |
| ID                  | String  | The ID member of String Type in the DrugAllergy Type is used to store a unique identifier or code that is   |

|                  |          |   |
|------------------|----------|---|
|                  |          | associated with the drug allergy. It could be used for reference or identification purposes within the EHR software.  |
| Severity         | String   | The Severity member of String Type in the DrugAllergy Type is used to represent the severity level of a drug allergy reaction.  |
| StartDateNotSet  | Boolean  | The StartDateNotSet member of type Boolean in the DrugAllergy class indicates whether the start date of the drug allergy is not set. It is used to handle situations where the start date of the drug allergy is unknown or not specified in the electronic health record (EHR) system. |
| StartDate        | DateTime | The StartDate member of DateTime Type in the DrugAllergy Type is used to store the date when the drug allergy started for a patient in an EHR software.   |
| EndDateNotSet    | Boolean  | The EndDateNotSet member of Boolean Type in the DrugAllergy Type is used to indicate whether the end date of the drug allergy has been set or not in the electronic health record (EHR) software.   |
| EndDate          | DateTime | The EndDate member of the DateTime Type in the DrugAllergy Type is used to specify the date on which the drug allergy ended for a patient.  |
| LastModifiedDate | DateTime | The LastModifiedDate member of the DateTime Type in the DrugAllergy Type is used to store the date and time when the drug allergy information was last modified in the EHR software.  |
| SnomedCode       | Code     | The SnomedCode member of Code Type in the DrugAllergy Type is used to store the SNOMED CT code associated with a drug allergy.  |

|                              |        |  |
|------------------------------|--------|--|
| SnomedCode.CodeStr           | String | The CodeStr member of the Code Type is a string that represents a code value within a specific code system. It is used to uniquely identify and classify medical concepts such as diagnoses, procedures, medications, and allergies within the electronic health record (EHR) software.          |
| SnomedCode.Description       | String | The Description member of String Type in the Code Type is used to provide a textual description or explanation of the specific code.   |
| SnomedCode.CodeSystem        | String | The CodeSystem member of String Type in the Code Type is used to store the code system name or identifier related to a specific code. It provides information about the source or origin of the code value, allowing for standardized classification and identification within the EHR software. |
| SnomedCode.CodeSystemVersion | String | The CodeSystemVersion member of String Type in the Code Type is used to store the version of the code system that the code belongs to. It provides information about the specific version of the code system that was used to assign the code value.   |
| SnomedCode.ValueSet          | String | The ValueSet member of String Type in the Code Type is used to store the version of the code system or terminology that the code belongs to. It is used to identify the specific set of codes that are being used in the EHR software.   |
| SnomedCode.id                | String | The 'id' member of type String in the Code class is used as an identifier or unique identifier for the specific code. It could be used to distinguish different codes within the EHR software system or to reference specific codes in other parts   |

|                                |          |   |
|--------------------------------|----------|---|
|                                |          | of the software.  |
| SnomedCode.codeSystemName      | String   | The `codeSystemName` member of the `Code` type is a string that represents the name of the code system from which the code value is derived. It is used to identify the specific code system or terminology used to define the code value in the EHR software.                    |
| SnomedCode.valueSetVersion     | String   | The valueSetVersion member of type String in the Code class is used to specify the version of the value set that the code belongs to.   |
| SnomedCode.nullFlavor          | String   | The nullFlavor member of the Code Type is a string that indicates the reason why a certain code value is missing or not available. It is used in the context of EHR software to represent the absence of a code value or to indicate that the value is not applicable or unknown. |
| SnomedCode.codeType            | CodeType | The codeType member of the CodeType type is used to represent the type of code being used in the EHR system. It could be used to differentiate between different code systems or classifications, such as SNOMED CT, LOINC, or ICD-10.  |
| SnomedCode.codeType.id         | Int32    | The id member of the Int32 Type in the CodeType Type represents a unique identifier or code assigned to a specific entity in the EHR software. It is used to uniquely identify and reference the entity in various operations and functionalities within the software.            |
| SnomedCode.codeType.typeString | String   | The typeString member of the CodeType Type is used to store a string that represents the type of code being used in the EHR software.   |
| IgnoreSnomedCode               | Boolean  | The IgnoreSnomedCode member of Boolean Type in the DrugAllergy Type is  |

|  |  |   |
|--|--|---|
|  |  | used to determine whether the<br>SnomedCode should be ignored or not<br>when processing drug allergy<br>information in an EHR software. |
|--|--|---|

## Observation - "ehr\_file" CSV Export

The ehr\_file table contains observations recorded in an Electronic Health Record (EHR) system. The observations are associated with a specific patient, as indicated by the 'acctid' column, and are categorized by a type. The table also records the date and time of the observation, as well as the data itself. The table includes additional fields such as 'empid' and 'locid' for tracking the employee and location associated with the observation. It also includes fields related to the identification and uploading of patient education resources. The table is used for storing and retrieving patient observations within the EHR software.

| Column Name            | Data Type                   | Description  | Extraction Method               |
|------------------------|-----------------------------|--|---------------------------------|
| fid                    | int                         | The fid column is a unique identifier for each record in the ehr_file table.   | CSV                             |
| acctid                 | int                         | The acctid column is the unique identifier for a patient in the database.  | CSV                             |
| type                   | int                         | The type column represents the type of the EHR file.   | CSV                             |
| datet                  | datetime<br>default<br>NULL | The 'datet' column in the 'ehr_file' table is a datetime data type column that stores the date and time when the file was created or modified. | CSV                             |
| data                   | longblob                    | The data column in the ehr_file table is a longblob type column that stores the actual file data.  | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the file was last modified.  | CSV                             |
| empid                  | int                         | The empid column is the unique employee ID from the employees table.   | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column is a flag that indicates whether the file is specifically related to patient education resources.                | CSV                             |

|                             |                             |  |     |
|-----------------------------|-----------------------------|--|-----|
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column stores the date and time when the identification of the patient's educational resource was last modified. | CSV |
| locid                       | int                         | The locid column is the unique identifier for the location where the EHR file is associated with.  | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for the patient.  | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column represents the date and time when the file was uploaded for the patient.  | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier that is used to track the insertion of data into this table.                                       | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the record was created in the database table.  | CSV |
| sub_type                    | int                         | The sub_type column is an integer representing a specific subtype or category within the type column.  | CSV |



## Observation Type

The Observation Type is used to store information about a specific observation made in electronic health records (EHR). It contains details such as the type of observation, assigned codes, value type, method identifier, units of measurement, result status, date and time, observation value, sub ID, notes, and reference range. It is used to track and document various observations made on patients, such as lab results, vital signs, and other medical measurements. A Observation is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name   | Type        | Description   |
|---------------|-------------|---|
|               | Observation | The member "ValueType" in the Observation Type is used to indicate the type of value being observed, such as numeric, text, datetime, or boolean.   |
| PType         | ParentType  | The PType member of the ParentType enum in the Observation Type is used to indicate the parent type of the observation. It could be used to identify if the observation is related to an immunization or an observation request.                          |
| PType.value__ | Int32       | The value__ member of the Int32 Type in the ParentType Type is an auto-generated value that represents the underlying numeric value of the ParentType enumeration. It is used internally by the software for efficient storage and comparison operations. |
| PType.None    | ParentType  | The None member of the ParentType Type is used to indicate that an Observation does not have a parent type. It  |

|                          |            |   |
|--------------------------|------------|---|
|                          |            | is used when an Observation is not associated with an Immunization or Observation Request.  |
| PType.Immunization       | ParentType | The Immunization member of the ParentType Type is used to indicate that the observation is related to an immunization given to a patient.   |
| PType.ObservationRequest | ParentType | The ObservationRequest member of the ParentType Type is used for storing information related to a request made for a specific observation in an Electronic Health Record (EHR) system. This member is used to track and manage the requests made by healthcare providers for specific observations or tests to be performed on a patient. |
| AssignedCodeType         | CodeType   | The AssignedCodeType member of the CodeType type in the Observation type is used to specify the type of code assigned to the observation. It could be used to indicate the source or classification of the observation, such as a specific lab test code or a code indicating a certain medical condition.                                |
| AssignedCodeType.value__ | Int32      | The value__ member of the Int32 Type in the CodeType enumeration is a default member that represents the underlying integer value of the CodeType enum. It is used to store the numeric value associated with each code type  |

|                         |          |  |
|-------------------------|----------|--|
|                         |          | in the EHR software.   |
| AssignedCodeType.None   | CodeType | The "None" member of the CodeType enumeration in the Observation class is used to indicate that no specific code type is assigned to the observation. It signifies that the observation does not have any specific code associated with it.  |
| AssignedCodeType.ELLKAY | CodeType | The ELLKAY member of the CodeType type is used as a code to identify a specific data export or integration related to the ELLKAY EHR software.   |
| ValueType               | Type     | The ValueType member of the Type Type in the Observation class is used to represent the data type or format of the ObservationValue property. It indicates the type of data being stored or represented by the ObservationValue property, such as a numeric value, a date/time value, a text value, or a code value. |
| ValueType.value__       | Int32    | The value of the `value__` member of the `Int32 Type` enum represents the underlying numeric value of the `Type` enum. It is used for internal purposes within the EHR software to uniquely identify each member of the `Type` enum.   |
| ValueType.None          | Type     | The None member of the Type enum is used to represent a type that does not have a specific value or data format associated with it. It may be used in cases where the  |

|               |      |  |
|---------------|------|--|
|               |      | observation does not have any value or when the value is not applicable or available.  |
| ValueType.HD  | Type | The HD member of the Type Type is used to represent a hierarchical descriptor, such as a code for a healthcare provider or organization, in an Observation.                            |
| ValueType.TS  | Type | The TS member of the Type Type is used to represent a timestamp or time-related information in an Observation.   |
| ValueType.DT  | Type | The DT member of the Type Type is used to represent a DateTime value in the Observation data. It is used to store the date and time at which the observation was recorded or obtained. |
| ValueType.TX  | Type | The TX member of the Type Type is used to represent a text value, such as a comment or description, in the context of an Observation in an EHR software.                               |
| ValueType.NM  | Type | The NM member of the Type Type represents a numeric value for an observation. It is used to store quantitative data such as measurements, counts, or levels.                           |
| ValueType.CWE | Type | The CWE member of the Type Type in the Observation class is used to represent a coded value with a text component in an electronic health record (EHR) system.                         |

|                         |             |   |
|-------------------------|-------------|---|
| ValueType.ST            | Type        | The ST member of Type Type (Type.ST) is a data type used to store a short text value in an Observation. It is used to represent a text-based result or observation in an electronic health record (EHR) system.   |
| ValueType.Units         | Type        | The Units member of the Type Type is used to store the units of measurement associated with an observation.   |
| ValueType.Identifier    | Type        | The Identifier member in the Type Type is used to store the identifier value related to an observation or data in an electronic health record (EHR).  |
| Identifier              | HL7DataType | The Identifier member of HL7DataType Type in the Observation Type is used to store a unique identifier for the observation. This identifier could be used for referencing and identifying the specific observation within the context of the EHR software.                    |
| Identifier.NumericValue | Decimal     | The NumericValue member of Decimal Type in the HL7DataType Type is used to store numerical values associated with an observation in an Electronic Health Record (EHR) system. It represents a numeric result or measurement recorded for a specific observation or parameter. |
| Identifier.DateValue    | DateTime    | The DateValue member of the DateTime Type is used to represent a specific date within the HL7DataType Type. It is used to store and display dates   |

|                               |        |   |
|-------------------------------|--------|---|
|                               |        | related to observations in an Electronic Health Record (EHR) software.  |
| Identifier.Narrative          | String | The Narrative member of String Type in the HL7DataType Type is used to store textual information or comments related to a specific observation.   |
| Identifier.Identifier         | String | The Identifier member of String Type in the HL7DataType Type is used to store a unique identifier for a specific observation. It is used to distinguish and identify different observations within the EHR software system.   |
| Identifier.Text               | String | The Text member of String Type in the HL7DataType is used to store textual data related to the observation, such as descriptive information or additional notes.  |
| Identifier.CodeClass          | String | The CodeClass member of String Type is used to provide a classification or categorization for the data represented by the HL7DataType. It may be used to specify the type or group that the data belongs to within the EHR software.  |
| Identifier.NameOfCodingSystem | String | The NameOfCodingSystem member of type String in the HL7DataType class is used to store the name or identifier of the coding system used for the value in the observation. It provides a way to identify the specific coding system or standard that was used to assign the code or value to the |

|  |        |   |
|--|--------|---|
|  |        | observation data.   |
| Identifier.AlternateIdentifier         | String | The AlternateIdentifier member of type String in the HL7DataType type is used to store an alternate identifier or code associated with a particular observation or data element in an electronic health record. This alternate identifier may be used for interoperability purposes or to reference an external coding system or terminology. |
| Identifier.AlternateText               | String | The AlternateText member of the String Type in the HL7DataType is used to store an alternative or additional text description related to the HL7 data.  |
| Identifier.AlternateCodeClass          | String | The AlternateCodeClass member in the HL7DataType type is a string value that represents an alternate classification or category for a code or identifier used in the EHR software.  |
| Identifier.NameOfAlternateCodingSystem | String | The NameOfAlternateCodingSystem member of String Type in the HL7DataType is used to store the name of an alternate coding system for a specific healthcare observation or data. This allows for the identification and reference of the coding system used in cases where an alternate coding system is applicable or necessary.              |
| Identifier.OriginalText                | String | The OriginalText member of the String Type in the HL7DataType   |

|                      |                             |  |
|----------------------|-----------------------------|--|
|                      |                             | is used to store the original text representation of a particular data element within the EHR software.  |
| Identifier.dateValue | DateTime                    | The dateValue member of the DateTime Type in the HL7DataType is used to store the date and time value of a specific observation in the electronic health record (EHR) software. It represents the exact date and time when the observation was recorded or updated.  |
| IdentifierSelType    | Nullable<CodeSelectionType> | The IdentifierSelType member of Nullable<CodeSelectionType> Type in the Observation Type is used to indicate the selection type of the identifier code.  |
| ObsMethodIdentifier  | HL7DataType                 | The ObsMethodIdentifier member of the HL7DataType type represents the identifier of the observation method used to obtain the observation data. It is used to indicate the specific procedure or technique used to collect the data for the observation.   |
| Units                | HL7DataType                 | The Units member of the HL7DataType Type in the Observation Type is used to represent the units of measurement associated with the observed value in the EHR software. It provides information about the specific unit of measurement used to quantify the observation, such as milligrams, liters, or beats |



|                     |                    |  |
|---------------------|--------------------|--|
|                     |                    | per minute.  |
| ResultStatus        | Char               | The ResultStatus member of Char Type in the Observation Type represents the status of the result of the observation. It indicates whether the observation result is normal, abnormal, or any other relevant status. The specific values and their meanings may vary based on the implementation of the EHR software.   |
| DateTime            | Nullable<DateTime> | The DateTime member of the Nullable<DateTime> type in the Observation class is used to store the date and time when the observation was recorded or captured in the EHR software.  |
| ObservationValue    | ObservationValue   | The ObservationValue member of the ObservationValue Type is used to store the actual value of an observation. It can store different types of values such as numbers, dates, times, text, etc., depending on the specific data type defined in the HL7DataType property. This member is used to capture the quantitative or qualitative result of a particular observation, such as a lab test result or a patient's vital sign measurement. |
| ObservationValue.Hd | HL7DataType        | The Hd member of the HL7DataType type in the ObservationValue type is used to store a value representing a hierarchical descriptor. This could be used to define the hierarchy or structure of a   |

|                      |             |   |
|----------------------|-------------|---|
|                      |             | specific data element within the EHR software.  |
| ObservationValue.Dt  | HL7DataType | The "Dt" member of the HL7DataType Type in the ObservationValue Type is used to represent a date value within the electronic health record (EHR) software.  |
| ObservationValue.Ts  | HL7DataType | The Ts member of HL7DataType represents a timestamp value, which is used to store the date and time associated with a specific observation in the electronic health record (EHR) software.  |
| ObservationValue.Tx  | HL7DataType | The Tx member of HL7DataType Type is used to store textual data in the ObservationValue Type.   |
| ObservationValue.Nm  | HL7DataType | The Nm member of the HL7DataType type in the ObservationValue class is used to represent a numeric value within an observation. It could be used to store numerical data such as measurements or counts related to the observation.   |
| ObservationValue.Cwe | HL7DataType | The Cwe member of the HL7DataType Type, which is a member of the ObservationValue Type, is used to represent a coded value for a particular observation. This coded value may refer to a specific concept or entity within a standardized coding system, such as SNOMED CT or LOINC. It provides a structured format for capturing and exchanging |

|                     |             |  |
|---------------------|-------------|--|
|                     |             | coded information related to the observation being recorded in the Electronic Health Record (EHR) software.  |
| ObservationValue.St | HL7DataType | The St member of the HL7DataType type in the ObservationValue represents a string value. It is used to store textual information related to an observation, such as a narrative description or a note associated with the observation.   |
| SubId               | Int32       | The SubId member of type Int32 in the Observation type is used to identify a specific sub-observation or subgroup within the overall observation.  |
| NoteList            | List<Note>  | The NoteList member of type List<Note> in the Observation type is used to store a collection of notes associated with the observation. It allows for multiple notes to be recorded and associated with a specific observation, providing additional information or context related to the observation. |
| NoteList.           | Note        | The member of the Note Type, which is a member of the List<Note> Type, is used to store textual notes or comments related to an Observation.   |
| NoteList..text      | String      | The "text" member of the String Type in the Note Type is used to store the textual content of a note associated with an observation in an EHR  |

|                |        |   |
|----------------|--------|---|
|                |        | software. It is a string value that represents the actual content of the note entered by a healthcare provider or user.   |
| ReferenceRange | String | The ReferenceRange member is a string type used in the Observation type to store the reference range for a particular observation. It is used to define the normal or expected values for the observation being recorded. |

## Problem - "ehr\_file" CSV Export

The ehr\_file table is used to store electronic health record (EHR) files. It contains various types of files related to patient health records, such as medical images, lab reports, or scanned documents. Each file is associated with a specific patient (identified by acctid), and the table also includes information about the type of file, the date and time it was created or modified, and the employee and location associated with it. The table may also track whether the file has been uploaded for patient education purposes or linked to a specific invoice. It is an essential component of an EHR software system, allowing for the storage and retrieval of patient-related files.

| Column Name            | Data Type                   | Description  | Extraction Method               |
|------------------------|-----------------------------|--|---------------------------------|
| fid                    | int                         | The fid column is an auto-incrementing integer that serves as the unique identifier for each record in the ehr_file table.   | CSV                             |
| acctid                 | int                         | The acctid column is the unique patient ID associated with the record in the EHR file table.   | CSV                             |
| type                   | int                         | The type column represents the type of the EHR file.   | CSV                             |
| datet                  | datetime<br>default<br>NULL | The datet column in the ehr_file table stores the date and time when the file was created or last modified.  | CSV                             |
| data                   | longblob                    | The 'data' column in the 'ehr_file' table contains the actual electronic health record (EHR) data for a specific file. This data can include various types of health-related information such as patient demographics, medical history, lab results, medication records, and clinical notes. | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The 'last_modified_datetime' column is a datetime data type that stores the date and time when the file was last modified.   | CSV                             |
| empid                  | int                         | The empid column is the unique identifier for  | CSV                             |

|                             |                             |   |     |
|-----------------------------|-----------------------------|---|-----|
|                             |                             | an employee in the employees table.   |     |
| ident_pat_edu_rsrc          | tinyint                     | The ident_pat_edu_rsrc column is a boolean flag that indicates whether a specific educational resource has been identified for a patient.   | CSV |
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column records the date and time when the identification of patient educational resources was last updated. | CSV |
| locid                       | int                         | The locid column is the unique ID of the location where the EHR file is associated with.  | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column is a flag indicating whether the data in the file has been uploaded for the patient.                                | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The `uploaded_pat_datetime` column stores the date and time when the file was uploaded for a specific patient.                              | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a randomly generated unique identifier used for tracking and referencing specific records in the ehr_file table.  | CSV |
| created_datetime            | datetime<br>default<br>NULL | created_datetime: The date and time when the file was created.  | CSV |
| sub_type                    | int                         | The sub_type column represents a specific subtype or category associated with the file in the ehr_file table.                               | CSV |

## MedRecProblem Type

The MedRecProblem Type is used to represent a patient's medical problem or condition in an electronic health record system. It includes information about the problem code, status, type, start date, diagnosis type, notes, and a related SNOMED code. This type may be used to document and track the patient's medical issues for reference and analysis by healthcare providers. A MedRecProblem is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name                  | Type          | Description   |
|------------------------------|---------------|---|
|                              | MedRecProblem | The `fid` member of the MedRecProblem Type is an integer that represents the unique identifier of a problem record in the EHR software.   |
| TranslationCodeList          | List<Code>    | The TranslationCodeList member of type List<Code> is used to store a list of codes that represent translated versions of a particular medical record problem. It provides a way to map different code systems or languages to the same problem, allowing for interoperability and standardization across different healthcare systems.            |
| TranslationCodeList.         | Code          | The Code Type member is used to store information about a specific medical code, including its code value, description, code system, code system version, value set, and other relevant details. It is used to link a problem or diagnosis with a standardized medical code, allowing for easy categorization and classification of patient data. |
| TranslationCodeList..CodeStr | String        | The CodeStr member of the Code Type in the EHR software represents a string value that represents a specific code associated with a medical concept or term. It is used for identifying and categorizing various medical conditions, procedures, medications, and   |

|  |        |   |
|--|--------|---|
|  |        | other healthcare-related elements within the EHR system.  |
| TranslationCodeList..Description       | String | The Description member of the String Type in the Code class is used to store a textual description or summary of the code. It provides additional information about the code that helps to explain its meaning or purpose within the context of the EHR software.                 |
| TranslationCodeList..CodeSystem        | String | The CodeSystem member of String Type in the Code Type is used to store the code system from which the code value is derived. It provides information about the standardized set of codes used to represent a particular concept or entity in the healthcare domain.               |
| TranslationCodeList..CodeSystemVersion | String | The CodeSystemVersion member of String Type in the Code Type is used to specify the version of the code system that the code belongs to. It allows for tracking and identification of specific versions of the code system used in the EHR software.                              |
| TranslationCodeList..ValueSet          | String | The ValueSet member of String Type in the Code Type is used to store the value set associated with a particular code. It provides information about the set of valid values that can be used for a given code, such as a list of permissible diagnosis codes or medication codes. |
| TranslationCodeList..id                | String | The id member of the String Type in the Code Type is used as a unique identifier for the code. It is used to uniquely identify a specific code within the EHR system.   |
| TranslationCodeList..codeSystemName    | String | The codeSystemName member of String Type in the Code Type is used to store the name of the code system from which the code value is derived.  |
| TranslationCodeList..valueSetVersion   | String | The valueSetVersion member of the String  |



|  |                |   |
|--|----------------|---|
|  |                | type in the Code class is used to store the version information of a particular value set.  |
| TranslationCodeList..nullFlavor          | String         | The nullFlavor member in the String Type of the Code Type is used to indicate the absence of a value for a particular code in the EHR software.   |
| TranslationCodeList..codeType            | CodeType       | The codeType member of the CodeType type is used to identify the type of code being used. It provides information about the category or classification of the code, such as whether it represents a diagnosis, procedure, or medication.  |
| TranslationCodeList..codeType.id         | Int32          | The id member of Int32 Type in the CodeType Type is used to uniquely identify the code type.  |
| TranslationCodeList..codeType.typeString | String         | The typeString member of String Type in the CodeType Type is used to store the string representation or description of a specific code type. It provides a human-readable label for the code type, such as "ICD-10" or "SNOMED CT".   |
| code                                     | SelectableItem | The code member of the SelectableItem type in the MedRecProblem type is used to store the code associated with the selectable item.   |
| code.Text                                | String         | The Text member of the String Type in the SelectableItem class is used to store textual information or a description associated with the selectable item.   |
| code.Code                                | String         | The Code member of the SelectableItem Type is a string that represents a code or identifier for a specific item, such as a medical diagnosis or procedure. It is used to reference a specific value within a coding system or terminology, allowing for standardized representation and exchange of healthcare information in the EHR software. |
| code.Data                                | Object         | The Data member of the Object Type in the SelectableItem Type is used to store  |

|                            |        |   |
|----------------------------|--------|---|
|                            |        | additional information or metadata related to the selectable item.  |
| code.CodingSystem          | String | The CodingSystem member in the SelectableItem type is used to store the coding system or standard that is used for the code associated with the selectable item. It could refer to widely used coding systems such as SNOMED CT, ICD-10, or CPT, among others.  |
| code.ValueSet              | String | The ValueSet member of type String in the SelectableItem class is used to store a reference to a specific set of predefined values or codes that can be selected for the corresponding selectable item. This allows the EHR software to limit the choices for the user and ensure consistency in the data entered.            |
| code.Nullflavor            | String | The Nullflavor member of the String Type in the SelectableItem Type is used to indicate the absence or unknown value for a particular data element in the EHR software. It is used to represent missing or undefined information in the data.   |
| code.EnumCat               | Int32  | The EnumCat member of type Int32 in the SelectableItem class is used to categorize or classify the selectable item in some way within the EHR software.   |
| code.adminSiteSystem       | String | The `adminSiteSystem` member of type String in the `SelectableItem` class is used to store the coding system or identifier for the administrative site associated with the selectable item. It is used in the context of an EHR software to provide information about the administrative site related to the selectable item. |
| code.immzObservationSystem | String | The immzObservationSystem member of String Type in the SelectableItem Type is used to store the immunization observation system code.   |

|                          |            |   |
|--------------------------|------------|---|
| code.immzInfSourceSystem | String     | The immzInfSourceSystem member of String Type in the SelectableItem Type is used to indicate the system or source from where immunization information is obtained or recorded in an Electronic Health Record (EHR) software.  |
| code.ucumSystem          | String     | The ucumSystem member of String Type in the SelectableItem Type is used to store the system code for the Unified Code for Units of Measure (UCUM). UCUM is a standardized code system for units of measurements that is commonly used in healthcare applications.   |
| code.refusalSystem       | String     | The refusalSystem member of the SelectableItem Type is used to indicate the system or method used for recording patient refusals or declines for a particular selectable item, such as refusing a medication or treatment option.   |
| code.relationshipSystem  | String     | The relationshipSystem member of String Type in the SelectableItem Type is used to specify the coding system or standard that is used for representing relationships between different entities in the EHR software.  |
| code.langLinking         | String[][] | The langLinking member in the SelectableItem Type is used for language linking purposes. It contains an array of arrays of strings, where each inner array represents a language code system and its corresponding linking value. This allows for the mapping and linking of different language codes used in the EHR software to facilitate multilingual support and interoperability. |
| code.langLinking.        | String[]   | The member of the String[] Type in the String[][] Type is used to store a collection of strings. It is used in the context of the EHR software to store multiple values of a particular attribute or field.   |
| code.langLinking..       | String     | The member of String Type in the String[]   |

|                         |                |  |
|-------------------------|----------------|--|
|                         |                | Type is used to store a collection of strings in the EHR software.   |
| code.links              | String[][]     | The links member of type String[][] within the SelectableItem class is used to store the links or references to external resources or additional information related to the selectable item.   |
| code.languageCodeSystem | String         | The languageCodeSystem member of the SelectableItem type in the EHR software is used to store the coding system used for identifying the language associated with the selectable item.   |
| status                  | SelectableItem | The status member of the SelectableItem type in the MedRecProblem type is used to indicate the current status of the problem recorded in the electronic health record (EHR). It could be used to categorize the problem as active, resolved, inactive, or other relevant status options. |
| type                    | SelectableItem | The type member of the SelectableItem type is used to store information about the type or category of a selectable item within the MedRecProblem type. It represents the classification or classification system that the item belongs to.   |
| fid                     | Int32          | The fid member of Int32 Type in the MedRecProblem Type is used as a unique identifier for each problem entry in the EHR software's database.   |
| startDate               | DateTime       | The startDate member of the DateTime type in the MedRecProblem type is used to indicate the date on which the problem or condition associated with the medical record entry began or was diagnosed.  |
| importType              | importDiagType | The importType member of the importDiagType Type in the MedRecProblem Type is used to indicate the source or method of importing a diagnostic problem.   |

|                       |                |  |
|-----------------------|----------------|--|
| importType.value__    | Int32          | The value__ member of the Int32 Type in the importDiagType Type represents the underlying value of the enum member. It is used to store the numeric representation of the enum member for processing and comparison purposes, which is used in the EHR software to handle different types of imported diagnoses.   |
| importType.CPM        | importDiagType | The CPM member of importDiagType is used to represent a specific type of diagnosis that is imported into the EHR software.   |
| importType.CPMMedComp | importDiagType | The CPMMedComp member of the importDiagType Type is used to represent a diagnosis that was imported into the EHR software from a CPMMedComp source.  |
| importType.Imported   | importDiagType | The Imported member of the importDiagType enum is used to indicate that a problem has been imported into the EHR software from an external source.   |
| diagnosisType         | Char           | The diagnosisType member of the MedRecProblem Type is used to indicate the type or classification of the diagnosis associated with the medical problem.  |
| notes                 | String         | The notes member of type String in the MedRecProblem class is used to store additional textual information or comments related to the problem record.  |
| snomedCode            | Code           | The snomedCode member of the Code Type in the MedRecProblem Type is used to store a specific code that represents a diagnosis or clinical finding. It is used to reference a standardized code from the Systematized Nomenclature of Medicine Clinical Terms (SNOMED CT) coding system, which is commonly used in Electronic Health Records (EHR) software to ensure interoperability and accurate representation of medical concepts. |
| ignoreSnomedCode      | Boolean        | The ignoreSnomedCode member of Boolean   |

|  |  |   |
|--|--|---|
|  |  | Type in the MedRecProblem Type is used to determine whether the SNOMED code associated with the problem should be ignored or not. |
|--|--|---|

## Procedure - "ehr\_file" CSV Export

The ehr\_file table is used to store electronic health record files associated with a patient's medical records. These files can include documents, images, or other data related to procedures performed on the patient. The table includes columns for the patient ID, the type of procedure, the date and time of the procedure, the actual file data, and other relevant information such as the employee ID and location ID. The table allows for efficient retrieval and management of the EHR files within the EHR software system.

| Column Name                 | Data Type                   | Description  | Extraction Method               |
|-----------------------------|-----------------------------|--|---------------------------------|
| fid                         | int                         | The fid column is a unique identifier for each record in the ehr_file table.   | CSV                             |
| acctid                      | int                         | The acctid column is the unique identifier for a patient in the database table.  | CSV                             |
| type                        | int                         | The type column is an integer that represents the type of file associated with the record.   | CSV                             |
| datet                       | datetime<br>default<br>NULL | The datet column stores the date and time when the file was created or last modified.  | CSV                             |
| data                        | longblob                    | The 'data' column stores a large binary object that represents the electronic health record file.  | CSV + Binary<br>Deserialization |
| last_modified_datetime      | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the file was last modified.  | CSV                             |
| empid                       | int                         | The empid column is the unique identifier for an employee in the database table.   | CSV                             |
| ident_pat_edu_rsrc          | tinyint                     | The ident_pat_edu_rsrc column is a boolean flag indicating whether the file is associated with a patient education resource related to patient identification. | CSV                             |
| ident_pat_edu_rsrc_datetime | datetime<br>default         | The `ident_pat_edu_rsrc_datetime` column stores the date and time when the education   | CSV                             |

|                       |                             |  |     |
|-----------------------|-----------------------------|--|-----|
|                       | NULL                        | resource identification for a patient was last updated.  |     |
| locid                 | int                         | The 'locid' column is the unique identifier for the location where the EHR file is associated.                                   | CSV |
| uploaded_pat          | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for the patient.  | CSV |
| uploaded_pat_datetime | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the file was uploaded for the patient.                            | CSV |
| insert_guid           | varchar                     | The insert_guid column is a unique identifier that is automatically generated when a record is inserted into the ehr_file table. | CSV |
| created_datetime      | datetime<br>default<br>NULL | The `created_datetime` column stores the date and time when the record in the `ehr_file` table was created.                      | CSV |
| sub_type              | int                         | The sub_type column represents a specific subtype or category associated with a file in the EHR system.                          | CSV |



## MedRecProcedure Type

The MedRecProcedure type is used to store information related to medical procedures in an electronic health record (EHR) system. It includes data such as translation codes, billing ID, procedure code, target site code, procedure type, reason for the procedure, reason for not performing the procedure, and discharge disposition code. This type is designed to capture and manage details regarding medical procedures performed on patients. A MedRecProcedure is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name          | Type            | Description   |
|----------------------|-----------------|---|
|                      | MedRecProcedure | The `TranslationCodeList` member of the `MedRecProcedure` type is a list of codes that can be used to translate the procedure to different coding systems or languages. It is used to support interoperability and data exchange with different healthcare systems that may use different coding standards.   |
| TranslationCodeList  | List<Code>      | The TranslationCodeList member of List<Code> type in the MedRecProcedure class is used to store a list of translated codes for the procedure. These translated codes may have different code systems, descriptions, and versions, allowing for standardized representation of the procedure across different systems or languages.  |
| TranslationCodeList. | Code            | The member of Code Type in the List<Code> Type is used to store information about a specific code for a procedure. It includes details such as the code value, description, code system, code system version, value set, and other relevant attributes. This information is used to identify and classify the procedure according to standardized coding systems and terminologies. |

|  |        |   |
|--|--------|---|
| TranslationCodeList..CodeStr           | String | The `CodeStr` member of the `Code` type is a string that represents a specific code value. It may be used to hold the actual code value associated with a medical concept or classification system, such as a procedure code or diagnosis code. It is used within the EHR software to uniquely identify and specify a specific medical concept or classification.                                       |
| TranslationCodeList..Description       | String | The Description member of String Type in the Code Type is used to provide a textual description or explanation of the specific code. It is used to provide additional information about the code, which can be helpful for understanding the meaning or context of the code in the context of an electronic health record (EHR) software.   |
| TranslationCodeList..CodeSystem        | String | The CodeSystem member in the Code Type is used to store the code system identifier or name associated with a particular code.   |
| TranslationCodeList..CodeSystemVersion | String | The CodeSystemVersion member of the String Type in the Code Type is used to store the version number or identifier of the code system being used. This version helps to identify the specific version of the code system that was used to assign the code to a particular entity or concept in the EHR software.  |
| TranslationCodeList..ValueSet          | String | The ValueSet member of String Type in the Code Type is used to represent a set of predefined values or codes that can be used to populate the code field. These predefined values or codes provide a standardized and consistent way to represent specific medical concepts or terms. This allows for easier interoperability and data exchange between different healthcare systems and organizations. |

|  |          |  |
|--|----------|--|
| TranslationCodeList..id                  | String   | The "id" member of the String Type in the Code class is used to uniquely identify a code within the EHR software system. It may serve as a key or identifier to retrieve or reference specific codes when needed.  |
| TranslationCodeList..codeSystemName      | String   | The `codeSystemName` member of String Type in the Code Type is used to store the name or title of the code system from which the associated code originated.   |
| TranslationCodeList..valueSetVersion     | String   | The valueSetVersion member of String Type in the Code Type of the MedRecProcedure class is used to represent the version of the value set associated with a particular code.   |
| TranslationCodeList..nullFlavor          | String   | The nullFlavor member of String Type in the Code Type is used to indicate the absence or lack of information for a specific code. It is used in EHR software to represent situations where a code value is not available or applicable.  |
| TranslationCodeList..codeType            | CodeType | The `codeType` member of the `CodeType` type is used to identify and categorize the type of code being used in the EHR software. It is used to differentiate between different code types, such as diagnostic codes, procedure codes, or medication codes.                                     |
| TranslationCodeList..codeType.id         | Int32    | The `id` member of `Int32` type in the `CodeType` class is used as a unique identifier for the code type. It serves as a way to differentiate one code type from another within the system.  |
| TranslationCodeList..codeType.typeString | String   | The typeString member of String Type in the CodeType Type is used to store the type of code related to medical procedures within an EHR software system. It could be used to differentiate between different code types such as CPT codes, ICD codes, or other medical classification systems. |

|                   |                |   |
|-------------------|----------------|---|
| billid            | String         | The billid member of String Type in the MedRecProcedure Type is used to store the unique identifier associated with the bill or invoice generated for the procedure.  |
| code              | SelectableItem | The code member of the SelectableItem type is used to store a code or identifier associated with a specific item or concept in the electronic health record. It could be used to represent medical codes, such as diagnosis or procedure codes, or other types of codes used in healthcare, such as administrative or billing codes. The specific purpose or meaning of the code would depend on the context in which it is used within the EHR software. |
| code.Text         | String         | The `Text` member of the `SelectableItem` type in the EHR software is used to store the textual representation or description of a selectable item. It could be used to provide human-readable information about a code, such as the name or description of a medical procedure or condition.   |
| code.Code         | String         | The Code member in the SelectableItem Type is a string that represents a code or identifier used in the context of electronic health records (EHR). It is used to identify specific medical concepts, procedures, diagnoses, or other health-related information. This code may be standardized and follow a specific coding system, allowing for interoperability and consistent representation of data within the EHR system.                           |
| code.Data         | Object         | The Data member of the Object Type in the SelectableItem Type is used to store additional information or data related to the selectable item.   |
| code.CodingSystem | String         | The CodingSystem member in the SelectableItem type is used to specify the   |

|                            |        |  |
|----------------------------|--------|--|
|                            |        | coding system or standard that is used for the code value in the SelectableItem. It identifies the specific set of codes that are being used for the item, such as SNOMED CT, ICD-10, or LOINC.  |
| code.ValueSet              | String | The ValueSet member of String Type in the SelectableItem Type is used to store the value set identifier or code system for the selectable item. It is used to associate the selectable item with a specific value set or coding system, allowing for standardized representation and interoperability within the EHR software. |
| code.Nullflavor            | String | The Nullflavor member of the String Type in the SelectableItem class is used to indicate the absence or unknown value for a particular field or attribute. It is used in the EHR software to handle situations where data is missing or cannot be determined.  |
| code.EnumCat               | Int32  | The EnumCat member of the Int32 Type in the SelectableItem Type is used to categorize the different options or values that can be selected for a particular field. It is used to distinguish between different categories or types of selectable items within the EHR software.  |
| code.adminSiteSystem       | String | The `adminSiteSystem` member in the `SelectableItem` type is used to specify the system or organization responsible for administering or managing the site or location related to the selectable item.   |
| code.immzObservationSystem | String | The immzObservationSystem member of type String in the SelectableItem class is used to store the system or source identifier for immunization observations within an electronic health record (EHR) software.  |
| code.immzInfSourceSystem   | String | The immzInfSourceSystem member of  |

|                         |            |  |
|-------------------------|------------|--|
|                         |            | String Type in the SelectableItem Type is used to store information about the system or source that provides immunization information.   |
| code.ucumSystem         | String     | The ucumSystem member of the SelectableItem Type in the EHR software is used to store the UCUM (Unified Code for Units of Measure) system, which is a standard for representing units of measure in healthcare.  |
| code.refusalSystem      | String     | The refusalSystem member of type String in the SelectableItem class is used to store information related to the system or code used to indicate refusal or rejection of a particular item or action within an EHR software.  |
| code.relationshipSystem | String     | The relationshipSystem member of the String Type in the SelectableItem Type is used to represent the coding system or standard that defines the relationships between different entities or concepts within the EHR software.  |
| code.langLinking        | String[][] | The langLinking member of String[][] Type in the SelectableItem Type is used to store language-specific linking information. This information could be used to establish connections or relationships between different languages or translations within the EHR software. |
| code.langLinking.       | String[]   | The member of type String[] within the String[][] type is used to store a collection of strings, representing a set of values or information related to a specific data object in the EHR software.  |
| code.langLinking..      | String     | The member of String Type in the String[] Type is used to store multiple strings or text values related to a specific element or property in the EHR software. This allows for storing and manipulating multiple   |

|                         |               |  |
|-------------------------|---------------|--|
|                         |               | strings as a single entity, simplifying data management and retrieval within the software.   |
| code.linking            | String[][]    | The linking member of type String[][] in the SelectableItem class is used for storing links or references that are related to the selectable item. These links could be used to connect the item to additional resources, such as related documents, images, or external websites.                     |
| code.languageCodeSystem | String        | The languageCodeSystem member of string type in the SelectableItem type is used to store the coding system or standard used for representing language codes within the EHR software.   |
| targetSiteCode          | Code          | The targetSiteCode member of Code Type in the MedRecProcedure Type is used to specify the anatomical location or body site where a particular medical procedure was performed or is intended to be performed. It provides a standardized code that represents the specific site on the patient's body. |
| procType                | ProcedureType | The procType member of the ProcedureType Type in the MedRecProcedure Type is used to indicate the type of procedure being performed or recorded in the electronic health record (EHR) software. It is used for categorizing procedures and facilitating data retrieval and analysis in the system.     |
| procType.value__        | Int32         | The value__ member of the Int32 Type within the ProcedureType Type is used to store the underlying integer value of the ProcedureType enum. It allows for easy conversion between the enum value and its corresponding integer representation within the EHR software.                                 |
| procType.Invoice        | ProcedureType | The Invoice member of the ProcedureType  |

|                          |               |   |
|--------------------------|---------------|---|
|                          |               | Type is used to represent a procedure that is related to billing or invoicing in an electronic health record (EHR) software.  |
| procType.CPMMedComp      | ProcedureType | The CPMMedComp member of the ProcedureType type is used to indicate a procedure related to a Comprehensive Medication Management (CMM) component within an Electronic Health Record (EHR) software.   |
| reasonDoneCode           | String        | The reasonDoneCode member of String Type in the MedRecProcedure Type is used to record the code indicating the reason for performing the procedure in an Electronic Health Record (EHR) system.   |
| reasonNotDoneCode        | String        | The reasonNotDoneCode member of String Type in the MedRecProcedure Type is used to indicate the reason why a procedure was not performed or completed in the electronic health record software.   |
| dischargeDispositionCode | String        | dischargeDispositionCode is a string member of the MedRecProcedure type in the EHR software. It is used to store the code representing the disposition or outcome of a patient's discharge from a healthcare facility, such as discharge to home, transferred to another facility, or deceased. |



## Smoking Status - "ehr\_file" CSV Export

The ehr\_file table is used to store electronic health record (EHR) files related to smoking status. It contains various columns such as the unique patient ID, the type of file, the date and time of the record, and the actual data of the file. There are also columns for tracking the last modification of the file, the employee ID associated with the record, and other identifiers such as educational resources and patient uploads. The table allows for efficient retrieval and organization of smoking status records within an EHR software system.

| Column Name            | Data Type                   | Description   | Extraction Method               |
|------------------------|-----------------------------|---|---------------------------------|
| fid                    | int                         | The fid column is a unique identifier for each record in the ehr_file table.  | CSV                             |
| acctid                 | int                         | The acctid column represents the unique patient ID associated with the data in the ehr_file table.  | CSV                             |
| type                   | int                         | The type column in the ehr_file table represents the type of file that is stored.   | CSV                             |
| datet                  | datetime<br>default<br>NULL | The 'datet' column is a datetime value that represents the date and time when the file was created or last modified.  | CSV                             |
| data                   | longblob                    | The 'data' column in the 'ehr_file' table is a longblob type column that stores binary data. The data in this column is to be patient electronic health records (EHR) files, such as medical documents, test results, images, or other related information. | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the entry in the EHR file was last modified.  | CSV                             |
| empid                  | int                         | The empid column in the ehr_file table represents the unique employee ID associated with the record.  | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column indicates whether the file is identified as a patient   | CSV                             |

|                             |                             |  |     |
|-----------------------------|-----------------------------|--|-----|
|                             |                             | education resource.  |     |
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column stores the date and time when the patient education resource identification was last updated. | CSV |
| locid                       | int                         | The locid column is the unique identifier for the location where the EHR file is associated with.                                    | CSV |
| uploaded_pat                | tinyint                     | The `uploaded_pat` column indicates whether the file has been uploaded for a specific patient.                                       | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the file was uploaded for the patient.                                | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier generated when a record is inserted into the ehr_file table.                           | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the record was created in the ehr_file table.                              | CSV |
| sub_type                    | int                         | The sub_type column is an integer that represents a specific subcategory or subtype of the type of file stored in the EHR.           | CSV |

## MedRecSmokingStatus Type

MedRecSmokingStatus is a type used in electronic health record (EHR) software to store information related to the smoking status of a patient. It contains codes or identifiers that indicate the patient's smoking status, which can be used for tracking and monitoring purposes within the EHR system. A MedRecSmokingStatus is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name | Type                | Description  |
|-------------|---------------------|--|
|             | MedRecSmokingStatus | The code member of the MedRecSmokingStatus Type is used to store the code representing the smoking status of a patient in the EHR software.                      |
| code        | String              | The "code" member of the String Type in the MedRecSmokingStatus Type is used to store a code that represents the smoking status of a patient in an EHR software. |
| code2       | String              | The code2 member of String Type in the MedRecSmokingStatus Type is used to store additional information or details related to the smoking status of a patient.   |

## Implantable Device - "ehr\_file" CSV Export

The ehr\_file table is used to store files related to implantable devices in an electronic health records (EHR) system. It contains information such as the patient ID, type of implantable device, date and time of the file, and the actual file data. The table also includes additional metadata such as the last modified date and time, the employee ID associated with the file, and flags indicating if the file is for patient education resources or if it has been uploaded for processing. The table is used for tracking and managing implantable device documentation and information within the EHR system.

| Column Name            | Data Type                   | Description   | Extraction Method               |
|------------------------|-----------------------------|---|---------------------------------|
| fid                    | int                         | The fid column is an auto-incrementing, unsigned integer that serves as the primary key for the ehr_file table. | CSV                             |
| acctid                 | int                         | The acctid column is the unique patient ID associated with the record in the ehr_file table.                    | CSV                             |
| type                   | int                         | The type column in the ehr_file table represents the type of file stored in the data column.                    | CSV                             |
| datet                  | datetime<br>default<br>NULL | The datet column in the ehr_file table represents the datetime when the file was created or last modified.      | CSV                             |
| data                   | longblob                    | The data column in the ehr_file table stores the actual data of the electronic health record file.              | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the file was last modified.                     | CSV                             |
| empid                  | int                         | The empid column is the unique employee ID associated with the file record.                                     | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column determines whether the patient has been identified as                             | CSV                             |

|                             |                             |  |     |
|-----------------------------|-----------------------------|--|-----|
|                             |                             | an educational resource.   |     |
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column represents the date and time when the identification of patient education resources took place. | CSV |
| locid                       | int                         | The locid column represents the unique location ID associated with a record in the ehr_file table.                                     | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column is a boolean flag indicating whether the file has been successfully uploaded for the associated patient.       | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the file was uploaded for the patient.                                  | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier generated for each record that is inserted into the ehr_file table.                      | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the record in the ehr_file table was created.                                | CSV |
| sub_type                    | int                         | The sub_type column represents a sub-category or variation of the type of file stored in the ehr_file table.                           | CSV |

## MedRecImplantableDevice Type

The MedRecImplantableDevice type is used to store information about an implantable medical device within an EHR software. It includes a boolean flag to indicate if the date is set, a datetime field to store the date, an ImplantableDevice object which holds details about the device itself, and a statusCode field to track the status of the device. A MedRecImplantableDevice is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name       | Type                    | Description   |
|-------------------|-------------------------|---|
|                   | MedRecImplantableDevice | The member "Date" of the MedRecImplantableDevice Type is a DateTime variable that represents the date of the implantable device. It is used to store and track the date of when the device was implanted in a patient's body.                               |
| DataSet           | Boolean                 | The DataSet member of Boolean Type in the MedRecImplantableDevice Type is a flag that indicates whether the Date property has been set or not. It is used to track if a specific date has been recorded for the implantable device within the EHR software. |
| Date              | DateTime                | The Date member of the DateTime Type in the MedRecImplantableDevice Type is used to store the specific date associated with the implantable device.   |
| implantableDevice | ImplantableDevice       | The implantableDevice member of the ImplantableDevice Type is used to store information about a specific implantable device,  |

|                                    |         |   |
|------------------------------------|---------|---|
|                                    |         | such as its unique device identifier (UDI), device identifier, serial number, lot number, and distinct identification code. It also includes the expiration date and additional information obtained from a lookup result, parsed result, and the SNOMED result. This member is utilized to track and manage implantable devices within the EHR software. |
| implantableDevice.udi              | String  | The udi member of type String in the ImplantableDevice type represents the Unique Device Identifier. It is a unique alphanumeric code assigned to an implantable device to identify and track it within the electronic health record system.  |
| implantableDevice.isBloodBag       | Boolean | The isBloodBag member of Boolean Type in the ImplantableDevice represents whether the device is a blood bag or not. This indicates if the implantable device is specifically designed to store and transport blood.   |
| implantableDevice.deviceIdentifier | String  | The deviceIdentifier member of String Type in the ImplantableDevice Type is used to uniquely identify a specific implantable device. It is used for tracking and referencing purposes within the EHR software.  |
| implantableDevice.serialNumber     | String  | The serialNumber member of String Type in the ImplantableDevice Type is used  |

|   |             |  |
|---|-------------|--|
|   |             | to store the unique serial number assigned to the implantable device.  |
| implantableDevice.lotNumber                   | String      | The lotNumber member of String Type in the ImplantableDevice Type is used to store the lot number of an implantable device.  |
| implantableDevice.distinctIdentificationCode  | String      | The distinctIdentificationCode member of type String in the ImplantableDevice type is used to store a unique identifier for the device. This code could be used to uniquely identify an implantable device and may be used for tracking purposes or to reference the device in other systems or documents within the EHR software. |
| implantableDevice.expirationDateDaySpecified  | Boolean     | The expirationDateDaySpecified member is used to indicate whether the day value of the expiration date for an implantable device has been specified or not.  |
| implantableDevice.expirationDateHourSpecified | Boolean     | The expirationDateHourSpecified member of Boolean Type in the ImplantableDevice Type is used to indicate whether the expiration date of the implantable device includes the specific hour of the day or not.   |
| implantableDevice.lookupResult                | gudidDevice | The lookupResult member of the gucidDevice type is used to store the result of a lookup or search operation performed on a medical device database or registry. It may contain   |



|  |        |  |
|--|--------|--|
|  |        | information about the device's status, distribution, branding, description, manufacturing details, safety status, usage indications, product codes, and various other characteristics and data related to the device.  |
| implantableDevice.lookupResult.deviceRecordStatus            | String | The deviceRecordStatus member of type String in the gudidDevice class is used to indicate the current status of the device record.   |
| implantableDevice.lookupResult.devicePublishDate             | String | The devicePublishDate member of String Type in the gudidDevice Type is used to store the publication date of the device record in the Global Unique Device Identification Database (GUDID).  |
| implantableDevice.lookupResult.deviceCommDistributionEndDate | String | The deviceCommDistributionEndDate member of String Type in the gudidDevice Type is used to store the end date of the distribution period for the implantable device.   |
| implantableDevice.lookupResult.deviceCommDistributionStatus  | String | The deviceCommDistributionStatus member of String Type in the gudidDevice Type represents the distribution status of the implantable device communication. It indicates whether the device communication is currently being distributed or not, based on the EHR software's records. |
| implantableDevice.lookupResult.brandName                     | String | The brandName member of String Type in the gudidDevice Type represents the name of   |

|   |        |  |
|---|--------|--|
|   |        | the brand associated with the implantable device. It is used to identify the specific manufacturer or company that produces the device.  |
| implantableDevice.lookupResult.versionModelNumber | String | The versionModelNumber member of the String Type in the guididDevice Type represents the version or model number assigned to a specific implantable device. It is used to uniquely identify and differentiate different versions or models of the same device within the EHR software. |
| implantableDevice.lookupResult.catalogNumber      | String | The catalogNumber member in the guididDevice type is a string that represents the unique catalog number of an implantable device. It is used for identification and tracking purposes within the EHR software.   |
| implantableDevice.lookupResult.companyName        | String | The companyName member of String Type in the guididDevice Type is used to store the name of the company that manufactures or distributes the implantable device.   |
| implantableDevice.lookupResult.deviceCount        | String | The deviceCount member of String Type in the guididDevice Type represents the count or quantity of the specific implantable device described in the record. It indicates the number of devices of the same type or model that are available or have been used.                         |
| implantableDevice.lookupResult.deviceDescription  | String | The deviceDescription member is a String that provides a brief   |

|   |        |   |
|---|--------|---|
| Description   |        | description of the implantable device. It is used to store information about the specific type or model of the device for reference and identification purposes within the EHR system.  |
| implantableDevice.lookupResult.DMExempt                 | String | The DMExempt member of type string in the guididDevice class is a flag indicating whether the device is exempt from complying with certain requirements under the FDA's De Novo classification process.                       |
| implantableDevice.lookupResult.premarketExempt          | String | The premarketExempt member of type String in the guididDevice type is used to indicate whether or not the medical device is exempt from premarket notification requirements set by the US Food and Drug Administration (FDA). |
| implantableDevice.lookupResult.deviceHCTP               | String | The deviceHCTP member in the guididDevice Type is used to indicate if the implantable device is Human Cellular and Tissue-based Product (HCT/P).  |
| implantableDevice.lookupResult.deviceKit                | String | The deviceKit member of String Type in the guididDevice Type is used to indicate whether the device is a kit or not.  |
| implantableDevice.lookupResult.deviceCombinationProduct | String | The deviceCombinationProduct member of String type in the guididDevice type is used to indicate whether the implantable device is a combination product, which refers to a product comprised of two or more regulated         |

|  |        |   |
|--|--------|---|
|  |        | components, such as a device and a drug.  |
| implantableDevice.lookupResult.singleUse         | String | The "singleUse" member of the "gudidDevice" type in the EHR software is a string that indicates whether the device is intended for single use only.   |
| implantableDevice.lookupResult.lotBatch          | String | The lotBatch member of String Type in the guididDevice Type is used to store the lot or batch number of the implantable device. It is used to uniquely identify a specific group or batch of devices that were manufactured together.                         |
| implantableDevice.lookupResult.serialNumber      | String | The serialNumber member of the guididDevice Type is a String Type that represents the unique serial number assigned to the implantable device. It is used for tracking and identification purposes within the Electronic Health Record (EHR) system.          |
| implantableDevice.lookupResult.manufacturingDate | String | The manufacturingDate member of type String in the guididDevice class is used to store the date when the implantable device was manufactured.   |
| implantableDevice.lookupResult.expirationDate    | String | The expirationDate member of type String in the guididDevice class is used to store the expiration date of the Implantable Device. This date indicates the time after which the device should no longer be used due to potential safety or efficacy concerns. |

|   |        |  |
|---|--------|--|
| implantableDevice.lookupResult.donationIdNumber   | String | The donationIdNumber member of String Type in the gudidDevice Type is used to store the identification number associated with the donation of the implantable device.  |
| implantableDevice.lookupResult.labeledContainsNRL | String | The labeledContainsNRL member is a string that indicates whether the device is labeled to contain non-reusable components. It is used to provide information about the device's labeling and packaging instructions for healthcare professionals and patients, ensuring the proper handling and disposal of the device.  |
| implantableDevice.lookupResult.labeledNoNRL       | String | The "labeledNoNRL" member of the gudidDevice Type is a string that indicates whether the implantable device is labeled as not containing natural rubber latex (NRL). This information is used in the context of electronic health records (EHR) software to identify and track devices that do not contain NRL, which is important for patients with latex allergies or sensitivities. |
| implantableDevice.lookupResult.MRISafetyStatus    | String | The MRISafetyStatus member of String Type in the gudidDevice Type represents the magnetic resonance imaging (MRI) safety status of the implantable device. It is used to indicate whether the device is safe to use during MRI procedures.   |

|  |                                    |  |
|--|------------------------------------|--|
| implantableDevice.lookupResult.rx                    | String                             | The "rx" member of type String is used to indicate whether the device is a prescription product or not.  |
| implantableDevice.lookupResult.otc                   | String                             | The "otc" member of String Type in the gudidDevice Type is used to indicate whether the implantable device is available for over-the-counter purchase without a prescription.  |
| implantableDevice.lookupResult.deviceSizes           | gudidDeviceDeviceSizesDeviceSize[] | The deviceSizes member of the gudidDeviceDeviceSizesDeviceSize[] Type is used to store information about the various sizes or dimensions of the implantable device. It may contain properties such as length, width, and height, or any other relevant measurements related to the size of the device. |
| implantableDevice.lookupResult.deviceSizes.          | gudidDeviceDeviceSizesDeviceSize   | The member "size" of the gudidDeviceDeviceSizesDeviceSize type is used to store the different sizes available for a particular implantable device.   |
| implantableDevice.lookupResult.deviceSizes..sizeType | String                             | The sizeType member of String Type in the gudidDeviceDeviceSizesDeviceSize Type is used to specify the type or category of the device size for an implantable device.  |
| implantableDevice.lookupResult.deviceSizes..sizeText | String                             | The sizeText member of String Type in the gudidDeviceDeviceSizesDeviceSize Type is used to store text descriptions or labels associated with the size of an implantable device. It provides a human-readable   |

|   |  |   |
|---|--|---|
|   |  | representation of the size information, which can be displayed and communicated to healthcare professionals or patients using the EHR software.   |
| implantableDevice.lookupResult.deviceSizes..size        | gudidDeviceDeviceSizesDeviceSizeSize[] | The size member of the guudidDeviceDeviceSizesDeviceSizeSize[] type is used to store the different size options available for a specific device in the registry.  |
| implantableDevice.lookupResult.deviceSizes..size.       | gudidDeviceDeviceSizesDeviceSizeSize   | The member "value" in the guudidDeviceDeviceSizesDeviceSizeSize Type is used to store the numerical value of the size of an implantable device.   |
| implantableDevice.lookupResult.deviceSizes..size..unit  | String                                 | The "unit" member of type String in the guudidDeviceDeviceSizesDeviceSizeSize is used to represent the unit of measurement for the size value of an implantable device.   |
| implantableDevice.lookupResult.deviceSizes..size..value | String                                 | The value member of String Type in the guudidDeviceDeviceSizesDeviceSizeSize Type is used to store the measurement value of the device size in the EHR software.  |
| implantableDevice.lookupResult.identifiers              | gudidDeviceIdentifiersIdentifier[]     | The identifiers member of the guudidDeviceIdentifiersIdentifier[] Type is used to store the identifiers associated with the device, such as the FDA Identifier, the Unique Device Identifier (UDI), and any other relevant identifier used to track and identify the device in the electronic health record (EHR) |

|   |                                  |  |
|---|----------------------------------|--|
|   |                                  | system.  |
| implantableDevice.lookupResult.identifiers.                       | gudidDeviceIdentifiersIdentifier | The member of the <code>gudidDeviceIdentifiersIdentifier</code> Type is used to store information about the identifier of an implantable device, such as the device ID, type, issuing agency, and package details. It is used for tracking and identification purposes within the EHR software.  |
| implantableDevice.lookupResult.identifiers..deviceId              | String                           | The <code>deviceId</code> member of <code>String</code> Type in the <code>gudidDeviceIdentifiersIdentifier</code> Type is used to store a unique identifier for the implantable device. This identifier can be used to track and identify the device within the EHR system.  |
| implantableDevice.lookupResult.identifiers..deviceIdType          | String                           | The <code>deviceIdType</code> member of <code>String</code> Type in the <code>gudidDeviceIdentifiersIdentifier</code> Type is used to define the type or category of the device identifier. It could specify whether the <code>deviceId</code> is a serial number, model number, lot number, or any other type of identifier for the device. |
| implantableDevice.lookupResult.identifiers..deviceIdIssuingAgency | String                           | The <code>deviceIdIssuingAgency</code> member of the <code>gudidDeviceIdentifiersIdentifier</code> type represents the agency or organization responsible for issuing the unique identifier for the medical device.  |
| implantableDevice.lookupResult.identifiers..containsDINumber      | String                           | The <code>containsDINumber</code> member of the <code>gudidDeviceIdentifiersIdentifier</code>  |



|  |                                      |   |
|--|--------------------------------------|---|
|  |                                      | type is used to store the DIN (Device Identifiers Number) associated with the specific implantable device.  |
| implantableDevice.lookupResult.identifiers..pkgQuantity        | String                               | The pkgQuantity member of String Type in the gudidDeviceIdentifiersIdentifier Type is used to store the quantity of the packaged units for the corresponding implantable device.  |
| implantableDevice.lookupResult.identifiers..pkgDiscontinueDate | String                               | The pkgDiscontinueDate member of String Type is used to store the discontinuation date of a package associated with the implantable device.   |
| implantableDevice.lookupResult.identifiers..pkgStatus          | String                               | The pkgStatus member of the gudidDeviceIdentifiersIdentifier Type is used for indicating the status of the package that the device identifier belongs to.   |
| implantableDevice.lookupResult.contacts                        | gudidDeviceContactsCustomerContact[] | The contacts member of gudidDeviceContactsCustomerContact[] Type is used to store contact information for customers or users associated with the GUDID device. This could include details such as names, email addresses, phone numbers, and other contact information. |
| implantableDevice.lookupResult.contacts.                       | gudidDeviceContactsCustomerContact   | The member "gudidDeviceContactsCustomerContact" of the "gudidDeviceContactsCustomerContact[]" type in the EHR software is used to store contact information of a customer or user associated with a GUDID (Global Unique  |

|  |                             |   |
|--|-----------------------------|---|
|  |                             | Device Identification Database) device. This information may include the customer's phone number, phone extension, and email address.   |
| implantableDevice.lookupResult.contacts.phone          | String                      | The phone member of String Type in the gudidDeviceContactsCustomer Contact Type is used to store the phone number of the customer contact associated with a specific medical device in an EHR software.   |
| implantableDevice.lookupResult.contacts.phoneExtension | String                      | The phoneExtension member of String Type in the gudidDeviceContactsCustomer Contact Type is used to store an extension number associated with a phone number in an electronic health record (EHR) software.   |
| implantableDevice.lookupResult.contacts.email          | String                      | The email member of the gudidDeviceContactsCustomer Contact Type is used to store the email address of a customer contact associated with a medical implantable device in an EHR software system.   |
| implantableDevice.lookupResult.gmdnTerms               | gudidDeviceGmdnTermsGmdn[ ] | The gmdnTerms member of gudidDeviceGmdnTermsGmdn[ ] is used to store the Global Medical Device Nomenclature (GMDN) terms associated with a specific medical device. It provides standardized and internationally recognized terminology to describe the device's purpose, function, and classification. |

|  |   |   |
|--|---|---|
| implantableDevice.lookupResult.gmdnTerms.                  | gudidDeviceGmdnTermsGmdn                | The member guididPTDefinition is a string that represents the definition of a particular GMDN (Global Medical Device Nomenclature) term associated with an implantable device. It is used to provide additional information and description about the GMDN term for documentation and reference purposes within the EHR software. |
| implantableDevice.lookupResult.gmdnTerms..gmdnPTName       | String                                  | The gmdnPTName member of String Type in the guididDeviceGmdnTermsGmdn Type is used to store the name of a medical device as defined in the Global Medical Device Nomenclature (GMDN) system.  |
| implantableDevice.lookupResult.gmdnTerms..gmdnPTDefinition | String                                  | The gmdnPTDefinition member is used to store the definition of the GMDN (Global Medical Device Nomenclature) term associated with the implantable device in the EHR software.   |
| implantableDevice.lookupResult.productCodes                | gudidDeviceProductCodesFdaProductCode[] | The `productCodes` member of the `gudidDeviceProductCodesFdaProductCode[]` type is used to store the FDA product codes associated with the implantable device. These codes provide information about the regulatory classification and categorization of the device by the Food and Drug Administration.                          |
| implantableDevice.lookupResult.productCodes                | gudidDeviceProductCodesFdaProductCode[] | The member `gudidDeviceProductCodesFdaProductCode[]` is used to store the FDA product codes associated with the implantable device. These codes provide information about the regulatory classification and categorization of the device by the Food and Drug Administration.   |

|  |   |  |
|--|---|--|
| ctCodes.   | productCode   | ProductCode` appears to store information related to product codes assigned by the Food and Drug Administration (FDA) for an implantable device. It includes the product code itself (`productCode`) and a corresponding name or description (`productCodeName`). This information may be used for regulatory purposes or for identifying specific implantable devices in the electronic health record (EHR) software. |
| implantableDevice.lookupResult.productCodes..productCode     | String  | The productCode member of String Type in the gudidDeviceProductCodesFdaProductCode Type is used to store the unique code assigned by the FDA to identify a specific medical device product. This code is used in electronic health records (EHRs) to accurately identify and track the specific implantable device.  |
| implantableDevice.lookupResult.productCodes..productCodeName | String  | The productCodeName member of String Type is used to store the name or description of a product code associated with an implantable device in the EHR software.  |
| implantableDevice.lookupResult.environmentalConditions       | gudidDeviceEnvironmentalConditionsStorageHandling[] | The `environmentalConditions` member of the `gudidDeviceEnvironmentalConditionsStorageHandling[]` type is used to store information about the recommended storage and handling conditions for the implantable device.  |

|   |   |  |
|---|---|--|
| implantableDevice.lookupResult.environmentalConditions.                                     | gudidDeviceEnvironmentalConditionsStorageHandling | The member "storageHandlingType" of the gudidDeviceEnvironmentalConditionsStorageHandling type is used to store the type of storage handling for an implantable device. It may indicate whether the device requires special storage conditions or handling procedures.   |
| implantableDevice.lookupResult.environmentalConditions..storageHandlingType                 | String  | The storageHandlingType member of the gudidDeviceEnvironmentalConditionsStorageHandling Type is a string that represents the type of storage or handling condition for an implantable device. It is used to specify the specific requirements or instructions for storing or handling the device, such as temperature, humidity, or special conditions.  |
| implantableDevice.lookupResult.environmentalConditions..storageHandlingSpecialConditionText | String  | The `storageHandlingSpecialConditionText` member of type `String` in the `gudidDeviceEnvironmentalConditionsStorageHandling` type is used to store any special conditions or instructions related to the storage and handling of the implantable device. It could include information such as temperature requirements, specific handling procedures, or any other relevant instructions for maintaining the device's integrity. |
| implantableDevice.lookupResult.environmentalConditions..storageHandlingHigh                 | gudidDeviceEnvironmentalConditionsStorageHandling | The storageHandlingHigh  |

|  |  |  |
|--|--|--|
| implantableDevice.lookupResult.environmentalConditions..storageHandlingHigh        | gudidDeviceEnvironmentalConditionsStorageHandlingStorageHandlingHigh[] | member of the <code>gudidDeviceEnvironmentalConditionsStorageHandlingStorageHandlingHigh[]</code> type is a collection of high storage temperature conditions for an implantable medical device. It is used to specify the upper limits of temperature at which the device can be stored safely.   |
| implantableDevice.lookupResult.environmentalConditions..storageHandlingHigh.       | gudidDeviceEnvironmentalConditionsStorageHandlingStorageHandlingHigh   | The member "value" of the <code>gudidDeviceEnvironmentalConditionsStorageHandlingStorageHandlingHigh</code> Type represents the numerical value of the environmental storage handling condition associated with an implantable device. It is used to store quantitative data related to the specific storage condition required for proper storage and handling of the device within the EHR software. |
| implantableDevice.lookupResult.environmentalConditions..storageHandlingHigh..unit  | String   | The unit member of type <code>String</code> in the <code>gudidDeviceEnvironmentalConditionsStorageHandlingStorageHandlingHigh</code> is used to specify the unit of measurement for the value member.  |
| implantableDevice.lookupResult.environmentalConditions..storageHandlingHigh..value | String   | The value member of type <code>String</code> in the <code>gudidDeviceEnvironmentalConditionsStorageHandlingStorageHandlingHigh</code> represents a numerical value or measurement associated with the environmental conditions of an implantable device, specifically related to its storage and handling. It is used  |

|   |   |  |
|---|---|--|
|   |   | to store temperature, humidity, pressure, or other relevant data to ensure the proper storage and handling of the device.  |
| implantableDevice.lookupResult.environmentalConditions..storageHandlingLow        | gudidDeviceEnvironmentalConditionsStorageHandlingStorageHandlingLow[] | The storageHandlingLow member of gudidDeviceEnvironmentalConditionsStorageHandlingStorageHandlingLow[] type is used to store the low range values for the environmental conditions related to the storage and handling of an implantable device.                   |
| implantableDevice.lookupResult.environmentalConditions..storageHandlingLow.       | gudidDeviceEnvironmentalConditionsStorageHandlingStorageHandlingLow   | The member "unit" of the gudidDeviceEnvironmentalConditionsStorageHandlingStorageHandlingLow Type represents the unit of measurement for the storage handling low value.   |
| implantableDevice.lookupResult.environmentalConditions..storageHandlingLow..unit  | String  | The unit member of the String Type in the gudidDeviceEnvironmentalConditionsStorageHandlingStorageHandlingLow Type is used to store the unit of measurement for the value of the environmental condition related to storage and handling of an implantable device. |
| implantableDevice.lookupResult.environmentalConditions..storageHandlingLow..value | String  | The value member of String Type in the gudidDeviceEnvironmentalConditionsStorageHandlingStorageHandlingLow Type is used to store a numeric value that represents a measurement of environmental conditions related to the storage and handling of an implantable   |

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|---|----------------------------|--|
|   |                            | device.  |
| implantableDevice.lookupResult.sterilization                          | gudidDeviceSterilization[] | The sterilization member of <code>gudidDeviceSterilization[]</code> Type is used to store information related to the sterilization process of the device. It may include details such as sterilization method, sterilization cycle parameters, and any additional information specific to the device's sterilization requirements. |
| implantableDevice.lookupResult.sterilization.                         | gudidDeviceSterilization   | The member <code>`gudidDeviceSterilization`</code> in the <code>`gudidDeviceSterilization[]`</code> type is used to store information about the sterilization of a medical device. It may contain details such as whether the device is sterile, the method of sterilization used, and any prior sterilization steps taken.        |
| implantableDevice.lookupResult.sterilization..deviceSterile           | String                     | The <code>deviceSterile</code> member of <code>String</code> Type in the <code>gudidDeviceSterilization</code> Type is used to indicate whether the implantable device is sterilized or not.   |
| implantableDevice.lookupResult.sterilization..sterilizationPriorToUse | String                     | The <code>sterilizationPriorToUse</code> member is a string that represents the sterilization method used on a medical device before its use. It indicates the specific process or treatment that was applied to ensure the device is sterile and safe for patient use.  |
| implantableDevice.lookupResult.sterilization..methodTypes             | String                     | The <code>`methodTypes`</code> member of the <code>`gudidDeviceSterilization`</code>   |



|   |        |   |
|---|--------|---|
| ation..methodTypes                            |        | type in the EHR software is used to store information about the different methods of sterilization used for an implantable device.  |
| implantableDevice.parsedResult                | result | The parsedResult member of the result Type is used to store the parsed information obtained from the Implantable Device's Unique Device Identifier (UDI). It may contain details such as the issuing agency, device identifier, serial number, lot number, expiration date, and manufacturing date. |
| implantableDevice.parsedResult.udi            | String | The udi member of type String in the result class is used to store the Unique Device Identifier (UDI). It represents a unique code assigned to a medical device used for identification and tracking purposes in the electronic health record (EHR) system.   |
| implantableDevice.parsedResult.issuing agency | String | The "issuingagency" member of type String in the "result" class is used to store the agency or organization responsible for issuing the unique device identifier (UDI) for the implantable device.  |
| implantableDevice.parsedResult.di             | String | The "di" member of type String in the "result" type is used to store the Device Identifier (DI) for an implantable device.  |
| implantableDevice.parsedResult.serialNumber   | String | The serialnumber member of String Type in the result Type is used to store the unique serial number associated with an  |

|  |        |  |
|--|--------|--|
|  |        | implantable device.  |
| implantableDevice.parsedResult.donationid                      | String | The donationid member of String Type in the result Type is used to store the identifier or reference number associated with the donation of the implantable device.  |
| implantableDevice.parsedResult.expirationdateoriginalformat    | String | The expirationdateoriginalformat member of String Type in the result Type is used to store the original format of the expiration date of an implantable device. It provides information about how the expiration date is represented or formatted in its original source.        |
| implantableDevice.parsedResult.expirationdateoriginal          | String | The expirationdateoriginal member of String type in the result class is used to store the original expiration date of an implantable device.   |
| implantableDevice.parsedResult.manufacturingdateoriginalformat | String | The manufacturingdateoriginalformat member of String Type is used to store the original format of the manufacturing date for an Implantable Device.  |
| implantableDevice.parsedResult.manufacturingdateoriginal       | String | The manufacturingdateoriginal member is a string that represents the original manufacturing date of an implantable device. It is used in the context of electronic health record (EHR) software to document and track the manufacturing history of the device for regulatory and |

|  |                           |   |
|--|---------------------------|---|
|  |                           | quality control purposes.   |
| implantableDevice.parsedResult.lotnumber             | String                    | The lotnumber member of String Type in the result Type is used to store the lot number or batch number assigned to a specific implantable device.   |
| implantableDevice.parsedResult.expirationdate        | resultExpirationdate[]    | The expirationdate member of the resultExpirationdate[] type is used to store the expiration dates associated with the implantable device.  |
| implantableDevice.parsedResult.expirationdate.       | resultExpirationdate      | The member "Value" in the resultExpirationdate type is used to store the expiration date value for a specific type of result related to an implantable device.  |
| implantableDevice.parsedResult.expirationdate..type  | String                    | The type member of String Type in the resultExpirationdate Type is used to describe the type or category of the expiration date associated with an implantable device in EHR software.                        |
| implantableDevice.parsedResult.expirationdate..Value | String                    | The Value member of the String Type in the resultExpirationdate Type is used to store a specific value related to the expiration date of a result.  |
| implantableDevice.parsedResult.manufacturingdate     | resultManufacturingdate[] | The manufacturingdate member of the resultManufacturingdate[] type represents the manufacturing dates associated with an implantable device. It stores the manufacturing date information in an array format. |

|   |                          |  |
|---|--------------------------|--|
| implantableDevice.parsedResult.manufacturingdate.       | resultManufacturingdate  | The member of the resultManufacturingdate Type is used to store information about the manufacturing date of an implantable device.   |
| implantableDevice.parsedResult.manufacturingdate..type  | String                   | The type member of the String Type in the resultManufacturingdate Type is used to indicate the type or category of the manufacturing date of an implantable device.  |
| implantableDevice.parsedResult.manufacturingdate..Value | String                   | The Value member of the String Type in the resultManufacturingdate Type is used to store the manufacturing date of an implantable device in a string format.   |
| implantableDevice.snomedResult                          | snomed                   | The snomedResult member of the snomed Type is used to store the SNOMED CT codes and associated information related to the Implantable Device.  |
| implantableDevice.snomedResult.snomedCTName             | String                   | The snomedCTName member of String Type in the snomed Type is used to store the name or description of a concept or term defined in the SNOMED CT (Systematized Nomenclature of Medicine Clinical Terms) terminology. This allows the EHR software to capture and identify specific medical concepts or terms for documentation and data analysis purposes. |
| implantableDevice.snomedResult.snomedIdentifier         | snomedSnomedIdentifier[] | The snomedIdentifier member of the snomedSnomedIdentifier[]  |

|  |                        |   |
|--|------------------------|---|
|  |                        | <p>type is used to store the SNOMED CT identifiers associated with a specific concept or term in the context of the EHR software. SNOMED CT is a comprehensive clinical terminology system used in electronic health records to represent clinical concepts and support interoperability between different healthcare systems.</p>            |
| implantableDevice.snomedResult.snomedIdentifier.       | snomedSnomedIdentifier | <p>The member "type" in the snomedSnomedIdentifier Type is used to specify the type of SNOMED identifier being used, such as a concept code or a description code.</p>  |
| implantableDevice.snomedResult.snomedIdentifier..type  | String                 | <p>The type member of String Type in the snomedSnomedIdentifier Type is used to store the type of the SNOMED identifier.</p>  |
| implantableDevice.snomedResult.snomedIdentifier..Value | String                 | <p>The Value member of the String Type in the snomedSnomedIdentifier Type is used to store the unique identifier value for a specific SNOMED code.</p>  |
| implantableDevice.snomedResult.snomed1                 | snomed[]               | <p>The snomed1 member of the snomed[] type is used to store additional SNOMED CT codes associated with a specific concept. SNOMED CT is a standardized medical vocabulary used in electronic health records (EHRs) to represent clinical concepts and relationships. This member allows for the inclusion of multiple SNOMED CT codes for</p> |

|   |        |   |
|---|--------|---|
|   |        | a single concept, providing more comprehensive clinical information.  |
| implantableDevice.snomedResult.snomed1. | snomed | The member of the snomed[] type is used to store the information related to a specific medical concept or term from the Systematized Nomenclature of Medicine-Clinical Terms (SNOMED-CT) coding system. |
| implantableDevice.snomedResult.type     | String | The type member of String Type in the snomed Type is used to store a string value representing the type or category of the snomed instance.   |
| statusCode                              | String | The statusCode member of type String in the MedReclImplantableDevice class is used to indicate the status or condition of the implantable device in the electronic health record (EHR) software.        |

## Order Group - "order\_groups" CSV Export

The order\_groups table is a collection of groups of orders within an EHR software. Each order group is associated with a specific patient and is identified by a unique ID. The table contains information such as the account ID of the patient, the date and time the order group was created and last modified, order numbers for the placer and filler of the group, the lab associated with the order group, and various lists of statuses, associated information, and item information related to the orders within the group. The table also includes a flag to indicate if the order group is hidden and an XML field that may store additional information.

| Column Name            | Data Type                                       | Description   | Extraction Method |
|------------------------|---|---|-------------------|
| id                     | bigint  | The 'id' column is a primary key column that uniquely identifies each record in the 'order_groups' table.                     | CSV               |
| acctid                 | int   | The acctid column is the unique identifier for an account in the database.  | CSV               |
| insert_guid            | varchar   | The insert_guid column is a unique identifier generated for each record at the time of insertion into the order_groups table. | CSV               |
| created_datetime       | datetime NOT NULL default '0000-00-00 00:00:00' | The created_datetime column represents the date and time when the order group was initially created.                          | CSV               |
| last_modified_datetime | datetime NOT NULL default '0000-00-00 00:00:00' | The last_modified_datetime column stores the date and time when the record in the order_groups table was last modified.       | CSV               |
| order_num              | varchar   | The order_num column is a unique identifier for an order within the order group.  | CSV               |
| placer_order_num       | varchar   | The placer_order_num column is a varchar(32) column that stores the order number assigned by the entity placing the           | CSV               |

|                  |         |   |                              |
|------------------|---------|---|------------------------------|
|                  |         | order.  |                              |
| filler_order_num | varchar | The filler_order_num column stores the order number assigned by the filler to track and manage the order.   | CSV                          |
| lab              | int     | The lab column represents the ID of the laboratory associated with the order group.                         | CSV                          |
| status_list      | text    | The status_list column contains a list of statuses associated with the order group.                         | CSV                          |
| assoc_info_list  | text    | The assoc_info_list column contains a list of associated information related to the order group.            | CSV                          |
| item_info_list   | text    | The item_info_list column contains a list of information related to the items ordered in a group of orders. | CSV                          |
| hidden           | tinyint | The hidden column indicates whether the order group is hidden or not.                                       | CSV                          |
| xml              | text    | The xml column is a text field that stores XML data.  | CSV + XML<br>Deserialization |



## OrderGroup Type

The OrderGroup Type is used to store information related to an order for medical tests or procedures within an electronic health record (EHR) system. It may contain a HL7 message as well as separate DataTables for message information, patient demographics, and patient visit details. This type could potentially be used to manage and track orders submitted by healthcare providers and the associated patient information. A OrderGroup is serialized as XML in the xml column in the order\_groups table.

| Member Name | Type       | Description   |
|-------------|------------|---|
|             | OrderGroup | The member "hl7Msg" of the OrderGroup Type is a string that stores an HL7 message. It is used to store the HL7 message related to the order group for communication and integration purposes within an EHR software.            |
| hl7Msg      | String     | The hl7Msg member of String Type in the OrderGroup is used to store an HL7 message, which is a standard format for exchanging healthcare information between different systems, such as electronic health record (EHR) systems. |
| msgInfoDT   | DataTable  | The msgInfoDT member of the DataTable type in the OrderGroup is used to store information about the HL7 message, such as message type, message date/time, sender information, receiver information, and other                   |

|                                  |                     |   |
|----------------------------------|---------------------|---|
|                                  |                     | relevant metadata.  |
| msgInfoDT.CaseSensitive          | Boolean             | The CaseSensitive member of the Boolean Type in the DataTable represents whether the data stored in the DataTable is considered case-sensitive or not. In the context of an EHR software, this member may be used to determine how string comparisons and searches are performed within the DataTable.                        |
| msgInfoDT.RemotingFormat         | SerializationFormat | The RemotingFormat member of the SerializationFormat Type in the DataTable represents the serialization format used for remote communication of the data. It is used in the EHR software to determine how the DataTable object is serialized and deserialized when transferring data between different systems or components. |
| msgInfoDT.RemotingFormat.value__ | Int32               | The value__ member of the Int32 Type in the SerializationFormat Type is used to store the numerical value of the SerializationFormat enumeration.   |
| msgInfoDT.RemotingFormat.Xml     | SerializationFormat | The Xml member of the SerializationFormat Type is used to store or exchange data in a serialized XML format. It is used to represent complex data structures, such as the   |

|                                 |                     |  |
|---------------------------------|---------------------|--|
|                                 |                     | OrderGroup object, in a standardized and human-readable manner.  |
| msgInfoDT.RemotingFormat.Binary | SerializationFormat | The Binary member of the SerializationFormat Type is used for serializing and deserializing data in a binary format. It is used for efficient data storage and retrieval in an EHR software, where speed and compactness are important considerations.   |
| msgInfoDT.DisplayExpression     | String              | The DisplayExpression member of the String Type in the DataTable Type is used to specify the expression used to display the data in a column of the DataTable. It allows for customization of how the data is presented, by combining values from multiple columns or applying formatting rules.                                   |
| msgInfoDT.Locale                | CultureInfo         | The Locale member of the CultureInfo type in the DataTable class is used to represent the specific culture or region settings associated with the data stored in the DataTable. It determines how numbers, currencies, dates, and times are formatted and displayed according to the cultural conventions of the specified locale. |
| msgInfoDT.Locale.CurrentCulture | CultureInfo         | The CurrentCulture member of the CultureInfo Type is used to determine   |

|  |             |   |
|--|-------------|---|
|  |             | the formatting and parsing conventions for numeric and date/time values in a specific culture or locale. It specifies the cultural preferences and settings that are applied to the current thread. This member is crucial in an EHR software as it ensures that the displayed data and user input are formatted correctly according to the user's cultural and regional preferences. |
| msgInfoDT.Locale.CurrentUICulture              | CultureInfo | The CurrentUICulture member of the CultureInfo Type determines the current culture that is used for displaying user interface elements in an EHR software.  |
| msgInfoDT.Locale.DefaultThreadCurrentCulture   | CultureInfo | The DefaultThreadCurrentCulture member of the CultureInfo Type in the EHR software is used to set the default culture and language settings for the current thread.   |
| msgInfoDT.Locale.DefaultThreadCurrentUICulture | CultureInfo | The DefaultThreadCurrentUICulture member of the CultureInfo Type in EHR software is used to determine the default UI culture for the current thread. It specifies the language and culture settings that are used for displaying user interface elements, such as date  |

|  |                  |   |
|--|------------------|---|
|  |                  | formats, number formats, and currency symbols.  |
| msgInfoDT.Locale.NumberFormat                          | NumberFormatInfo | The NumberFormat member of the NumberFormatInfo Type in the CultureInfo Type is used to define the formatting options for numeric values, such as decimal and currency representations. It includes properties such as the decimal separator, group separator, currency symbol, and negative number formatting patterns. It is used in the EHR software to display numeric data consistently and according to user preferences. |
| msgInfoDT.Locale.NumberFormat.CurrencyDecimalDigits    | Int32            | The CurrencyDecimalDigits member of the Int32 Type in the NumberFormatInfo Type represents the number of decimal digits to be displayed for currency values. It is used to determine the formatting of currency values when displaying them in the electronic health record software.   |
| msgInfoDT.Locale.NumberFormat.CurrencyDecimalSeparator | String           | The CurrencyDecimalSeparator member of the String Type in the NumberFormatInfo Type is a string that represents the character used as the decimal separator in currency values. It is used to format  |

|   |         |  |
|---|---------|--|
|   |         | and display currency values correctly according to the specified culture.  |
| msgInfoDT.Locale.NumberFormat.CurrencyGroupSizes  | Int32[] | The CurrencyGroupSizes member of type Int32[] in the NumberFormatInfo class represents the sizes of the groups used to format currency values in the EHR software. It specifies the number of digits in each group when displaying a currency value, such as thousands, millions, billions, etc.   |
| msgInfoDT.Locale.NumberFormat.CurrencyGroupSizes. | Int32   | The Int32 member of the Int32[] Type is used to store and manipulate integer values within an array structure. It is commonly used in programming languages for various calculations and operations, such as indexing, counting, or storing numerical data. In the context of an EHR software, this member may be used to store specific integer values related to medical or patient information, such as patient IDs, lab test results, or appointment timestamps. |
| msgInfoDT.Locale.NumberFormat.NumberGroupSizes    | Int32[] | The NumberGroupSizes member of type Int32[] in NumberFormatInfo is used to specify the sizes of groups that are used when formatting numbers. Each integer value in the array  |

|  |         |   |
|--|---------|---|
|  |         | represents the number of digits in each group, starting from the least significant digit. This allows for the formatting of numbers with thousands separators or other grouping symbols as specified by the culture settings. |
| msgInfoDT.Locale.NumberFormat.PercentGroupSizes      | Int32[] | The PercentGroupSizes member of the Int32[] Type in the NumberFormatInfo Type is used to define the grouping sizes for the digits in the formatting of percentages.   |
| msgInfoDT.Locale.NumberFormat.CurrencyGroupSeparator | String  | The CurrencyGroupSeparator member of the String Type in the NumberFormatInfo Type is used to determine the character used to separate groups of digits in currency values.  |
| msgInfoDT.Locale.NumberFormat.CurrencySymbol         | String  | The CurrencySymbol member of the String type in the NumberFormatInfo class is used to represent the symbol or character used to denote currency in the formatting of numerical values in the EHR software.                    |
| msgInfoDT.Locale.NumberFormat.NaNSymbol              | String  | The NaNSymbol member of the NumberFormatInfo Type in EHR software is used to represent the symbol used to denote a "Not a Number" value in  |

|   |       |   |
|---|-------|---|
|   |       | numeric formatting and parsing operations.  |
| msgInfoDT.Locale.NumberFormat.CurrencyNegativePattern | Int32 | The CurrencyNegativePattern member of the Int32 type in the NumberFormatInfo class represents the pattern used to display negative currency values. It determines how the negative sign and parentheses are displayed in currency values. For example, it defines whether a negative currency value is displayed as "\$1.23" or "(1.23\$)". In the context of an EHR software, it is used for formatting and displaying currency values in a consistent and user-friendly manner. |
| msgInfoDT.Locale.NumberFormat.NumberNegativePattern   | Int32 | The NumberNegativePattern member of the Int32 Type in the NumberFormatInfo Type is a value that represents the formatting pattern for negative numbers in numerical data. It is used in the EHR software to determine how negative numbers should be displayed in reports, forms, or other user interfaces.   |
| msgInfoDT.Locale.NumberFormat.PercentPositivePattern  | Int32 | The PercentPositivePattern member of the Int32 Type in the NumberFormatInfo Type is used to determine the formatting pattern for  |



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|  |        | positive percent values. This pattern governs how positive percentages are displayed in the EHR software.  |
| msgInfoDT.Locale.NumberFormat.PercentNegativePattern | Int32  | The PercentNegativePattern member of the Int32 Type in the NumberFormatInfo Type is used to determine the formatting pattern for negative percent values in the EHR software.  |
| msgInfoDT.Locale.NumberFormat.NegativeInfinitySymbol | String | The NegativeInfinitySymbol member of the String Type in the NumberFormatInfo Type is a string that represents the symbol used to denote negative infinity in numeric formatting. In the context of an EHR software, it is used to handle special cases where a value is considered negative infinity, such as in calculations or displaying specific data to healthcare professionals. |
| msgInfoDT.Locale.NumberFormat.NegativeSign           | String | The NegativeSign member of the String Type in the NumberFormatInfo Type is used to specify the symbol that represents a negative value in numeric formats. It is used in the context of formatting and displaying numbers in a user-friendly way within the EHR software.  |

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| msgInfoDT.Locale.NumberFormat.NumberDecimalDigits     | Int32  | The NumberDecimalDigits member of Int32 Type in NumberFormatInfo is used to specify the number of decimal places to be displayed when formatting numeric values as strings. It determines the precision of the decimal portion of the number. In the context of an EHR software, it may be used to control the display of numerical values such as lab results or medication dosages. |
| msgInfoDT.Locale.NumberFormat.NumberDecimalSeparator  | String | The NumberDecimalSeparator member of the String Type in the NumberFormatInfo Type is a property that represents the character or string used to separate the decimal part of a number in a formatted string.  |
| msgInfoDT.Locale.NumberFormat.NumberGroupSeparator    | String | The NumberGroupSeparator member of the NumberFormatInfo Type is a string that represents the character or string used to separate groups of digits in a formatted number. It is used in an EHR software to ensure consistent and readable formatting of numbers, such as currency or patient measurements, according to standard conventions.   |
| msgInfoDT.Locale.NumberFormat.CurrencyPositivePattern | Int32  | The CurrencyPositivePattern member of the Int32 Type  |

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|  |        | in the NumberFormatInfo Type represents the formatting pattern for positive currency values. It is used in the EHR software to determine how positive currency values should be displayed and formatted in the user interface.  |
| msgInfoDT.Locale.NumberFormat.PositiveInfinitySymbol | String | The PositiveInfinitySymbol member of the String Type in the NumberFormatInfo Type is a string that represents the symbol used to denote positive infinity in numeric representations. In the context of an EHR software, it is used to handle and display infinite values in calculations or measurements, ensuring accurate representation and interpretation of data. |
| msgInfoDT.Locale.NumberFormat.PositiveSign           | String | The PositiveSign member of the String Type in the NumberFormatInfo Type is used to represent the symbol that indicates a positive value in numeric formats.   |
| msgInfoDT.Locale.NumberFormat.PercentDecimalDigits   | Int32  | The PercentDecimalDigits member of Int32 Type in the NumberFormatInfo Type represents the number of decimal digits to display when formatting a percent value. It is used in EHR software to control the precision of percentage  |

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|   |        | values displayed to users.   |
| msgInfoDT.Locale.NumberFormat.PercentDecimalSeparator | String | The PercentDecimalSeparator member of the String Type in the NumberFormatInfo Type represents the character used to separate the decimal portion of a percent value. In the context of an EHR software, it is used to format percentages and ensure consistency in displaying and parsing percent values.  |
| msgInfoDT.Locale.NumberFormat.PercentGroupSeparator   | String | The PercentGroupSeparator member of the String Type, which is a member of the NumberFormatInfo Type, is a string that represents the character or string used to separate groups of digits in a formatted percentage value. It is used in the context of the EHR software to ensure consistent and visually appealing display of percentage values to users. |
| msgInfoDT.Locale.NumberFormat.PercentSymbol           | String | The PercentSymbol member of String Type in the NumberFormatInfo Type is used to represent the symbol used for percentages in the EHR software.   |
| msgInfoDT.Locale.NumberFormat.PerMilleSymbol          | String | The PerMilleSymbol member of the String Type in the NumberFormatInfo Type is a string that   |

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|   |             | represents the symbol used to denote per mille (per thousand) in numeric formatting. In the context of an EHR software, it is used to format numeric values such as laboratory test results or medication dosages that are measured in parts per thousand.  |
| msgInfoDT.Locale.NumberFormat.NativeDigits      | String[]    | The NativeDigits member of the String[] type in the NumberFormatInfo class is used to store the native digit symbols for a specific culture or region. These symbols are used for displaying numbers in their native format, such as using Chinese characters for digits in Chinese culture or Arabic numerals in Western culture. This allows the EHR software to correctly format and display numbers according to the user's cultural preferences. |
| msgInfoDT.Locale.NumberFormat.NativeDigits.     | String      | The member of String Type, which is a member of the String[] Type, is used to store an array of multiple strings. It could potentially be used to store multiple values related to a specific data field or category in the EHR software.   |
| msgInfoDT.Locale.NumberFormat.DigitSubstitution | DigitShapes | The DigitSubstitution member of the DigitShapes Type in the NumberFormatInfo Type is  |

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|   |             | used to specify the method of substituting digits in different cultures or languages. It could be used to determine how numbers are displayed or formatted in the electronic health record (EHR) software, based on the cultural conventions of the user's language or country. |
| msgInfoDT.Locale.NumberFormat.DigitSubstitution.value_          | Int32       | The value__ member of the Int32 Type in the DigitShapes Type is used to represent the numeric value associated with the specific digit shape option in the EHR software.  |
| msgInfoDT.Locale.NumberFormat.DigitSubstitution.Context         | DigitShapes | The Context member of the DigitShapes Type is used to specify the context in which digit shapes should be displayed or interpreted.   |
| msgInfoDT.Locale.NumberFormat.DigitSubstitution.None            | DigitShapes | The None member of the DigitShapes Type is used in the context of an EHR software to indicate that no specific digit shape or formatting is required or used.   |
| msgInfoDT.Locale.NumberFormat.DigitSubstitution.Native National | DigitShapes | The NativeNational member of the DigitShapes Type is used to determine the shape of digits in a native national script. It specifies that the digit shapes should be displayed in the native national script when rendering text in an electronic health record                 |

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|  |                    | (EHR) software.   |
| msgInfoDT.Locale.DateTimeFormat              | DateTimeFormatInfo | The DateTimeFormat member of the DateTimeFormatInfo Type in the CultureInfo Type is used to define the format of date and time values in a specific culture. It includes properties such as the format patterns for short date, long date, short time, and long time, as well as the separators used in date and time representations. It also includes arrays of the names of days of the week and months, both in their full and abbreviated forms. This member is used to ensure consistent formatting and parsing of date and time values within the EHR software, based on the cultural preferences of the user. |
| msgInfoDT.Locale.DateTimeFormat.AMDesignator | String             | The AMDesignator member of the String Type in the DateTimeFormatInfo Type is used to store the string representation of the designator used for the AM (ante meridiem) time period.   |
| msgInfoDT.Locale.DateTimeFormat.Calendar     | Calendar           | The Calendar member of the Calendar Type in the DateTimeFormatInfo Type specifies the calendar system to be used for date and time calculations and representations. It determines how dates and  |

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|  |        | times are formatted and parsed in the EHR software, taking into account factors such as the current era and the maximum two-digit year.   |
| msgInfoDT.Locale.DateTimeFormat.Calendar.TwoDigitYearMax | Int32  | The TwoDigitYearMax member of the Int32 Type within the Calendar Type is used to determine the maximum value for a two-digit year representation. It sets the threshold for converting a two-digit year to a four-digit year in scenarios where the year part of a date or time value is represented with only two digits. As this member is used in an EHR software, it is utilized to ensure accurate and consistent handling of date and time information for patient records. |
| msgInfoDT.Locale.DateTimeFormat.Calendar.CurrentEra      | Int32  | The CurrentEra member of the Int32 Type is a numeric value that represents the current era in the calendar system being used by the EHR software. It is used to track and identify the era in which a specific date or time event occurs.   |
| msgInfoDT.Locale.DateTimeFormat.DateSeparator            | String | The DateSeparator member of the String Type in the DateTimeFormatInfo Type represents the character or string that is used to separate the components of a date in the specified format. It is  |



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|   |           | used in formatting and parsing operations to correctly display and interpret date values in the EHR software.  |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek        | DayOfWeek | The FirstDayOfWeek member of the DayOfWeek Type in the DateTimeFormatInfo Type represents the first day of the week in a calendar. In the context of an EHR software, it is used to determine the starting day of the week for patient appointments, scheduling, and other calendar-related functionalities. |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.value_ | Int32     | The value__ member of the Int32 Type in the DayOfWeek Type represents the underlying numeric value of the day of the week, ranging from 0 to 6. It is used to store and retrieve the numeric representation of a specific day of the week in EHR software.   |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Sunday | DayOfWeek | The Sunday member of the DayOfWeek Type represents the day of the week that is specifically associated with Sunday. It is used in conjunction with an EHR software to track and categorize events, appointments, or data related to activities that occur on Sundays.  |

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| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Monday    | DayOfWeek | The Monday member of the DayOfWeek Type is a constant that represents the day of the week "Monday". It is used in conjunction with an EHR software to store and retrieve information related to appointments, schedules, and other time-based data that is specific to Mondays.   |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Tuesday   | DayOfWeek | The Tuesday member of the DayOfWeek Type represents the day of the week that is designated as Tuesday. It is used in conjunction with an EHR software to track and manage appointments, scheduling, and other time-related functions for patients and healthcare providers.   |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Wednesday | DayOfWeek | The Wednesday member of the DayOfWeek Type is a specific constant that represents the day of the week as Wednesday. It is used in conjunction with an EHR software to identify and reference Wednesdays when processing or displaying data related to scheduling appointments, organizing patient records, or generating reports. |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Thursday  | DayOfWeek | The Thursday member of the DayOfWeek Type is a specific day of the week that represents Thursday. It is used to track and   |

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|  |                  | identify appointments, events, or other occurrences that are scheduled or associated with Thursdays in an EHR software.  |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Friday    | DayOfWeek        | The Friday member of the DayOfWeek Type is a constant representing the day of the week as Friday. It is used in conjunction with an EHR software to store or reference the specific day of the week as Friday in various functions or calculations.  |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Saturday  | DayOfWeek        | The Saturday member of the DayOfWeek Type is a specific day of the week that represents Saturday. It is used to categorize and identify the day of the week in the context of an EHR software, which may require tracking and organizing patient data based on different days of the week. |
| msgInfoDT.Locale.DateTimeFormat.CalendarWeekRule         | CalendarWeekRule | The CalendarWeekRule member of the CalendarWeekRule enum in the DateTimeFormatInfo type is used to determine how the first week of the year is determined in a calendar system.  |
| msgInfoDT.Locale.DateTimeFormat.CalendarWeekRule.value__ | Int32            | The value__ member of the Int32 Type in the CalendarWeekRule Type represents the underlying value of the enumeration   |

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|   |                         | <p>member. It is used to store the numeric value associated with the chosen week rule, which determines how the first week of the year is determined in a calendar system.</p>  |
| <p>msgInfoDT.Locale.DateTimeFormat.CalendarWeekRule.FirstDay</p>      | <p>CalendarWeekRule</p> | <p>The FirstDay member of the CalendarWeekRule Type is used to specify that the first calendar week of the year should start on the first day of the year, regardless of which day of the week it falls on. This is used in conjunction with an EHR software to determine the start and end dates of each calendar week in order to organize and display data in a weekly format.</p>   |
| <p>msgInfoDT.Locale.DateTimeFormat.CalendarWeekRule.FirstFullWeek</p> | <p>CalendarWeekRule</p> | <p>The FirstFullWeek member of the CalendarWeekRule Type is used to define the rule for determining the first full week of the year in a calendar system. It ensures that the first week of the year includes seven full days, regardless of which day the year starts on. In the context of an EHR software, this rule may be used to determine the start and end dates of a patient's visit or treatment week, ensuring consistent calculation and reporting of calendar weeks across different systems and</p> |

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|   |                  | implementations.  |
| msgInfoDT.Locale.DateTimeFormat.CalendarWeekRule.FirstFourDayWeek | CalendarWeekRule | The FirstFourDayWeek member of the CalendarWeekRule Type is used to specify that a calendar week should start on the first day of the week and consider as a full week any week that has at least four days in it. This is commonly used in EHR software to determine the start of a week and calculate week-based statistics or reporting.   |
| msgInfoDT.Locale.DateTimeFormat.FullDateTimePattern               | String           | The FullDateTimePattern member of the String Type in the DateTimeFormatInfo Type is a string that represents the complete format pattern for displaying a date and time value. It specifies the order and format of the date and time components, including the day, month, year, hour, minute, and second. In an EHR software, it is used to determine the format in which date and time values are displayed to the user. |
| msgInfoDT.Locale.DateTimeFormat.LongDatePattern                   | String           | The LongDatePattern member of the String type in the DateTimeFormatInfo class is a property that defines the format for displaying the date in long format. It specifies the pattern to use when converting a DateTime value to its string  |

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|   |        | representation in a long date format. This format is typically used to display the full date including the day, month, and year in a human-readable format. In the context of an EHR software, this member is used to format and display patient visit dates in a readable format for healthcare providers.  |
| msgInfoDT.Locale.DateTimeFormat.LongTimePattern | String | The LongTimePattern member of String Type in the DateTimeFormatInfo Type represents the pattern used to display the time in a long format. It is used in the electronic health record (EHR) software to format and display the time portion of a datetime value in a user-friendly and standardized manner.  |
| msgInfoDT.Locale.DateTimeFormat.MonthDayPattern | String | The MonthDayPattern member of the String Type in the DateTimeFormatInfo Type is a property that represents the pattern used to format or parse the month and day of the month in a date value. It provides the specific format of displaying the month and day portion of a date, such as "MM/dd" or "dd/MM". In an EHR software, this member is used to ensure consistency and accuracy in displaying and parsing the month and |

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|  |        | day information for patient records and appointments.   |
| msgInfoDT.Locale.DateTimeFormat.PMDesignator     | String | The PMDesignator member of the DateTimeFormatInfo Type is a string that represents the designation for the post-meridiem (PM) period in a 12-hour time format, typically used in electronic health record (EHR) software.   |
| msgInfoDT.Locale.DateTimeFormat.ShortDatePattern | String | The ShortDatePattern member of the String Type in the DateTimeFormatInfo Type represents the pattern used to format short date values. It specifies the order and format of the day, month, and year components in a date string. In the context of an EHR software, it is used to display and input dates in a concise and easily understandable format for users. |
| msgInfoDT.Locale.DateTimeFormat.ShortTimePattern | String | The ShortTimePattern member of the String Type in the DateTimeFormatInfo Type represents the format used to display the short time representation in the EHR software.  |
| msgInfoDT.Locale.DateTimeFormat.TimeSeparator    | String | The TimeSeparator member of the DateTimeFormatInfo Type is a string that represents the separator used between the hours, minutes, and seconds in a   |

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|   |          | time value. It is used to format and parse time values in a specific culture or language. In the context of an EHR software, it would be used to ensure that time values are displayed and interpreted correctly according to the cultural and language preferences of the user.   |
| msgInfoDT.Locale.DateTimeFormat.YearMonthPattern    | String   | The YearMonthPattern member of the DateTimeFormatInfo Type in an EHR software is a string that defines the format used to display and parse a date and time value in the format of year and month. It specifies the order and separators used for the year and month values, allowing for localization and customization of the display and parsing of dates.              |
| msgInfoDT.Locale.DateTimeFormat.AbbreviatedDayNames | String[] | The AbbreviatedDayNames member of String[] Type in the DateTimeFormatInfo Type is a property that stores an array of abbreviated day names. It is used to provide the abbreviated names of the days of the week, such as "Sun" for Sunday and "Mon" for Monday. This property is used in the EHR software to display or format dates in a user-friendly way, ensuring that |



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|   |          | the abbreviated day names align with the user's cultural or regional conventions.   |
| msgInfoDT.Locale.DateTimeFormat.ShortestDayNames      | String[] | The ShortestDayNames member of the String[] Type in the DateTimeFormatInfo Type is an array that contains the abbreviated names of the days of the week. It is used for displaying the abbreviated day names in the user interface of the EHR software.   |
| msgInfoDT.Locale.DateTimeFormat.DayNames              | String[] | The DayNames member of String[] Type in the DateTimeFormatInfo Type represents the names of the days of the week. It is used for formatting and displaying dates and times in the EHR software, allowing users to see and select the names of the days of the week in the desired language or format. |
| msgInfoDT.Locale.DateTimeFormat.AbbreviatedMonthNames | String[] | The AbbreviatedMonthNames member of the String[] Type in the DateTimeFormatInfo Type is used to store an array of abbreviated month names. It is used to display or retrieve abbreviated month names in a specific format for date and time representations within the EHR software.                  |

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| msgInfoDT.Locale.DateTimeFormat.MonthNames                    | String[] | The MonthNames member of the String[] Type in the DateTimeFormatInfo Type represents the names of the months of the year. It is used to provide the localized names of the months in the EHR software for displaying and formatting dates.   |
| msgInfoDT.Locale.DateTimeFormat.AbbreviatedMonthGenitiveNames | String[] | The AbbreviatedMonthGenitiveNames member of the String[] Type in the DateTimeFormatInfo represents an array of abbreviated month names in the genitive form. This member is used to display abbreviated month names in a specific format that is commonly used in the EHR software, such as "Jan", "Feb", "Mar", etc. The genitive form is often used when indicating possession or relationship, and may be used in certain date formats within the EHR software. |
| msgInfoDT.Locale.DateTimeFormat.MonthGenitiveNames            | String[] | The MonthGenitiveNames member of the String[] Type in the DateTimeFormatInfo Type is an array that stores the genitive form of the month names. The genitive form is commonly used in EHR software for displaying date and time information in a format that includes the possessive form of the   |

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|                           |              | <p>month name. For example, instead of "January," the genitive form would be "January's" or "of January." This member is used to provide accurate and appropriate formatting of dates and times in the EHR software.</p>  |
| msgInfoDT.MinimumCapacity | Int32        | <p>The MinimumCapacity member of the Int32 Type in the DataTable is used to set the initial capacity of the DataTable. It specifies the minimum number of rows that the DataTable can initially hold, providing an initial memory allocation for efficiency in order to prevent frequent resizing of the DataTable.</p>   |
| msgInfoDT.PrimaryKey      | DataColumn[] | <p>The PrimaryKey member of the DataColumn[] Type in the DataTable Type is used to define the primary key columns for the DataTable.</p>  |
| msgInfoDT.PrimaryKey.     | DataColumn   | <p>The DataColumn member of the DataColumn[] type is a class that represents a single column within a DataTable. It contains properties that define various attributes of the column, such as data type, column name, and whether null values are allowed. It is used to define the structure and properties of the columns in the DataTable, which holds the data for a specific</p> |

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|   |         | table in the EHR software.   |
| msgInfoDT.PrimaryKey..AllowDBNull       | Boolean | The AllowDBNull member of the Boolean Type in the DataColumn Type indicates whether a column in a DataTable allows null values or not. It is used in an EHR software to define the nullability constraint for a column in the data table.  |
| msgInfoDT.PrimaryKey..AutoIncrement     | Boolean | The AutoIncrement member of the Boolean Type in the DataColumn Type is used to determine whether a column in a DataTable should automatically generate sequential values when new rows are added.  |
| msgInfoDT.PrimaryKey..AutoIncrementSeed | Int64   | The AutoIncrementSeed member of the Int64 data type in the DataColumn class is a value that determines the starting point for the auto-incrementing feature of the column. It is used in an EHR software to ensure that each new record in the column is assigned a unique and increasing value, starting from the specified seed value. |
| msgInfoDT.PrimaryKey..AutoIncrementStep | Int64   | The AutoIncrementStep member of the Int64 type in the DataColumn class is used to specify the increment value for the auto-increment feature of a column in a database   |

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|                                  |        | table. It determines the amount by which the column's value should be incremented for each new record inserted into the table.   |
| msgInfoDT.PrimaryKey..Caption    | String | The Caption member of the String Type in the DataColumn class is used to store the display name or label for the column in the user interface of the EHR software.   |
| msgInfoDT.PrimaryKey..ColumnName | String | The ColumnName member of String Type in the DataColumn class is a property that represents the name of the column in a DataTable. It is used to uniquely identify and access the column when working with the data in the DataTable.                             |
| msgInfoDT.PrimaryKey..Prefix     | String | The Prefix member of the String Type in the DataColumn class is used to store an optional prefix for the column name. This prefix may be used to differentiate columns with the same name but belonging to different tables or datasets within the EHR software. |
| msgInfoDT.PrimaryKey..DataType   | Type   | The DataType member of the DataColumn type in the EHR software is used to specify the data type of the column in a DataTable. It determines the type of data that can be stored in   |

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|  |        | the column, such as string, integer, boolean, or date.   |
| msgInfoDT.PrimaryKey..DataType.Missing     | Object | The missing member of the OrderGroup Type is the xml column in the order_groups table. It is used to store the serialized data of an instance of the OrderGroup Type in XML format, allowing for easy storage and retrieval of order group information within the EHR software.  |
| msgInfoDT.PrimaryKey..DataType.Delimiter   | Char   | The "Delimiter" member of the Char Type is used to specify a character that separates or delimits different values within a data field. It is used in the context of data export from an EHR software to indicate how data elements should be separated in a file or message format, allowing for easier parsing and interpretation of the data. |
| msgInfoDT.PrimaryKey..DataType.EmptyTypes  | Type[] | The EmptyTypes member of the Type[] Type is an empty array that is used to indicate the absence of any types. It is used in the context of the EHR software to handle situations where no specific types are required or present, providing a default value for a Type[] parameter or return value.  |
| msgInfoDT.PrimaryKey..DataType.EmptyTypes. | Type   | The member "msgInfoDT" in the "OrderGroup" type is   |

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|  |                 | <p>a DataTable that stores information related to the order message, such as the status, timestamps, and any associated information. It is used to organize and retrieve various details about the order message within the EHR software.</p>  |
| msgInfoDT.PrimaryKey..DateTimeMode         | DataSetDateTime | <p>The DateTimeMode member of the DataSetDateTime type in the DataColumn class is used to specify the DateTime mode for a column in a dataset. It indicates how the DateTime values in the column should be interpreted, such as in the local time zone, as UTC, or in an unspecified time zone. In the context of an EHR software, this member is used to ensure consistent handling and interpretation of DateTime values across different systems and time zones.</p> |
| msgInfoDT.PrimaryKey..DateTimeMode.value__ | Int32           | <p>The value__ member of the Int32 Type in the DataSetDateTime Type represents the numeric value associated with a specific DateTime value in the dataset. It is used to specify the type of DateTime, such as Local, Unspecified, UnspecifiedLocal, or Utc, which is relevant for</p>   |

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|   |                 | maintaining the consistency and accuracy of date and time information in an EHR software system.  |
| msgInfoDT.PrimaryKey..DateTimeMode.Local            | DataSetDateTime | The Local member in the DataSetDateTime Type refers to a specific date and time value that is relative to the local time zone of the EHR software. It is used to handle and represent date and time values in a way that is consistent with the time zone settings of the software and the location where it is being used. |
| msgInfoDT.PrimaryKey..DateTimeMode.Unspecified      | DataSetDateTime | The Unspecified member of the DataSetDateTime Type is used to indicate that the DateTime value does not have any specific time zone information associated with it. It is used when the DateTime value is not intended to be interpreted as a specific point in time relative to a specific time zone.                      |
| msgInfoDT.PrimaryKey..DateTimeMode.UnspecifiedLocal | DataSetDateTime | The UnspecifiedLocal member of the DataSetDateTime Type is used to represent a datetime value that is unspecified in terms of its time zone but is assumed to be in the local time zone of the EHR software system.   |



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| msgInfoDT.PrimaryKey..DateTimeMode.Utc | DataSetDateTime | The Utc member of the DataSetDateTime type is used to represent a DateTime value in Coordinated Universal Time (UTC) format. It indicates that the DateTime value is referenced to the UTC time zone, which is a standard and consistent time measurement used in the EHR software.   |
| msgInfoDT.PrimaryKey..DefaultValue     | Object          | The DefaultValue member of the Object Type in the DataColumn is used to specify the default value for a column in a DataTable.  |
| msgInfoDT.PrimaryKey..Expression       | String          | The Expression member of the DataColumn Type is used to define an expression that calculates the value for the column based on the values of other columns in the DataTable.  |
| msgInfoDT.PrimaryKey..MaxLength        | Int32           | The MaxLength member of the Int32 Type in the DataColumn class is used to specify the maximum length of a string value that can be stored in the corresponding column of a DataTable. It is used in EHR software to define the maximum number of characters that can be entered or stored in a specific column of patient data. |

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| msgInfoDT.PrimaryKey..Namespace             | String      | The Namespace member of the String Type in the DataColumn class is used to specify the namespace of the DataColumn.  |
| msgInfoDT.PrimaryKey..ReadOnly              | Boolean     | The ReadOnly member of the Boolean Type in the DataColumn class is used to indicate whether a column in a DataTable is read-only or not. If set to true, it means that the column cannot be modified, ensuring that the data remains unchanged. This is used in an EHR software to enforce data integrity and prevent accidental or unauthorized modifications to essential information. |
| msgInfoDT.PrimaryKey..Unique                | Boolean     | The Unique member of the Boolean Type in the DataColumn is used to indicate whether the values in the column must be unique within the dataset.  |
| msgInfoDT.PrimaryKey..ColumnMapping         | MappingType | The ColumnMapping member of the MappingType enumeration in the DataColumn type is used to determine how the column is mapped to the corresponding XML element or attribute when the data is exported from an EHR software.   |
| msgInfoDT.PrimaryKey..ColumnMapping.value__ | Int32       | The value__ member of the Int32 Type in the MappingType Type   |

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|   |             | represents the underlying integer value of the MappingType enumeration. It is used for storing and comparing the different mapping types defined within the EHR software.  |
| msgInfoDT.PrimaryKey..ColumnMapping.Element       | MappingType | The Element member of the MappingType enum is used to represent an element in an electronic health record (EHR) software. It is used to map and define specific data elements within HL7 messages for processing and storage in the EHR system.  |
| msgInfoDT.PrimaryKey..ColumnMapping.Attribute     | MappingType | The Attribute member of the MappingType Type is used to define a mapping type that represents an attribute in an XML document. It is used with the EHR software to define and handle attributes within the serialized XML data of the OrderGroup object.                                       |
| msgInfoDT.PrimaryKey..ColumnMapping.SimpleContent | MappingType | The SimpleContent member of the MappingType type is used to specify a simple content mapping, which defines the mapping between a single value or attribute in the EHR software and a corresponding value in the serialized data. It is used when there is a direct one-to-one mapping between |

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|--|-------------|--|
|  |             | the EHR data and the serialized data for a specific element or attribute.  |
| msgInfoDT.PrimaryKey..ColumnMapping.Hidden | MappingType | The Hidden member of the MappingType Type is used to indicate that a particular mapping in the EHR software is hidden and not meant to be displayed to users.  |
| msgInfoDT.PrimaryKey..Site                 | ISite       | The Site member of the ISite type is used to store the name of the site or location where the DataColumn is being used or referenced.  |
| msgInfoDT.PrimaryKey..Site.Name            | String      | The Name member of String Type in the ISite Type is used to store the name of a site or location within the EHR software system.   |
| msgInfoDT.TableName                        | String      | The TableName member of String Type in the DataTable class represents the name of the DataTable instance. It is used to uniquely identify the table within the dataset and is typically used for referencing and manipulating data within the table. In the context of an EHR software, the TableName member could be used to store the name of the table that holds patient demographic information, medical records, or other relevant |

|                     |           |  |
|---------------------|-----------|--|
|                     |           | data.  |
| msgInfoDT.Namespace | String    | The Namespace member of the String Type in the DataTable is used to specify the XML namespace for the DataTable when it is serialized or deserialized.   |
| msgInfoDT.Prefix    | String    | The Prefix member of the String Type in the DataTable is used to specify a prefix for the table's XML representation.  |
| msgInfoDT.Site      | ISite     | The Site member of the ISite Type in the DataTable Type is a property that represents the name of the site in which the data table is being used. It is used in the context of an Electronic Health Record (EHR) software to identify the specific site or location where the patient data is being managed or accessed. |
| patDemographicsDT   | DataTable | The patDemographicsDT member of the DataTable Type is used to store and manage patient demographic information, such as name, age, gender, contact details, and other relevant personal information.   |
| patVisitDT          | DataTable | The patVisitDT member of the DataTable Type is used to store information related to patient visits, such as the date and time of the visit, the location or  |

|  |  |   |
|--|--|---|
|  |  | facility where the visit took place, and any relevant visit details or notes. |
|--|--|---|

## Result Group - "result\_groups" CSV Export

The result\_groups table contains information about groups of results within an EHR software. These groups may be associated with a specific patient, as indicated by the 'acctid' column, which stores the unique patient ID. The table also includes columns for order numbers, lab information, and status lists, suggesting that it may be used to track and manage tests or procedures performed on patients. Additionally, the table has columns for XML data, indicating that it may store structured information related to the results. Overall, the result\_groups table appears to be used to organize and store information about groups of results in an EHR system.

| Column Name            | Data Type  | Description   | Extraction Method |
|------------------------|--|---|-------------------|
| id                     | bigint   | The id column is a unique identifier for each row in the result_groups table.   | CSV               |
| acctid                 | int  | The acctid column is the unique patient ID from the 'patients' table.   | CSV               |
| insert_guid            | varchar  | The insert_guid column is a unique identifier that is automatically generated when a row is inserted into the result_groups table.  | CSV               |
| created_datetime       | datetime<br>NOT NULL<br>default<br>'0000-00-00 00:00:00' | The created_datetime column stores the exact date and time when each record in the result_groups table was created.                 | CSV               |
| last_modified_datetime | datetime<br>NOT NULL<br>default<br>'0000-00-00 00:00:00' | The last_modified_datetime column stores the date and time when the record in the result_groups table was last modified.            | CSV               |
| order_num              | varchar  | The order_num column is a string that represents the order number associated with a result group.                                   | CSV               |
| placer_order_num       | varchar  | The placer_order_num column stores an alphanumeric identifier that corresponds to the order number assigned by the requesting party | CSV               |

|                  |         |   |                              |
|------------------|---------|---|------------------------------|
|                  |         | or system for a particular result group.  |                              |
| filler_order_num | varchar | The filler_order_num column is a string that stores the order number assigned by the filler system.   | CSV                          |
| lab              | int     | The lab column represents the indicator of whether the result group is associated with a lab or not. It is represented by an integer value, where 0 indicates that the result group is not associated with a lab, and any non-zero value indicates that it is associated with a specific lab. | CSV                          |
| status_list      | text    | The status_list column stores a list of status values related to a result group.  | CSV                          |
| assoc_info_list  | text    | The assoc_info_list column contains a list of associated information related to the result group.   | CSV                          |
| item_info_list   | text    | The item_info_list column contains a list of information associated with each item in the result group.   | CSV                          |
| hidden           | tinyint | The hidden column indicates whether the result group is hidden or not.  | CSV                          |
| xml              | text    | The xml column stores XML data that is associated with a result group record.   | CSV + XML<br>Deserialization |



## ResultGroup Type

The ResultGroup type is used to store and manage information related to the results of medical tests or procedures conducted on a patient. It includes the HL7 message associated with the test, as well as various data tables containing information about the patient's demographics and visit details. The type is used within an EHR software system to handle the processing and display of test results in a standardized format. A ResultGroup is serialized as XML in the xml column in the result\_groups table.

| Member Name | Type        | Description  |
|-------------|-------------|--|
|             | ResultGroup | The member "hl7Msg" of the ResultGroup Type is a string that stores an HL7 message. It is used to store the HL7 message data related to a patient's results or medical information, which can be used for interoperability and exchange of healthcare data with other systems or healthcare providers. |
| hl7Msg      | String      | The hl7Msg member of the ResultGroup Type is a string that represents an HL7 message. It is used to store the HL7 message associated with the result group in an EHR software system.  |
| msgInfoDT   | DataTable   | The msgInfoDT member of the DataTable Type in the ResultGroup Type is used to store information related to the message details of a patient's health record, such as the date and time of the message,   |

|                                  |                     |  |
|----------------------------------|---------------------|--|
|                                  |                     | the sender and receiver, any message identifiers, and other relevant metadata.   |
| msgInfoDT.CaseSensitive          | Boolean             | The CaseSensitive member of the Boolean Type in the DataTable class specifies whether string comparisons performed by the DataTable should be case-sensitive or not. It determines whether uppercase and lowercase characters should be considered as distinct when comparing strings. In the context of an EHR software, this member could be used to ensure accurate matching and comparison of patient data or other information where case sensitivity is important. |
| msgInfoDT.RemotingFormat         | SerializationFormat | The RemotingFormat member of the SerializationFormat Type is used to specify the format in which the DataTable object should be serialized for remote communication, such as transferring data between different components or applications within an EHR system. It indicates whether the DataTable should be serialized as XML or binary data.   |
| msgInfoDT.RemotingFormat.value__ | Int32               | The value__ member of Int32 Type is an internally used member that stores  |

|                                 |                     |   |
|---------------------------------|---------------------|---|
|                                 |                     | the underlying value of an enumeration member. In the context of SerializationFormat Type, it represents the value associated with an enum member representing the format in which the data is serialized (either Xml or Binary) for exporting data in an EHR software. |
| msgInfoDT.RemotingFormat.Xml    | SerializationFormat | The Xml member of the SerializationFormat Type is used to store serialized XML data. It is used in the context of an EHR software to serialize and store Result Group information in a structured format.   |
| msgInfoDT.RemotingFormat.Binary | SerializationFormat | The Binary member of the SerializationFormat enum is used to serialize data into a binary format for storage or transmission in an EHR software.  |
| msgInfoDT.DisplayExpression     | String              | The DisplayExpression member of the String Type in the DataTable class is used to specify the expression that is used to display the data in a user interface element, such as a grid or table.   |
| msgInfoDT.Locale                | CultureInfo         | The Locale member of the CultureInfo type in DataTable is used to define the specific cultural and regional settings for the data in the DataTable. It includes information such as number formatting,  |

|  |             |  |
|--|-------------|--|
|  |             | currency symbols, date and time formats, and language preferences.   |
| msgInfoDT.Locale.CurrentCulture              | CultureInfo | The CurrentCulture member of the CultureInfo Type in an EHR software is used to represent the culture or locale settings that determine how data such as numbers, dates, and currency are formatted and displayed in the user interface. It allows the software to adapt to the specific language, formatting conventions, and regional preferences of the user. |
| msgInfoDT.Locale.CurrentUICulture            | CultureInfo | The CurrentUICulture member of the CultureInfo Type in an EHR software is used to determine the language and cultural settings for the user interface of the software. It specifies the language and region-specific formatting rules for displaying dates, times, numbers, and currency in the user interface.  |
| msgInfoDT.Locale.DefaultThreadCurrentCulture | CultureInfo | The DefaultThreadCurrentCulture member of the CultureInfo Type in an EHR software is used to represent the default culture settings for the current thread. It determines the formatting and display of numeric and date/time values for the   |

|   |                  |   |
|---|------------------|---|
|   |                  | current thread.   |
| msgInfoDT.Locale.DefaultThreadCurrentUICulture      | CultureInfo      | The DefaultThreadCurrentUICulture member of the CultureInfo Type is a property that represents the default culture for the user interface (UI) thread. It is used in an EHR software to determine the default language and regional settings for displaying UI elements such as labels, menus, and user messages to the user. |
| msgInfoDT.Locale.NumberFormat                       | NumberFormatInfo | The NumberFormat member of NumberFormatInfo type is used to define the formatting options for numeric values, such as decimal and thousand separators, currency symbols, and negative/positive patterns. It provides the settings for how numbers are displayed and interpreted in the EHR software.                          |
| msgInfoDT.Locale.NumberFormat.CurrencyDecimalDigits | Int32            | The CurrencyDecimalDigits member of the Int32 Type in the NumberFormatInfo Type represents the number of decimal places to be displayed for currency values. It is used to define the decimal precision for currency formatting in an EHR software.   |

|  |         |  |
|--|---------|--|
| msgInfoDT.Locale.NumberFormat.CurrencyDecimalSeparator | String  | The CurrencyDecimalSeparator member of the String Type in the NumberFormatInfo Type represents the separator character used to separate the decimal portion of a currency value. It is used in formatting and parsing currency values in the context of an EHR software.   |
| msgInfoDT.Locale.NumberFormat.CurrencyGroupSizes       | Int32[] | The CurrencyGroupSizes member of the Int32[] Type is used to define the sizes of the groups used for grouping digits in currency formatting. The values in the array represent the number of digits in each group, from right to left. For example, if the CurrencyGroupSizes array is [3, 2], it means that the currency will be formatted with groups of 3 digits followed by groups of 2 digits. This allows for consistent and standardized formatting of currency values in different cultures and regions. |
| msgInfoDT.Locale.NumberFormat.CurrencyGroupSizes.      | Int32   | The member of Int32 Type within the Int32[] Type is used to store an array of integer values in an EHR software.   |
| msgInfoDT.Locale.NumberFormat.NumberGroupSizes         | Int32[] | The NumberGroupSizes member of the Int32[] type in the NumberFormatInfo class represents an array of   |

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|--|---------|--|
|  |         | integers that specifies the number of digits in each group for formatting numbers. It is used to define the grouping of digits in a number based on cultural or regional conventions.  |
| msgInfoDT.Locale.NumberFormat.PercentGroupSizes      | Int32[] | The PercentGroupSizes member of the Int32[] Type in the NumberFormatInfo Type is used to define the sizes of digit groups in a formatted percentage value. It specifies the number of digits in each group, starting from the rightmost digit.   |
| msgInfoDT.Locale.NumberFormat.CurrencyGroupSeparator | String  | The CurrencyGroupSeparator member of String Type in the NumberFormatInfo Type is used to specify the character that separates groups of digits in a currency value. It is used in formatting currency values in the EHR software.  |
| msgInfoDT.Locale.NumberFormat.CurrencySymbol         | String  | The CurrencySymbol member of String Type in the NumberFormatInfo Type is a property that represents the symbol or character used to denote the currency in a formatted string. It is specific to the culture or region in which the EHR software is being used and is used to display or format monetary values. |

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| msgInfoDT.Locale.NumberFormat.NaNSymbol               | String | The NaNSymbol member of String Type in the NumberFormatInfo Type is a representation of the symbol used to denote "Not-a-Number" or invalid numeric values in the formatting of numbers or currency. It is used in the formatting of numeric data within the EHR software, allowing for consistent representation of invalid or non-numeric values.                                |
| msgInfoDT.Locale.NumberFormat.CurrencyNegativePattern | Int32  | The CurrencyNegativePattern member of the Int32 Type in the NumberFormatInfo Type is used to specify the formatting pattern for negative currency values. It determines how the negative sign is displayed and positioned in relation to the currency symbol and value.  |
| msgInfoDT.Locale.NumberFormat.NumberNegativePattern   | Int32  | The NumberNegativePattern member of the Int32 Type is a property that represents the pattern used to format negative numeric values in the NumberFormatInfo Type. It defines the format in which the negative sign is displayed for negative numbers. In the context of an EHR software, it is used to format numeric values such as lab results or vital measurements for display |



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|--|--------|---|
|  |        | or printing purposes.   |
| msgInfoDT.Locale.NumberFormat.PercentPositivePattern | Int32  | The PercentPositivePattern member of the Int32 Type in the NumberFormatInfo Type represents the pattern for formatting positive percentage values. It is used in the context of EHR software to determine the specific pattern or format to use when displaying positive percentage values.   |
| msgInfoDT.Locale.NumberFormat.PercentNegativePattern | Int32  | The PercentNegativePattern member of the Int32 Type in the NumberFormatInfo is used to determine the formatting pattern for negative percent values.  |
| msgInfoDT.Locale.NumberFormat.NegativeInfinitySymbol | String | The NegativeInfinitySymbol member of the String Type in the NumberFormatInfo Type is a string that represents the symbol used to display negative infinity in a formatted numeric value. It is used in the EHR software to display special numeric values, such as negative infinity, in a human-readable format when presenting data to the users. |
| msgInfoDT.Locale.NumberFormat.NegativeSign           | String | The NegativeSign member of the String Type in the NumberFormatInfo Type is a property that represents the symbol used to denote negative numeric values. In the context of an EHR   |

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|  |        | software, it is used to display negative values in a standardized and localized format, according to the number formatting rules of the specific region or culture.  |
| msgInfoDT.Locale.NumberFormat.NumberDecimalDigits    | Int32  | The NumberDecimalDigits member of type Int32 in the NumberFormatInfo class is used to determine the number of decimal digits to display when formatting numeric values as a string in the specified number format.   |
| msgInfoDT.Locale.NumberFormat.NumberDecimalSeparator | String | The NumberDecimalSeparator member of the String Type in the NumberFormatInfo Type is used to specify the character or string that is used as the decimal separator in formatted numeric values. In the context of an EHR software, it is used to display and parse numeric values with the appropriate decimal separator symbol based on the locale or user preferences. |
| msgInfoDT.Locale.NumberFormat.NumberGroupSeparator   | String | The NumberGroupSeparator member of String Type in the NumberFormatInfo Type is a string that represents the character used to separate groups of digits in numeric values. It is used in formatting  |

|   |        |   |
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|   |        | <p>numbers to make them more readable by separating the digits into groups, typically every three digits, based on the specified separator. In the context of an EHR software, the NumberGroupSeparator member is used to format numeric values, such as currency or measurements, to align with the formatting conventions of the user's locale or region.</p> |
| msgInfoDT.Locale.NumberFormat.CurrencyPositivePattern | Int32  | <p>The CurrencyPositivePattern member of the Int32 Type in the NumberFormatInfo Type is used to determine the formatting pattern for positive currency values. It specifies the position and order of currency symbol, positive sign, and the number value in a formatted currency string.</p>  |
| msgInfoDT.Locale.NumberFormat.PositiveInfinitySymbol  | String | <p>The PositiveInfinitySymbol member of the String Type in the NumberFormatInfo Type is a string representation that indicates the positive infinity value in numeric formatting. It is used in the EHR software to display or handle infinite values in numerical calculations or data presentation.</p>   |
| msgInfoDT.Locale.NumberFormat.PositiveSign            | String | <p>The PositiveSign member of String Type in the NumberFormatInfo Type is</p>   |

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|---|--------|---|
|   |        | a string that represents the symbol for positive numbers in numerical formatting. It is used to indicate the positive value of a number in the EHR software.  |
| msgInfoDT.Locale.NumberFormat.PercentDecimalDigits    | Int32  | The PercentDecimalDigits member of type Int32 in the NumberFormatInfo class is used to specify the number of decimal places to display when formatting a percentage value.                                      |
| msgInfoDT.Locale.NumberFormat.PercentDecimalSeparator | String | The PercentDecimalSeparator member of the NumberFormatInfo Type in EHR software is a string that represents the character or sequence of characters used to separate the decimal portion of a percentage value. |
| msgInfoDT.Locale.NumberFormat.PercentGroupSeparator   | String | The PercentGroupSeparator member of the String Type in the NumberFormatInfo Type is used to specify the character or string that separates groups of digits in a percent value.                                 |
| msgInfoDT.Locale.NumberFormat.PercentSymbol           | String | The PercentSymbol member of the NumberFormatInfo type is a string that represents the symbol used to denote percentages in the EHR software.  |

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|---|-------------|---|
| msgInfoDT.Locale.NumberFormat.PerMilleSymbol    | String      | The PerMilleSymbol member of the NumberFormatInfo Type is a string that represents the symbol used to denote per mille (one thousandth) in numerical values. In the context of an EHR software, it is used for formatting and displaying numerical values with per mille symbols in patient records or reports.                                   |
| msgInfoDT.Locale.NumberFormat.NativeDigits      | String[]    | The NativeDigits member of the String[] Type in the NumberFormatInfo Type is used to store an array of strings that represent the characters used for the native digits in a specific culture or language. These native digits are typically used in formatting numeric values in a way that is familiar to speakers of that culture or language. |
| msgInfoDT.Locale.NumberFormat.NativeDigits.     | String      | The member of String Type in the String[] Type is used to store an array of strings, representing multiple values or attributes related to a specific entity or data object in the EHR software.  |
| msgInfoDT.Locale.NumberFormat.DigitSubstitution | DigitShapes | The DigitSubstitution member of the DigitShapes Type in the NumberFormatInfo Type is used to specify how digits are substituted in different cultural contexts within the EHR software.   |

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|--|-------------|--|
| msgInfoDT.Locale.NumberFormat.DigitSubstitution.value_<br>_        | Int32       | The value__ member of the Int32 Type in the DigitShapes enum represents the underlying integer value associated with each enum member. It is used to uniquely identify each enum member when working with integer values, such as when persisting or transmitting data. In the context of an EHR software, it is used for mapping and conversion purposes, ensuring consistent representation of digit shapes across different systems or platforms. |
| msgInfoDT.Locale.NumberFormat.DigitSubstitution.Context            | DigitShapes | The Context member of the DigitShapes Type is used to define the context or setting in which digit shapes are to be displayed or rendered in the EHR software.   |
| msgInfoDT.Locale.NumberFormat.DigitSubstitution.None               | DigitShapes | The None member of the DigitShapes Type is used to indicate that the digit shapes in the EHR software are not specified or modified.   |
| msgInfoDT.Locale.NumberFormat.DigitSubstitution.Native<br>National | DigitShapes | The NativeNational member of the DigitShapes Type is used in an EHR software to define the shape of Arabic numerals when they are used in the context of native national language.   |

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| msgInfoDT.Locale.DateTimeFormat                          | DateTimeFormatInfo | The DateTimeFormat member of DateTimeFormatInfo Type in CultureInfo is used to define the format of dates and times in the EHR software. It includes properties such as the date and time separators, the order of date components (e.g., day, month, year), and the formatting patterns for displaying dates and times.                                |
| msgInfoDT.Locale.DateTimeFormat.AMDesignator             | String             | The AMDesignator member of the String Type in the DateTimeFormatInfo Type represents the designator for the ante meridiem period (before noon) in a time format. In the context of an EHR software, it is used to format and display time information in a standardized and user-friendly way, indicating the period of the day as either "AM" or "PM". |
| msgInfoDT.Locale.DateTimeFormat.Calendar                 | Calendar           | The Calendar member of the Calendar Type in DateTimeFormatInfo is used to define the calendar system used for date calculations and representations in the EHR software.  |
| msgInfoDT.Locale.DateTimeFormat.Calendar.TwoDigitYearMax | Int32              | The TwoDigitYearMax member of Int32 Type is a property that represents the maximum value for a two-digit year   |

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|---|-----------|---|
|   |           | interpretation. In the context of an EHR software, it is used to determine the cutoff year for interpreting two-digit year values, ensuring accurate conversion and representation of date information.   |
| msgInfoDT.Locale.DateTimeFormat.Calendar.CurrentEra | Int32     | The CurrentEra member of the Int32 Type is a constant that represents the current era in a calendar. In the context of an EHR software, it is used to determine and track the current era for patient records and other time-dependent calculations.  |
| msgInfoDT.Locale.DateTimeFormat.DateSeparator       | String    | The DateSeparator member of the String Type in the DateTimeFormatInfo Type represents the separator character used to distinguish the parts of a date in a formatted date string. It is used to separate the day, month, and year components in a date format specific to the EHR software. |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek      | DayOfWeek | The FirstDayOfWeek member of the DayOfWeek Type in the DateTimeFormatInfo Type represents the first day of the week in a calendar system. In an EHR software, it is used to determine the starting day of the week for displaying calendar views, scheduling                                |



|  |           |   |
|--|-----------|---|
|  |           | appointments, and organizing weekly data.   |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.value__ | Int32     | The value__ member of the Int32 Type in the DayOfWeek Type is an integer value that represents the numerical value of a specific day of the week. It is used to store and retrieve the day of the week in the context of an electronic health record (EHR) software.            |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Sunday  | DayOfWeek | The Sunday member of the DayOfWeek Type is used to represent the day of the week as Sunday in an EHR software.  |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Monday  | DayOfWeek | The Monday member of the DayOfWeek Type represents Monday as a day of the week in the context of an EHR software. It is used to store or reference the specific day of the week as part of scheduling or organizing appointments, tasks, or other events within the EHR system. |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Tuesday | DayOfWeek | The Tuesday member of the DayOfWeek Type is a specific day of the week that represents Tuesday. It is commonly used in EHR software to store or retrieve information related to appointments, schedules, or events that occur on Tuesdays.                                      |

|  |           |   |
|--|-----------|---|
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Wednesday | DayOfWeek | The Wednesday member of the DayOfWeek Type represents the day of the week that is specifically Wednesday. It is used in conjunction with an EHR software to store and retrieve information related to appointments, schedules, or any other time-sensitive data that needs to be organized and referenced according to specific days of the week. |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Thursday  | DayOfWeek | The Thursday member of the DayOfWeek Type is a specific value representing the day Thursday in the context of an EHR software.  |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Friday    | DayOfWeek | The Friday member of the DayOfWeek Type represents the day of the week "Friday". It is used in the context of scheduling and organizing appointments and other events within an EHR software.   |
| msgInfoDT.Locale.DateTimeFormat.FirstDayOfWeek.Saturday  | DayOfWeek | The Saturday member of the DayOfWeek Type represents the day of the week known as Saturday. It is commonly used to specify the day of a week in the context of scheduling appointments, tracking patient visits, and organizing healthcare-related activities within an EHR software.   |

|   |                  |   |
|---|------------------|---|
| msgInfoDT.Locale.DateTimeFormat.CalendarWeekRule          | CalendarWeekRule | The CalendarWeekRule member of the CalendarWeekRule Type is used to determine the rule for determining the first week of the year in a calendar. It specifies whether the first week of the year is defined as the first week containing the first day of the year, the first week with a minimum number of days, or the first week with four or more days. In the context of an EHR software, it would be used to ensure consistent calculation and representation of weeks in date-related functionalities. |
| msgInfoDT.Locale.DateTimeFormat.CalendarWeekRule.value__  | Int32            | The value__ member of the Int32 Type in the CalendarWeekRule Type is an enum value that represents the specific calendar week rule. It is used to determine the rule for calculating the calendar week, such as whether the first day, first full week, or first four-day week is used as the starting point for the calendar week calculation.   |
| msgInfoDT.Locale.DateTimeFormat.CalendarWeekRule.FirstDay | CalendarWeekRule | The FirstDay member of the CalendarWeekRule Type specifies that the first week of the year starts on the first day of the year. It is used to determine the starting point of a calendar week within an EHR   |

|   |                  |  |
|---|------------------|--|
|   |                  | software, ensuring consistent calculation and presentation of week-based data.   |
| msgInfoDT.Locale.DateTimeFormat.CalendarWeekRule.FirstFullWeek    | CalendarWeekRule | The FirstFullWeek member of the CalendarWeekRule type is used to determine the starting point for the first full calendar week of the year in the EHR software.  |
| msgInfoDT.Locale.DateTimeFormat.CalendarWeekRule.FirstFourDayWeek | CalendarWeekRule | The FirstFourDayWeek member of the CalendarWeekRule Type is used to define the rule for determining the first week of the year in a calendar system. It specifies that the first week includes at least four days, regardless of which day of the week the year starts on. This member is used in the EHR software to correctly calculate and display calendar week information for patient appointments and scheduling. |
| msgInfoDT.Locale.DateTimeFormat.FullDateTimePattern               | String           | The FullDateTimePattern member of String Type in the DateTimeFormatInfo Type is a string that represents the complete date and time format. It specifies the format in which the date and time should be displayed, including the order of various components such as day, month, year, hours, minutes, and seconds. In the context of an EHR  |

|   |        |  |
|---|--------|--|
|   |        | software, it is used to format the date and time information to be displayed to the users in a user-friendly and standardized manner.  |
| msgInfoDT.Locale.DateTimeFormat.LongDatePattern | String | The LongDatePattern member of String Type in DateTimeFormatInfo represents the format for displaying the long date in a specific culture. It is used to format the date in a way that is appropriate for the culture or region in which the software is being used. The exact format of the LongDatePattern may vary depending on the culture settings, but it typically includes the full name of the day of the week, the month, and the day of the month. |
| msgInfoDT.Locale.DateTimeFormat.LongTimePattern | String | The LongTimePattern member of the String Type in the DateTimeFormatInfo Type represents the format used for displaying the long time value in the EHR software.  |
| msgInfoDT.Locale.DateTimeFormat.MonthDayPattern | String | The MonthDayPattern member of the DateTimeFormatInfo Type in an EHR software is a string that defines the format for displaying a date with only the month and day. It specifies the order and separators used for the month and day components in the date  |

|  |        |  |
|--|--------|--|
|  |        | format.  |
| msgInfoDT.Locale.DateTimeFormat.PMDesignator     | String | The PMDesignator member of the String Type in the DateTimeFormatInfo Type represents the string used to designate the Post Meridien (PM) period in a time format. It is used in EHR software to indicate the time periods from 12:00 PM to 11:59 PM.   |
| msgInfoDT.Locale.DateTimeFormat.ShortDatePattern | String | The ShortDatePattern member of the String Type in the DateTimeFormatInfo Type is a property that represents the format used to display a short date value. It is used to format the date string in a concise, easily readable format for displaying patient visit dates or other date-related information in the EHR software.                                 |
| msgInfoDT.Locale.DateTimeFormat.ShortTimePattern | String | The ShortTimePattern member of the DateTimeFormatInfo type is a string that represents the format of a short time string in a specific culture. It defines the pattern used to display the time in a concise format, typically without including seconds. This member is used in the EHR software to format and display time values in a user-friendly manner. |
| msgInfoDT.Locale.DateTimeFormat.TimeSeparator    | String | The TimeSeparator member of the String Type in the DateTimeFormatInfo  |

|   |          |  |
|---|----------|--|
|   |          | Type represents the separator character used to separate the hours, minutes, and seconds in a time representation. It is used in the formatting and parsing of time values in the EHR software.  |
| msgInfoDT.Locale.DateTimeFormat.YearMonthPattern    | String   | The YearMonthPattern member of the String type in the DateTimeFormatInfo class represents the format used to display the year and month in a date string. It is used to define the pattern for representing the year and month in a specific culture or locale. In an EHR software, it could be used to format and display the year and month information in various patient records or reports. |
| msgInfoDT.Locale.DateTimeFormat.AbbreviatedDayNames | String[] | The AbbreviatedDayNames member of the String[] Type in the DateTimeFormatInfo Type is a collection of abbreviated day names. These abbreviated day names are used to display or format dates in a shorter form, typically consisting of three-letter abbreviations, such as "Sun" for Sunday or "Mon" for Monday.  |
| msgInfoDT.Locale.DateTimeFormat.ShortestDayNames    | String[] | The 'ShortestDayNames' member of the 'String[]' type in the 'DateTimeFormatInfo' class is a property that contains an array of abbreviated day   |

|   |          |   |
|---|----------|---|
|   |          | names. It is used to provide a shortened form of the names of the days of the week in a specific culture or language. In the context of an EHR software, this property is used to display abbreviated day names in the user interface or to format dates in a concise manner.   |
| msgInfoDT.Locale.DateTimeFormat.DayNames              | String[] | The DayNames member of the String[] Type in the DateTimeFormatInfo Type is used to store the names of the days of the week. It provides an array of strings representing the full names of each day, such as "Sunday", "Monday", "Tuesday", etc. This member is used in the EHR software to display the names of the days of the week in various user interfaces or to perform date-related calculations involving the day of the week. |
| msgInfoDT.Locale.DateTimeFormat.AbbreviatedMonthNames | String[] | The AbbreviatedMonthNames member of String[] Type in the DateTimeFormatInfo Type is used to store the abbreviated names of the months. These abbreviated month names are commonly used in displaying dates in a formatted manner in the EHR software. It provides a standardized way to   |



|   |          |   |
|---|----------|---|
|   |          | represent the abbreviated month names across different cultures and languages.  |
| msgInfoDT.Locale.DateTimeFormat.MonthNames                    | String[] | The MonthNames member of String[] Type in the DateTimeFormatInfo class is used to store an array of the full names of the months in a specific culture or language. It is used to provide localized month names for formatting and parsing dates in the EHR software.   |
| msgInfoDT.Locale.DateTimeFormat.AbbreviatedMonthGenitiveNames | String[] | The AbbreviatedMonthGenitiveNames member of the String[] Type in the DateTimeFormatInfo Type is an array of abbreviated month names in the genitive form. This member is used in the EHR software to display or format dates in a specific language or cultural context, where the abbreviated month names need to be displayed in the genitive form, which is often used to indicate possession or relationship. |
| msgInfoDT.Locale.DateTimeFormat.MonthGenitiveNames            | String[] | The MonthGenitiveNames member of the String[] type in the DateTimeFormatInfo class represents the abbreviated or full names of the months in a genitive form. Genitive form refers to the grammatical case used to  |

|                                   |              |   |
|-----------------------------------|--------------|---|
|                                   |              | express possession or ownership. In the context of an EHR software, this member may be used to display or format dates in a way that indicates the possessive form of the month name.   |
| msgInfoDT.MinimumCapacity         | Int32        | The MinimumCapacity member of the Int32 Type in the DataTable is used to set the initial minimum capacity for the underlying data structure of the DataTable. It specifies the minimum number of elements that the data structure can hold without resizing.  |
| msgInfoDT.PrimaryKey              | DataColumn[] | The PrimaryKey member of the DataColumn[] Type in the DataTable Type is used to define one or more columns that uniquely identify each row in the DataTable.  |
| msgInfoDT.PrimaryKey.             | DataColumn   | The DataColumn member of the DataColumn[] type represents a column in a DataTable. It contains information about the properties and characteristics of the column, such as its name, data type, and constraints. It is used to define the structure and schema of the data stored in the DataTable. |
| msgInfoDT.PrimaryKey..AllowDBNull | Boolean      | The AllowDBNull member of the Boolean Type in the   |

|   |         |  |
|---|---------|--|
|   |         | DataColumn class is used to indicate whether a column in a DataTable allows null values.   |
| msgInfoDT.PrimaryKey..AutoIncrement     | Boolean | The AutoIncrement member of the Boolean Type in the DataColumn Type is used to indicate whether the column automatically increments its value for each new row added to the table.   |
| msgInfoDT.PrimaryKey..AutoIncrementSeed | Int64   | The AutoIncrementSeed member of the Int64 type in the DataColumn class is used to set the starting value for an auto-incrementing column in a database table. It defines the initial value from which the column's values will start incrementing. |
| msgInfoDT.PrimaryKey..AutoIncrementStep | Int64   | The AutoIncrementStep member of the Int64 type in the DataColumn class is used to specify the amount by which the auto-incrementing value should be incremented after each new row is inserted into the database table.                            |
| msgInfoDT.PrimaryKey..Caption           | String  | The Caption member of the DataColumn Type is a string that represents the display name or label for the column in the user interface of the EHR software.  |
| msgInfoDT.PrimaryKey..ColumnName        | String  | The ColumnName member of String Type in the  |

|  |        |  |
|--|--------|--|
|  |        | DataColumn class is used to specify the name of a column in a DataTable. It is used to uniquely identify and reference a specific column in the DataTable.   |
| msgInfoDT.PrimaryKey..Prefix             | String | The Prefix member of the String Type in the DataColumn class is used to specify a string that is prefixed to the values in the column. In the context of an EHR software, it may be used to add a prefix to specific data fields, providing additional information or context to the values in the column.   |
| msgInfoDT.PrimaryKey..DataType           | Type   | The DataType member of the DataColumn type in the ResultGroup class represents the data type of the column in a DataTable. It specifies the type of data that can be stored in the column, such as string, integer, datetime, etc. It is used to ensure that the data stored in the column is of the correct type and to perform type-specific operations on the data. |
| msgInfoDT.PrimaryKey..DataType.Missing   | Object | The missing member of the Object Type in the ResultGroup Type is the hl7Msg member. It is used to store the HL7 message associated with the result group in the EHR software.  |
| msgInfoDT.PrimaryKey..DataType.Delimiter | Char   | The Delimiter member of the Char Type is used to   |

|  |                     |  |
|--|---------------------|--|
|  |                     | define the character that separates or delimits different sections or fields of data in a specific format or message. In the context of an EHR software, it is used to parse and interpret data in a standardized format, such as HL7 messages, where different sections of the message are separated by a particular character. |
| msgInfoDT.PrimaryKey..DataType.EmptyTypes  | Type[]              | The EmptyTypes member of the Type[] Type is an array of Type objects that represents an empty set of types. It is used in the context of an EHR software to indicate that there are no types present or required for a specific operation or functionality.  |
| msgInfoDT.PrimaryKey..DataType.EmptyTypes. | Type                | The member of the Type Type is a DataTable which stores the patient demographics information associated with a result group. It is used to store and retrieve patient information in electronic health record (EHR) software.  |
| msgInfoDT.PrimaryKey..DateTimeMode         | DataSetDateTimeMode | The DateTimeMode member of the DataSetDateTime Type in the DataColumn Type is used to specify the mode in which DateTime values in a DataTable are stored. It indicates whether the DateTime values are stored   |

|   |                 |  |
|---|-----------------|--|
|   |                 | in the local time zone, in UTC (Coordinated Universal Time), or in an unspecified time zone.   |
| msgInfoDT.PrimaryKey..DateTimeMode.value__          | Int32           | The value__ member of Int32 Type in the DataSetDateTime Type is an integer value that represents the specific type of date and time format used in a dataset. It is used to determine the way dates and times are stored and interpreted within the dataset.               |
| msgInfoDT.PrimaryKey..DateTimeMode.Local            | DataSetDateTime | The Local member of the DataSetDateTime Type is used to represent a date and time value in the local time zone of the EHR software.  |
| msgInfoDT.PrimaryKey..DateTimeMode.Unspecified      | DataSetDateTime | The Unspecified member of the DataSetDateTime Type is used to indicate that the date and time value in a dataset is not specified or known. It is used in cases where the EHR software does not have access to the specific date and time information for a given dataset. |
| msgInfoDT.PrimaryKey..DateTimeMode.UnspecifiedLocal | DataSetDateTime | The UnspecifiedLocal member of the DataSetDateTime Type is used to represent a date and time that is not specified as being in a specific time zone but is intended to be interpreted as the local time of the   |

|  |                 |   |
|--|-----------------|---|
|  |                 | system or environment in which it is being used.  |
| msgInfoDT.PrimaryKey..DateTimeMode.Utc | DataSetDateTime | The Utc member of the DataSetDateTime Type is used to indicate that the date and time value is in Coordinated Universal Time (UTC) format.  |
| msgInfoDT.PrimaryKey..DefaultValue     | Object          | The DefaultValue member of the Object Type in the DataColumn class is used to specify the default value for a column in a DataTable.  |
| msgInfoDT.PrimaryKey..Expression       | String          | The Expression member of String Type in the DataColumn class is used to store a mathematical or logical expression that can be evaluated against the data in the column. It allows for dynamic calculations or filtering of the data based on specific criteria.                            |
| msgInfoDT.PrimaryKey..MaxLength        | Int32           | The MaxLength member of the Int32 Type in the DataColumn Type determines the maximum length of a string that can be stored in the column. It is used to enforce a maximum length constraint on the data being stored in the column, ensuring data integrity and preventing data truncation. |
| msgInfoDT.PrimaryKey..Namespace        | String          | The Namespace member of the String Type in the DataColumn class is used   |

|   |             |   |
|---|-------------|---|
|   |             | to specify the namespace of the column when working with XML data.  |
| msgInfoDT.PrimaryKey..ReadOnly              | Boolean     | The ReadOnly member of the Boolean Type in the DataColumn class is used to indicate whether a column can be modified or not. In the context of an Electronic Health Record (EHR) software, it is used to ensure that certain data fields are not editable by users to maintain data integrity and prevent accidental modifications. |
| msgInfoDT.PrimaryKey..Unique                | Boolean     | The Unique member of the Boolean Type in the DataColumn Type is used to specify whether the values in the column must be unique or not.   |
| msgInfoDT.PrimaryKey..ColumnMapping         | MappingType | The ColumnMapping member of the MappingType Type is used to determine how a DataColumn will be mapped to the corresponding element or attribute in an XML document.   |
| msgInfoDT.PrimaryKey..ColumnMapping.value__ | Int32       | The value__ member of the Int32 Type in the MappingType Type is an automatically generated value that represents the underlying enum value. It is used for internal purposes within the EHR software to efficiently store and manipulate enum   |



|   |             |   |
|---|-------------|---|
|   |             | values.   |
| msgInfoDT.PrimaryKey..ColumnMapping.Element       | MappingType | The Element member of the MappingType Type is used to define an element within an XML document. It is used to map specific data elements within the hl7Msg of the ResultGroup type to their corresponding XML elements in the EHR software.       |
| msgInfoDT.PrimaryKey..ColumnMapping.Attribute     | MappingType | The Attribute member of the MappingType Type is used to indicate that a mapping is for an attribute within the XML data. It is used in the EHR software to specify how data from the XML is mapped to an attribute in the database or vice versa. |
| msgInfoDT.PrimaryKey..ColumnMapping.SimpleContent | MappingType | The SimpleContent member of the MappingType Type is used to represent a simple content mapping in the EHR software. It is used to define the mapping type for a simple content element in the XML structure.                                      |
| msgInfoDT.PrimaryKey..ColumnMapping.Hidden        | MappingType | The Hidden member of the MappingType Type is used to indicate that a specific mapping element or attribute is not meant to be displayed or visible to the user in the EHR software. It is used for internal or administrative purposes and is not |

|                                 |        |  |
|---------------------------------|--------|--|
|                                 |        | relevant or necessary for the user's interaction with the software.  |
| msgInfoDT.PrimaryKey..Site      | ISite  | The Site member of the ISite Type is used to store the name of the site or organization associated with the DataColumn in an EHR software.   |
| msgInfoDT.PrimaryKey..Site.Name | String | The Name member of String Type in the ISite Type is used to store the name of a site within an EHR software system.  |
| msgInfoDT.TableName             | String | The TableName member of String Type in the DataTable Type is used to specify the name of the table or dataset within the EHR software. It is used for identification and organization purposes within the database.                |
| msgInfoDT.Namespace             | String | The Namespace member of the String Type in the DataTable class is used to specify the namespace for the DataTable object. It provides a way to organize and distinguish the DataTable from other elements within the EHR software. |
| msgInfoDT.Prefix                | String | The Prefix member of String Type in the DataTable Type is used to specify a prefix that is appended to the names of XML elements and attributes created when   |

|                   |           |  |
|-------------------|-----------|--|
|                   |           | the DataTable is serialized to XML.  |
| msgInfoDT.Site    | ISite     | The Site member of the ISite type in the DataTable class is used to store the name of the site or location associated with the data represented by the DataTable.                                |
| patDemographicsDT | DataTable | The patDemographicsDT member of the DataTable Type is used to store the patient demographic information, such as the patient's name, address, date of birth, gender, and other relevant details. |
| patVisitDT        | DataTable | The patVisitDT member of the DataTable Type in the ResultGroup Type is used to store data related to patient visits in an electronic health record (EHR) system.                                 |

## Intervention - "ehr\_file" CSV Export

The ehr\_file table is used to store electronic health records (EHR) files related to interventions for patients. It contains columns such as the unique patient ID, the type of intervention, the date and time of the intervention, the actual data of the intervention, the last modified date and time, the unique employee ID who performed the intervention, and other related identifiers and timestamps. This table is used in conjunction with an EHR software to manage and track interventions made for patients.

| Column Name            | Data Type                   | Description  | Extraction Method               |
|------------------------|-----------------------------|--|---------------------------------|
| fid                    | int                         | The fid column is a unique identifier for each file in the ehr_file table.   | CSV                             |
| acctid                 | int                         | The acctid column is the unique patient ID from the 'patients' table.  | CSV                             |
| type                   | int                         | The 'type' column in the 'ehr_file' table represents the type or category of the electronic health record file.                    | CSV                             |
| datet                  | datetime<br>default<br>NULL | The datet column in the ehr_file table represents the date and time when the file was created or last modified.                    | CSV                             |
| data                   | longblob                    | The data column is used to store the actual content of the electronic health record file.  | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the file was last modified.  | CSV                             |
| empid                  | int                         | The empid column is the unique employee ID associated with the record in the ehr_file table.                                       | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column is a boolean flag that identifies whether the file is associated with patient educational resources. | CSV                             |

|                             |                             |   |     |
|-----------------------------|-----------------------------|---|-----|
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The ident_pat_edu_rsrc_datetime column stores the date and time when the educational resource was last identified for a specific patient. | CSV |
| locid                       | int                         | The locid column is the unique ID of the location where the EHR file is associated.   | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for a patient.   | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the data in the file was uploaded for the patient.                         | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier generated for each row when it is inserted into the ehr_file table.                         | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the ehr_file was created.   | CSV |
| sub_type                    | int                         | The sub_type column is an integer value that represents a subtype or category within the ehr_file table.                                  | CSV |

## MedRecIntervention Type

The MedRecIntervention Type is used to represent interventions performed or planned for a patient in an Electronic Health Record (EHR) system. It may include information such as the specific code for the intervention, any translation codes associated with it, and the reason for the intervention being done or not done. A MedRecIntervention is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name                  | Type               | Description   |
|------------------------------|--------------------|---|
|                              | MedRecIntervention | The `TranslationCodeList` member of the `MedRecIntervention` type is a list of `Code` objects. It is used to store a list of codes that represent translations or mappings for the intervention, for different coding systems or terminology standards.   |
| TranslationCodeList          | List<Code>         | The TranslationCodeList member of type List<Code> in the MedRecIntervention type is used to store a list of codes that represent translations or mappings of a particular code to different code systems or terminologies.  |
| TranslationCodeList.         | Code               | The Code Type member in the List<Code> type is used to represent a specific code with its associated information, such as code value, description, code system, code system version, value set, and other related attributes. It is used to store and retrieve standardized codes for various medical concepts and procedures within an electronic health record (EHR) software system. |
| TranslationCodeList..CodeStr | String             | The CodeStr member of String Type in the Code Type is used to store the actual code value associated with a particular medical concept or terminology. It represents a unique identifier that helps   |

|  |        |  |
|--|--------|--|
|  |        | identify and categorize medical information within the EHR software.   |
| TranslationCodeList..Description       | String | The Description member of the String Type in the Code class is used to store a textual description associated with a specific code. It provides additional information or context about the code value.                          |
| TranslationCodeList..CodeSystem        | String | The CodeSystem member of the Code Type is used to store the code system identifier for a specific medical code. It represents the standard or authority that the code belongs to, such as SNOMED CT, ICD-10, or LOINC.           |
| TranslationCodeList..CodeSystemVersion | String | The CodeSystemVersion member of String Type in the Code Type is used to specify the version of the code system to which the code belongs.  |
| TranslationCodeList..ValueSet          | String | The ValueSet member of String Type in the Code Type is used to store the identifier or reference to a predefined set of codes that are used for a specific purpose or domain within the Electronic Health Record (EHR) software. |
| TranslationCodeList..id                | String | The "id" member of the String Type in the Code Type is used as a unique identifier for a specific code or value in the EHR software. It serves as a way to uniquely identify and reference a specific code within the system.    |
| TranslationCodeList..codeSystemName    | String | The codeSystemName member of String Type in the Code Type is used to store the name or identifier of the code system that the code belongs to.   |
| TranslationCodeList..valueSetVersion   | String | The valueSetVersion member of the Code Type in the MedRecIntervention class is used to specify the version of the value set that the code belongs to.  |

|  |          |   |
|--|----------|---|
| TranslationCodeList..nullFlavor          | String   | The nullFlavor member of the String Type in the Code Type is used to indicate the absence or lack of a value for a particular code attribute in the EHR software.   |
| TranslationCodeList..codeType            | CodeType | The codeType member of the CodeType Type is used to identify the type of code being used in the EHR software. It may contain information such as the ID and a string representation of the code type.   |
| TranslationCodeList..codeType.id         | Int32    | The id member of Int32 Type in the CodeType Type is used to uniquely identify a specific code within the EHR software system.   |
| TranslationCodeList..codeType.typeString | String   | The typeString member of the CodeType Type is used to store a string value that represents the type of code being used in the EHR software.   |
| code                                     | Code     | The "code" member of the Code Type is used to store the specific code value for a medical intervention. This code value represents a standardized identification for a specific medical procedure, treatment, or action. It helps in categorizing and identifying the intervention in a standardized manner within the Electronic Health Record (EHR) system. |
| reasonDoneCode                           | String   | The reasonDoneCode member of String Type in the MedRecIntervention Type is used to store the code indicating the reason why a particular intervention was done.   |
| reasonNotDoneCode                        | String   | The `reasonNotDoneCode` member of the `MedRecIntervention` Type is used to indicate the reason why an intervention was not performed or completed in the electronic health record (EHR) software.   |



## Contact Lens RX Notes - "clrx\_notes" CSV Export

The clrx\_notes table is used to store contact lens RX notes in the EHR software. This table is used to document and track the contact lens prescriptions and related information for each patient. It includes columns for the patient ID, the date of the medical record, and the XML data containing the contact lens RX notes. The primary key of this table is a combination of the patient ID and the medical record date, ensuring that each entry is unique and identifiable.

| Column Name         | Data Type                             | Description   | Extraction Method            |
|---------------------|---------------------------------------|---|------------------------------|
| acctid              | int                                   | The `acctid` column in the `clrx_notes` table represents the unique patient ID from the `patients` table.                             | CSV                          |
| medical_record_date | date NOT NULL<br>default '1000-01-01' | The medical_record_date column stores the date of the medical record associated with a particular account ID in the clrx_notes table. | CSV                          |
| xml                 | mediumtext                            | The xml column contains XML data that is associated with the medical record for a specific account ID and medical record date.        | CSV + XML<br>Deserialization |

## Kno2 Message - "kno2\_message" CSV Export

The kno2\_message table is used to store messages sent using the Kno2 messaging system within an EHR software. Messages can be drafted, sent, and have attachments imported. The table includes fields for the message details such as the sender and recipient addresses, subject, body, and comments. It also stores information about the patient related to the message, including their ID, name, gender, birth date, and zip code. The table has fields to track the status of the message, such as whether it is a draft, sent, or complete, and whether delivery has been confirmed. Additionally, there are fields related to the processing of the message, such as the type of message, the reason for disclosure, and any associated resources or attachments. The table has several indexes to optimize querying based on various criteria.

| Column Name            | Data Type                                       | Description  | Extraction Method |
|------------------------|---|--|-------------------|
| id                     | bigint  | The 'id' column is a unique identifier for each row in the 'kno2_message' table.   | CSV               |
| insert_guid            | varchar   | The insert_guid column is a unique identifier that is automatically generated when a new record is inserted into the kno2_message table. | CSV               |
| created_datetime       | datetime NOT NULL default '0000-00-00 00:00:00' | The created_datetime column represents the exact date and time when the message was initially created.                                   | CSV               |
| last_modified_datetime | datetime NOT NULL default '0000-00-00 00:00:00' | The last_modified_datetime column stores the date and time when the record was last modified.  | CSV               |

|                         |                             |  |                            |
|-------------------------|-----------------------------|--|----------------------------|
| xml                     | text                        | The xml column in the kno2_message table stores the XML data of the message.                                     | CSV + XML Deserializati on |
| acctid                  | int                         | The acctid column in the kno2_message table represents the unique ID of the patient associated with the message. | CSV                        |
| date                    | datetime<br>default<br>NULL | The date column stores the date and time when the message was created or last modified.                          | CSV                        |
| originating_application | int                         | The originating_application column represents the application from which the message originated.                 | CSV                        |
| kno2_id                 | varchar                     | The kno2_id column is a unique identifier for the Kno2 message.  | CSV                        |
| creating_empid          | int                         | The creating_empid column represents the unique employee ID of the user who created the message.                 | CSV                        |
| is_draft                | tinyint                     | The is_draft column indicates whether a message is in draft form or not.   | CSV                        |
| is_sent                 | tinyint                     | The 'is_sent' column indicates whether the message has been sent.  | CSV                        |
| attachment_imported     | tinyint                     | The attachment_imported column indicates whether the attachment associated with the message has been imported.   | CSV                        |
| from_address            | varchar                     | The from_address column represents the email address or sender's address of the message.                         | CSV                        |
| to_address              | text                        | The to_address column contains the email addresses of the recipients of the message.                             | CSV                        |
| subject                 | varchar                     | The subject column contains the subject line of the message.   | CSV                        |

|                       |                          |  |     |
|-----------------------|--------------------------|--|-----|
| body                  | text                     | The body column contains the main content or message of the Kno2 message.  | CSV |
| comments              | text                     | The comments column contains additional text or notes associated with the message.   | CSV |
| reason_for_disclosure | text                     | The reason_for_disclosure column stores the reason provided for the disclosure of the message.   | CSV |
| message_status        | int                      | The message_status column in the kno2_message table represents the current status of the message.  | CSV |
| processed_type        | int                      | The processed_type column categorizes the status of the message processing.  | CSV |
| priority              | int                      | The priority column indicates the priority level of a message.   | CSV |
| message_type          | varchar                  | The message_type column specifies the type of the message being stored in the kno2_message table.  | CSV |
| patient_id            | varchar                  | The patient_id column is a unique identifier for a patient in the database.  | CSV |
| patient_first_name    | varchar                  | The patient_first_name column contains the first name of the patient associated with the message.  | CSV |
| patient_middle_name   | varchar                  | The patient_middle_name column stores the middle name of the patient.  | CSV |
| patient_last_name     | varchar                  | The patient_last_name column stores the last name of the patient.  | CSV |
| patient_gender        | varchar                  | The patient_gender column is a non-null field in the kno2_message table that stores the gender of the patient associated with the message. | CSV |
| patient_birth_date    | datetime<br>e<br>default | The patient_birth_date column stores the date of birth of the patient.   | CSV |

|                                 |          |  |                              |
|---------------------------------|----------|--|------------------------------|
|                                 | NULL     |  |                              |
| patient_zip                     | varchar  | The patient_zip column stores the zip code of the patient.   | CSV                          |
| complete                        | tinyint  | The complete column indicates whether a message is complete or not. It is a boolean value where 0 represents incomplete and 1 represents complete. | CSV                          |
| message_attachment_ident_data   | longblob | The message_attachment_ident_data column stores the identifying information for any attachments associated with the message.                       | CSV + Binary Deserialization |
| message_resource_data           | longblob | The message_resource_data column stores large binary data related to the message resource.   | CSV + Binary Deserialization |
| is_request_for_soc_ccd          | tinyint  | The is_request_for_soc_ccd column indicates whether the message is a request for a Summary of Care Continuity of Care Document (SOC CCD).          | CSV                          |
| soc_ccd_is_attached             | tinyint  | The soc_ccd_is_attached column indicates whether a System of Care Continuity of Care Document (SOC CCD) is attached to the message.                | CSV                          |
| delivery_confirmed              | tinyint  | The delivery_confirmed column indicates whether the message delivery has been confirmed or not.  | CSV                          |
| message_reference_list_data     | longblob | The message_reference_list_data column stores the data related to the reference list included in the message.                                      | CSV + Binary Deserialization |
| stat_scan_performed_version_num | int      | The stat_scan_performed_version_num column is an unsigned integer that represents the version number of the performed statistical scan.            | CSV                          |
| stat_scan_result_count_ccda     | int      | The stat_scan_result_count_ccda column represents the number of CCDA documents that were successfully scanned for statistical analysis.            | CSV                          |

|   |     |  |     |
|---|-----|--|-----|
| stat_scan_result_count_summ_of_eps_note | int | The 'stat_scan_result_count_summ_of_eps_note' column stores the total number of scanned results for the summary of electronic patient notes. | CSV |
|---|-----|--|-----|

## Kno2\_Message Type

The Kno2\_Message type is used to store information about a message in the Kno2 platform. It includes the contact information of the sender in the fromAddressContactSmall property. A Kno2\_Message is serialized as XML in the xml column in the kno2\_message table.

| Member Name                         | Type          | Description  |
|-------------------------------------|---------------|--|
|                                     | Kno2_Message  | The member "fromAddressContactSmall" in the Kno2_Message type is used to store the contact information of the sender of the message.   |
| fromAddressContactSmall             | Contact_Small | The fromAddressContactSmall member of the Contact_Small Type is used to store the contact information (address and description) of the sender of the Kno2 message.   |
| fromAddressContactSmall.address     | String        | The address member of the String Type in the Contact_Small Type is used to store the email address of a contact.   |
| fromAddressContactSmall.description | String        | The "description" member of the String Type in the Contact_Small Type is used to provide additional information or context about the address of the contact. This could include details such as the purpose or role of the contact, any specific instructions or preferences associated with the contact, or any other relevant descriptive information that helps to further identify or clarify the contact's address. |

## Direct Mail Message - "directmail\_message" CSV Export

The directmail\_message table is used to store Direct Mail Messages within an EHR software. It contains information such as the XML representation of the message, the date and time it was created, the originating application, the sender and recipient addresses, the subject and body of the message, as well as details about the patient associated with the message (such as their ID, name, gender, birth date, and zip code). Additionally, the table keeps track of the message's draft and sent status, any attachments, and whether the message has been delivered and confirmed.

| Column Name            | Data Type                                       | Description   | Extraction Method |
|------------------------|---|---|-------------------|
| id                     | bigint  | The id column is a primary key column in the directmail_message table. It is an auto-incrementing unsigned bigint column that uniquely identifies each record in the table. | CSV               |
| insert_guid            | varchar   | The insert_guid column is a unique identifier for each record in the directmail_message table.  | CSV               |
| created_datetime       | datetime NOT NULL default '0000-00-00 00:00:00' | The created_datetime column stores the date and time when the direct mail message was created.  | CSV               |
| last_modified_datetime | datetime NOT NULL default '0000-00-00 00:00:00' | The last_modified_datetime column stores the date and time when the record was last modified.   | CSV               |



|                         |                             |   |                            |
|-------------------------|-----------------------------|---|----------------------------|
| xml                     | text                        | The xml column stores the XML data related to the direct mail message.  | CSV + XML Deserializati on |
| acctid                  | int                         | The acctid column is the unique patient ID that identifies each patient in the directmail_message table.              | CSV                        |
| date                    | datetime<br>default<br>NULL | The 'date' column stores the date and time when the direct mail message was created.                                  | CSV                        |
| originating_application | int                         | The originating_application column represents the application or system that generated the direct mail message.       | CSV                        |
| directmail_id           | varchar                     | The directmail_id column is a unique identifier for a direct mail message.  | CSV                        |
| uid                     | bigint                      | The uid column is a unique identifier for the user associated with the direct mail message.                           | CSV                        |
| creating_empid          | int                         | The creating_empid column is the unique employee ID of the employee who created the direct mail message.              | CSV                        |
| is_draft                | tinyint                     | The is_draft column indicates whether the direct mail message is a draft or not.                                      | CSV                        |
| is_sent                 | tinyint                     | The is_sent column indicates whether the direct mail message has been sent.   | CSV                        |
| attachment_imported     | tinyint                     | The attachment_imported column indicates whether the attachment for the direct mail message has been imported or not. | CSV                        |
| from_address            | varchar                     | The from_address column stores the email address of the sender of the direct mail message.                            | CSV                        |
| to_address              | text                        | The to_address column stores the email address(es) of the recipient(s) of the direct mail message.                    | CSV                        |

|                               |                             |  |                                 |
|-------------------------------|-----------------------------|--|---------------------------------|
| subject                       | varchar                     | The subject column contains the subject line of the direct mail message.   | CSV                             |
| body                          | text                        | The body column contains the actual content of the message.  | CSV                             |
| patient_id                    | varchar                     | The patient_id column stores the unique ID of the patient associated with the direct mail message.   | CSV                             |
| patient_first_name            | varchar                     | The patient_first_name column stores the first name of the patient associated with a direct mail message.  | CSV                             |
| patient_middle_name           | varchar                     | The patient_middle_name column stores the middle name of the patient.  | CSV                             |
| patient_last_name             | varchar                     | The patient_last_name column is a column that stores the last name of the patient.   | CSV                             |
| patient_gender                | varchar                     | The patient_gender column stores the gender of the patient.  | CSV                             |
| patient_birth_date            | datetime<br>default<br>NULL | The patient_birth_date column stores the date of birth of the patient.   | CSV                             |
| patient_zip                   | varchar                     | The patient_zip column represents the zip code of the patient's address.   | CSV                             |
| complete                      | tinyint                     | The "complete" column indicates whether the direct mail message is complete or not. A value of 1 signifies that the message is complete, while a value of 0 indicates that some parts of the message may be missing or incomplete. | CSV                             |
| message_attachment_ident_data | longblob                    | The message_attachment_ident_data column contains the binary data of the message attachments associated with the direct mail message.  | CSV + Binary<br>Deserialization |
| message_resource_data         | longblob                    | The message_resource_data column   | CSV + Binary                    |

|   |              |  |                                     |
|---|--------------|--|-------------------------------------|
|   | b            | stores the binary data of the resources associated with the direct mail message, such as image files or documents.   | Deserializati<br>on                 |
| is_request_for_soc_ccd                  | tinyint      | The is_request_for_soc_ccd column indicates whether the direct mail message is a request for a Start of Care Continuity of Care Document (SOC CCD).  | CSV                                 |
| soc_ccd_is_attached                     | tinyint      | The `soc_ccd_is_attached` column indicates whether a direct mail message has a signed-off care plan document attached.   | CSV                                 |
| delivery_confirmed                      | tinyint      | The delivery_confirmed column indicates whether the message delivery has been confirmed.   | CSV                                 |
| message_reference_list_data             | longblo<br>b | The message_reference_list_data column stores a large binary object containing data related to the references or citations used within the message.  | CSV + Binary<br>Deserializati<br>on |
| stat_scan_performed_version_num         | int          | The stat_scan_performed_version_num column is an unsigned integer that represents the version number of a statistical scan performed on a direct mail message.                                     | CSV                                 |
| stat_scan_result_count_ccda             | int          | The `stat_scan_result_count_ccda` column represents the number of scans performed on the message to detect and count the result related to the CCDA (Consolidated Clinical Document Architecture). | CSV                                 |
| stat_scan_result_count_summ_of_eps_note | int          | The stat_scan_result_count_summ_of_eps_note column stores the number of scan results for the summary of electronic progress notes associated with the direct mail message.                         | CSV                                 |



## DirectMail\_Message Type

The DirectMail\_Message Type is used to store information about a direct mail message within an EHR software. It includes details such as the sender's contact information, allowing for communication with patients through physical mail. A DirectMail\_Message is serialized as XML in the xml column in the directmail\_message table.

| Member Name                         | Type               | Description  |
|-------------------------------------|--------------------|--|
|                                     | DirectMail_Message | The member "fromAddressContactSmall" in the DirectMail_Message Type is used to store the contact information of the sender (from address) of a direct mail message in an EHR software. |
| fromAddressContactSmall             | Contact_Small      | The fromAddressContactSmall member of the Contact_Small type is used to store the contact information (address) of the sender of a direct mail message in an EHR software application. |
| fromAddressContactSmall.address     | String             | The address member of the String Type in the Contact_Small Type is used to store the physical mailing address of a contact.  |
| fromAddressContactSmall.description | String             | The "description" member of String Type in the Contact_Small Type is used to store additional descriptive information about the contact.   |

## Diagnostic Study - "ehr\_file" CSV Export

The ehr\_file table is used to store diagnostic studies for patients in an EHR software. Each study is associated with a patient, identified by the acctid column, and may also include the type of study, the date and time it was conducted, and the actual study data. The table also includes information about the last modification date and time, the employee who conducted the study (identified by the empid column), and the location where the study took place (identified by the locid column). Additionally, there are columns to track whether the study has been identified as a patient education resource and whether it has been uploaded for the patient. The table is used to store and manage the diagnostic study data for efficient retrieval and analysis within the EHR software.

| Column Name            | Data Type                   | Description  | Extraction Method               |
|------------------------|-----------------------------|--|---------------------------------|
| fid                    | int                         | The fid column is a unique identifier for each record in the ehr_file table.   | CSV                             |
| acctid                 | int                         | The acctid column is the unique patient ID from the 'patients' table.  | CSV                             |
| type                   | int                         | The type column represents the type of the file in the EHR system.   | CSV                             |
| datet                  | datetime<br>default<br>NULL | The `datet` column stores the date and time when the file was created or modified.   | CSV                             |
| data                   | longblob                    | The data column in the ehr_file table stores the actual data of the electronic health record file.                             | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column stores the date and time when the file was last modified.                                    | CSV                             |
| empid                  | int                         | The empid column is the unique employee ID from the employees table.   | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column is a boolean column that represents whether or not a patient is identified as having educational | CSV                             |

|                             |                             |  |     |
|-----------------------------|-----------------------------|--|-----|
|                             |                             | resources in their electronic health records.  |     |
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The `ident_pat_edu_rsrc_datetime` column is the datetime when the patient's educational resource identification was recorded or updated. | CSV |
| locid                       | int                         | The locid column is a foreign key referencing the unique location ID from the 'locations' table.   | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for the patient or not.   | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the file was uploaded for the patient.                                    | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier generated for each record that is inserted into the ehr_file table.                        | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the record was created in the ehr_file table.                                  | CSV |
| sub_type                    | int                         | The sub_type column indicates a specific subtype or variation of the type of data stored in the file.                                    | CSV |

## MedRecDiagnosticStudy Type

The MedRecDiagnosticStudy type is used to store information related to diagnostic studies performed on a patient within an electronic health record (EHR) system. It contains a code representing the type of study, along with optional codes for the reasons the study was done or not done. Additionally, it can include a list of translation codes that provide additional context or information about the study. A MedRecDiagnosticStudy is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name          | Type                  | Description  |
|----------------------|-----------------------|--|
|                      | MedRecDiagnosticStudy | The member "TranslationCodeList" in the MedRecDiagnosticStudy type represents a list of codes used for translating or mapping specific medical terms or diagnoses. It is used to support interoperability between different healthcare systems or standards by providing standardized codes for diagnostic data.                     |
| TranslationCodeList  | List<Code>            | The TranslationCodeList member is used to store a list of codes that represents the translation of a code used in the MedRecDiagnosticStudy. This list allows for mapping between different code systems or versions, allowing for interoperability and compatibility with different healthcare systems and standards.               |
| TranslationCodeList. | Code                  | The member of the Code Type is used to represent a specific code or identifier for a medical concept or condition. It includes properties such as the code value, description, code system, code system version, and value set information. It is used in the MedRecDiagnosticStudy type to store diagnostic study codes and related |



|  |        |   |
|--|--------|---|
|  |        | information.  |
| TranslationCodeList..CodeStr           | String | The CodeStr member of String Type in the Code Type is used to store the code value for a particular medical concept or terminology.   |
| TranslationCodeList..Description       | String | The Description member of the String Type in the Code Type is used to provide a textual description or explanation of the code value.   |
| TranslationCodeList..CodeSystem        | String | The CodeSystem member of String Type in the Code Type is used to store the code system or classification system that is used to identify the specific code value. It provides information about the source or governing body that has defined the codes.  |
| TranslationCodeList..CodeSystemVersion | String | The CodeSystemVersion member of String Type in the Code Type within the MedRecDiagnosticStudy class is used to store the version of the specific code system that the code belongs to. It is used in the context of an EHR software to ensure accurate and up-to-date coding standards are maintained and referenced within medical records and diagnostic studies.   |
| TranslationCodeList..ValueSet          | String | The ValueSet member of String Type in the Code Type is used to store a reference to a specific set of codes that can be used for a particular purpose, such as the classification or categorization of medical data. It may provide a standardized and uniform way of representing codes within the EHR software, ensuring consistency and interoperability across different systems and healthcare settings. |

|  |          |   |
|--|----------|---|
| TranslationCodeList..id                  | String   | The `id` member of the `String` type in the `Code` class is a unique identifier for a specific code. It is used to uniquely identify and reference a particular code within the EHR software system.            |
| TranslationCodeList..codeSystemName      | String   | The codeSystemName member of String Type in the Code Type is used to store the name or identifier of the code system from which the code value is derived.  |
| TranslationCodeList..valueSetVersion     | String   | The valueSetVersion member of type String in the Code class is used to specify the version of the value set that the code belongs to.   |
| TranslationCodeList..nullFlavor          | String   | The nullFlavor member of String Type in the Code Type is used to indicate the absence or unknown value of a code for a specific element in the EHR software.  |
| TranslationCodeList..codeType            | CodeType | The codeType member of the CodeType Type is used to identify the type of code being used, such as a diagnosis code or procedure code.   |
| TranslationCodeList..codeType.id         | Int32    | The `id` member of the `Int32` type in the `CodeType` type is used to uniquely identify a specific code in the EHR software.  |
| TranslationCodeList..codeType.typeString | String   | The typeString member of String Type in CodeType is used to store a string representation of the code type.   |
| code                                     | Code     | The code member of the Code Type in the MedRecDiagnosticStudy Type is used to store a specific code value that represents a medical concept or term. It is used to record the standardized code of a diagnosis, |

|                   |        |  |
|-------------------|--------|--|
|                   |        | procedure, or other clinical information within the electronic health record (EHR) system.   |
| reasonDoneCode    | String | The reasonDoneCode member of String Type in the MedRecDiagnosticStudy Type is used to store the code that represents the reason why a diagnostic study was performed.                  |
| reasonNotDoneCode | String | The reasonNotDoneCode member of String Type in the MedRecDiagnosticStudy Type is used to document the reason why a diagnostic study was not performed or completed in an EHR software. |

## Clinical Note - "clinical\_note" CSV Export

The clinical\_note table is used to store clinical notes in an EHR software. Each note is associated with a specific patient, employee, date, and type. The note can be in XML format and there is also a text field to store additional information or details about the note. The table has a unique ID for each note and timestamps to track when the note was created and last modified.

| Column Name            | Data Type                                       | Description  | Extraction Method         |
|------------------------|---|--|---------------------------|
| id                     | bigint  | The id column is an auto-incrementing, unsigned integer field that uniquely identifies each clinical note in the database table. | CSV                       |
| insert_guid            | varchar   | The insert_guid column is a unique identifier for the insertion of a clinical note into the database.                            | CSV                       |
| created_datetime       | datetime NOT NULL default '0000-00-00 00:00:00' | The created_datetime column represents the exact date and time when the clinical note was originally created.                    | CSV                       |
| last_modified_datetime | datetime NOT NULL default '0000-00-00 00:00:00' | The last_modified_datetime column stores the date and time when the clinical note was last modified.                             | CSV                       |
| xml                    | text  | The xml column contains structured data in XML format, which can be used to store complex and hierarchical data.                 | CSV + XML Deserialization |
| acctid                 | int   | The acctid column in the clinical_note table is the unique patient ID from the patients table.                                   | CSV                       |
| empid                  | int   | The empid column is the unique identifier for an employee in the employees table.  | CSV                       |
| date                   | datetime NOT NULL default '0000-00-00           | The date column stores the date and time when the clinical note was recorded.  | CSV                       |

|      |           |  |     |
|------|-----------|--|-----|
|      | 00:00:00' |  |     |
| type | int       | The type column represents the type or category of the clinical note.                                  | CSV |
| note | text      | The note column contains the text content of the clinical note recorded for a patient's medical visit. | CSV |

## ClinicalNote Type

The ClinicalNote Type is used to store and manage textual notes entered by healthcare professionals in an electronic health record (EHR) system. These notes may include patient information, observations, assessments, and treatment plans. A ClinicalNote is serialized as XML in the xml column in the clinical\_note table.

| Member Name | Type         | Description   |
|-------------|--------------|---|
|             | ClinicalNote | The xml column of the ClinicalNote Type is used to store serialized data of a clinical note in an EHR software. |

## Device - "ehr\_file" CSV Export

The ehr\_file table is used to store electronic health records (EHRs) for patients. It contains columns for the patient ID, type of EHR data, date and time of the record, actual EHR data, and other relevant information such as the last modified date and time, employee ID, location ID, and various timestamps. The table is used by an EHR software system to store and retrieve patient records, allowing healthcare providers to access and update patient information as needed.

| Column Name            | Data Type                   | Description   | Extraction Method               |
|------------------------|-----------------------------|---|---------------------------------|
| fid                    | int                         | The fid column is a unique identifier for each record in the ehr_file table.  | CSV                             |
| acctid                 | int                         | The acctid column is the unique patient ID from the 'patients' table.   | CSV                             |
| type                   | int                         | The 'type' column in the 'ehr_file' table represents the type of electronic health record file stored in the database.  | CSV                             |
| datet                  | datetime<br>default<br>NULL | The datet column stores the date and time when the file record was created or last modified.  | CSV                             |
| data                   | longblob                    | The 'data' column in the "ehr_file" table stores the actual data files, such as medical records, images, or documents, associated with electronic health records. | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column represents the date and time when the file was last modified.   | CSV                             |
| empid                  | int                         | The 'empid' column is the unique employee ID associated with the record in the table.   | CSV                             |
| ident_pat_edu_rsrc     | tinyint                     | The ident_pat_edu_rsrc column is a boolean indicator that determines whether a patient has been identified as having accessed educational resources.              | CSV                             |

|                             |                             |  |     |
|-----------------------------|-----------------------------|--|-----|
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The `ident_pat_edu_rsrc_datetime` column stores the date and time when the patient education resource associated with the file was identified or updated.  | CSV |
| locid                       | int                         | The locid column is a foreign key column that represents the unique ID of the location where the EHR file is associated with.  | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for the patient.  | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column represents the date and time when the file was uploaded for the patient.  | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier used for tracking and identifying the insertion of a record into the ehr_file table. Every record inserted into the table will have a corresponding insert_guid value, which is randomly generated and serves as a reference for auditing and tracking purposes. | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column stores the date and time when the record was initially created in the EHR file table.  | CSV |
| sub_type                    | int                         | The sub_type column represents a specific sub-category or classification within the type of file stored in the ehr_file table.   | CSV |



## MedRecDevice Type

The MedRecDevice type is used to represent a medical recording device in an electronic health record (EHR) system. It contains a list of translation codes and a code that represent the device. This type is used to store information about the devices used to record and measure medical data, such as blood pressure monitors, glucose meters, or pulse oximeters, allowing the EHR system to record and track data from various medical devices used in patient care. A MedRecDevice is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name                      | Type         | Description   |
|----------------------------------|--------------|---|
|                                  | MedRecDevice | The "TranslationCodeList" member of the MedRecDevice type is used to store a list of translation codes associated with a medical record device.   |
| TranslationCodeList              | List<Code>   | The TranslationCodeList member of the MedRecDevice type is used to store a list of codes that are used for translation or mapping purposes in electronic health records (EHR) software. These codes may represent different medical terminologies, classifications, or vocabularies that are used to standardize and categorize patient data within the EHR system. |
| TranslationCodeList.             | Code         | The member of Code Type in the List<Code> type is used to store information about medical codes, such as diagnosis or procedure codes, used in the electronic health record (EHR) system. These codes provide standardized and specific information regarding various medical conditions, treatments, and interventions.  |
| TranslationCodeList..CodeStr     | String       | CodeStr is a string member of the Code type that represents the code value for a specific medical concept or term. It is used to uniquely identify and classify medical information within the EHR software.  |
| TranslationCodeList..Description | String       | The Description member of the String Type in the Code class is used to store a textual  |

|  |        |  |
|--|--------|--|
|  |        | description or explanation of the code. It provides additional information about the meaning or purpose of the code, which can be helpful for understanding and interpreting the data in the EHR software.   |
| TranslationCodeList..CodeSystem        | String | The CodeSystem member of the Code Type is used to specify the coding system or standard that is used for the code value in EHR software. It provides information about the source of the code and helps in interpreting and exchanging medical data accurately.  |
| TranslationCodeList..CodeSystemVersion | String | The CodeSystemVersion member of the String Type in the Code Type is used to specify the version of the code system that the code belongs to. It provides information about the specific version of the set of codes that is being used for the purpose of EHR software.  |
| TranslationCodeList..ValueSet          | String | The ValueSet member of the Code Type in the MedRecDevice class is used to store a reference to a set of predefined values that can be used for the code. It is used in the EHR software to ensure that the code selected from the set is consistent and standardized across different systems and organizations. |
| TranslationCodeList..id                | String | The "id" member of String Type in the Code class is used to uniquely identify a specific code within the EHR software. It may be used as a reference or key to retrieve and link related information or actions associated with the specific code.   |
| TranslationCodeList..codeSystemName    | String | The `codeSystemName` member of the `Code` type in the EHR software is used to store the name or identifier of the code system from which the code is derived.  |
| TranslationCodeList..valueSetVersion   | String | The valueSetVersion member of String Type in the Code Type represents the version of the value set being used in the EHR software. It specifies the specific version of the value set that the code belongs to, allowing for precise   |

|  |          |   |
|--|----------|---|
|  |          | identification and categorization of medical information.   |
| TranslationCodeList..nullFlavor          | String   | The nullFlavor member of String Type in the Code Type is used to indicate the absence of a value or the inability to provide a value for a particular code element in the electronic health record (EHR) software. It is used when there is no applicable code or if the code is not available for a specific data element. |
| TranslationCodeList..codeType            | CodeType | The `codeType` member of the `Code` type in the `MedRecDevice` class is used to specify the type of the code. It could be used to indicate whether the code represents a diagnosis, procedure, medication, or other types of medical concepts.  |
| TranslationCodeList..codeType.id         | Int32    | The 'id' member of the Int32 type is used as a unique identifier for the CodeType instance. It is probably used to differentiate between different types of codes within the EHR software.  |
| TranslationCodeList..codeType.typeString | String   | The `typeString` member of the `CodeType` type is used to store a descriptive string that represents the type of code associated with a medical record device in an EHR software system.  |
| code                                     | Code     | The code member of the Code Type is used to store a specific code value that represents a medical concept or term. This code value is typically used for data exchange and interoperability within the Electronic Health Record (EHR) system.   |

## Eye Care Data - "ehr\_file" CSV Export

The ehr\_file table contains Eye Care Datas that are associated with an Electronic Health Record (EHR) software. It stores various types of files such as medical images, test results, or patient education resources. Each file is linked to a specific patient through the 'acctid' column, a specific file type through the 'type' column, and a specific date and time through the 'datet' column. The table also includes information about when the file was last modified, the employee who uploaded the file, and any associated identifiers or timestamps related to patient education resources. The table is used to store and manage files that are relevant to a patient's eye care treatment and documentation.

| Column Name            | Data Type                   | Description   | Extraction Method               |
|------------------------|-----------------------------|---|---------------------------------|
| fid                    | int                         | The fid column is a unique identifier for each record in the ehr_file table.  | CSV                             |
| acctid                 | int                         | The acctid column is a unique identifier for a patient in the 'patients' table.   | CSV                             |
| type                   | int                         | The type column in the ehr_file table represents the category or classification of the file. It is a numeric value that determines the type of electronic health record file stored in the data column. | CSV                             |
| datet                  | datetime<br>default<br>NULL | The `datet` column is a datetime field that records the date and time when a file is created or modified in the EHR system.   | CSV                             |
| data                   | longblob                    | The 'data' column in the 'ehr_file' table contains the actual electronic health record data for a specific file.  | CSV + Binary<br>Deserialization |
| last_modified_datetime | datetime<br>default<br>NULL | The last_modified_datetime column represents the date and time when the file was last modified.   | CSV                             |
| empid                  | int                         | The empid column is the unique identifier for an employee in the database. It is used to link and reference employee-related information throughout the system.   | CSV                             |

|                             |                             |   |     |
|-----------------------------|-----------------------------|---|-----|
| ident_pat_edu_rsrc          | tinyint                     | The ident_pat_edu_rsrc column is a flag that indicates whether a file is associated with patient education resources.   | CSV |
| ident_pat_edu_rsrc_datetime | datetime<br>default<br>NULL | The `ident_pat_edu_rsrc_datetime` column stores the datetime when the identification of patient education resources was done for a specific record in the `ehr_file` table. | CSV |
| locid                       | int                         | The locid column is the unique ID that identifies the location associated with the EHR file.  | CSV |
| uploaded_pat                | tinyint                     | The uploaded_pat column indicates whether the file has been uploaded for the patient or not.  | CSV |
| uploaded_pat_datetime       | datetime<br>default<br>NULL | The uploaded_pat_datetime column stores the date and time when the file was uploaded for the patient.   | CSV |
| insert_guid                 | varchar                     | The insert_guid column is a unique identifier generated during the insertion of a record into the ehr_file table.   | CSV |
| created_datetime            | datetime<br>default<br>NULL | The created_datetime column represents the date and time when the file record was created in the EHR system.  | CSV |
| sub_type                    | int                         | The sub_type column represents the subtype of the ehr file.   | CSV |

## VisualAcuityFieldDataModel Type

The VisualAcuityFieldDataModel type is used to store and represent data related to visual acuity measurements within an electronic health record (EHR) software. It includes information such as the target site being measured, the method and unit of measurement used, the status of the measurement, and the value of the measurement itself. This type allows for the standardized storage and retrieval of visual acuity data for patients. A VisualAcuityFieldDataModel is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name        | Type                       | Description  |
|--------------------|----------------------------|--|
|                    | VisualAcuityFieldDataModel | The "Value" member of the VisualAcuityFieldDataModel Type is used to store the visual acuity measurement value obtained from an eye examination.   |
| TargetSite         | TargetSiteType             | The TargetSite member of the TargetSiteType enum in the VisualAcuityFieldDataModel type is used to indicate the specific eye site being referenced in the EHR software. It can be set to either the right eye, left eye, or both eyes.   |
| TargetSite.value__ | Int32                      | The value__ member of Int32 type in the TargetSiteType enumeration is used to represent the underlying numeric value of the TargetSiteType enum member. It is an auto-generated member and is used internally by the compiler and runtime to map the enum members to their corresponding numeric values. |
| TargetSite.Right   | TargetSiteType             | The "Right" member of the TargetSiteType enum represents the right eye in the context of eye   |

|                     |                 |  |
|---------------------|-----------------|--|
|                     |                 | care data. It is used to indicate that the visual acuity measurement or data is specific to the right eye of the patient.  |
| TargetSite.Left     | TargetSiteType  | The "Left" member of the TargetSiteType enumeration in the VisualAcuityFieldDataModel represents the target site or location on the left side of the patient's body. It is used to specify that the visual acuity measurement or data pertains to the left eye of the patient in the EHR software. |
| TargetSite.Both     | TargetSiteType  | The "Both" member of the TargetSiteType enum in the VisualAcuityFieldDataModel type represents both eyes. It is used to indicate that the visual acuity measurement is applicable to both the right and left eyes.   |
| Measurement         | MeasurementType | The Measurement member of the MeasurementType type in the VisualAcuityFieldDataModel type is used to specify the type of measurement being recorded for visual acuity. It can have three possible values: Distance, Near, or Pinhole.  |
| Measurement.value__ | Int32           | The value__ member of Int32 Type in the MeasurementType Type represents the underlying integer value of the MeasurementType enumeration. It is used to store the numeric representation of the MeasurementType enum value for internal processing and comparison purposes within the EHR software. |

|                      |                 |   |
|----------------------|-----------------|---|
| Measurement.Distance | MeasurementType | The Distance member of the MeasurementType enum is used to indicate that the visual acuity measurement is taken at a distance from the patient. It is used to record and track the visual acuity of patients during eye examinations in an EHR software.                        |
| Measurement.Near     | MeasurementType | The Near member of the MeasurementType enumeration is used to specify the measurement type for near visual acuity.  |
| Measurement.Pinhole  | MeasurementType | The Pinhole member of the MeasurementType Type in the VisualAcuityFieldDataModel is used to indicate a measurement taken using a pinhole occluder.  |
| Status               | StatusType      | The Status member of the StatusType enum in the VisualAcuityFieldDataModel type is used to indicate whether the visual acuity measurement is uncorrected or corrected.  |
| Status.value__       | Int32           | The value__ member of the Int32 Type in the StatusType Type represents the underlying integer value of the StatusType enumeration. It is used to store and retrieve the numeric value associated with a particular status (e.g., Uncorrected or Corrected) in the EHR software. |
| Status.Uncorrected   | StatusType      | The "Uncorrected" member of the "StatusType" type is used to indicate that the visual acuity measurement was taken without any correction, such as glasses or contact lenses. It represents the   |



|                             |            |  |
|-----------------------------|------------|--|
|                             |            | patient's unaided or natural visual acuity.  |
| Status.Corrected            | StatusType | The Corrected member of the StatusType Type represents the status of a visual acuity measurement when it has been corrected, indicating that any visual impairments or refractive errors have been accounted for and adjusted. It is used in an EHR software to indicate that the visual acuity measurement has been corrected for optimal accuracy and to track the effectiveness of corrective measures. |
| DataFormat                  | DataType   | The DataFormat member of the DataType type in the VisualAcuityFieldDataModel is used to specify the format of the data being stored. It can either be a string or a physical quantity, indicating whether the data is a textual value or a numerical measurement.  |
| DataFormat.value__          | Int32      | The value__ member of the Int32 Type in the DataType Type is an enumeration value representing the specific data type used for storing visual acuity field data in an EHR software.  |
| DataFormat.String           | DataType   | The String member of the DataType Type is used to store textual data, such as names, descriptions, or other alphanumeric information, in the context of an EHR software.   |
| DataFormat.PhysicalQuantity | DataType   | The PhysicalQuantity member of the DataType Type represents a data type that stores a physical   |

|                       |            |   |
|-----------------------|------------|---|
|                       |            | measurement value along with its corresponding unit. It is commonly used in electronic health record (EHR) systems to capture and represent quantitative measurements such as height, weight, blood pressure, or laboratory test results.   |
| Unit                  | UnitType   | The Unit member of the UnitType enumeration in the VisualAcuityFieldDataModel type represents the unit of measurement used for visual acuity data in the EHR software. In this case, the specific unit of measurement is the FootUSOverFootUS, which indicates a measure of visual acuity in the form of a fraction.  |
| Unit.value__          | Int32      | The value__ member of the Int32 type in the UnitType enum is used to represent the underlying integer value of the UnitType enumeration. It is used internally by the software to store and retrieve the specific unit of measurement for visual acuity data.   |
| Unit.FootUSOverFootUS | UnitType   | The FootUSOverFootUS member of the UnitType enum is used to represent a unit of measurement in the context of visual acuity testing in EHR software. It specifically refers to the measurement of visual acuity using the "foot over foot" method, which is commonly used in ophthalmology to assess distance vision. |
| Method                | MethodType | The Method member of the MethodType enum in the   |

|                     |               |  |
|---------------------|---------------|--|
|                     |               | VisualAcuityFieldDataModel is used to indicate the method used to measure visual acuity in an EHR (Electronic Health Record) system.   |
| Method.value__      | Int32         | The value__ member of the Int32 Type in the MethodType Type is an enumeration value that represents the underlying integer value of the selected method for measuring visual acuity. In the case of the Eye Care EHR software, the value__ member of MethodType is used to store the selected method for measuring visual acuity, specifically the Snellen Chart method. |
| Method.SnellenChart | MethodType    | The SnellenChart member of MethodType is used to indicate that the visual acuity measurement was performed using the Snellen Chart, which is a common method used in eye care to test a patient's ability to see and identify small letters or symbols.  |
| Aid                 | AidToDistance | The Aid member of the AidToDistance Type in the VisualAcuityFieldDataModel Type is used to represent the aid or corrective measure used to achieve the specified visual acuity measurement. It could be either None, ContactLenses, or EyeGlasses, indicating whether the patient used contact lenses or eyeglasses during the visual acuity test.                       |
| Aid.value__         | Int32         | The value__ member of the Int32 Type in the AidToDistance Type is an enumeration value that  |

|                            |                  |   |
|----------------------------|------------------|---|
|                            |                  | represents the underlying integer value of the AidToDistance enumeration. It is used to store the selected aid to distance option (None, ContactLenses, or EyeGlasses) in the EHR software.   |
| Aid.None                   | AidToDistance    | The "None" member of the AidToDistance Type is used to indicate that there is no aid to distance specified for the visual acuity field data.  |
| Aid.ContactLenses          | AidToDistance    | The ContactLenses member of the AidToDistance Type is used to indicate that the patient's visual acuity measurement was taken while wearing contact lenses.   |
| Aid.EyeGlasses             | AidToDistance    | The EyeGlasses member of the AidToDistance Type is used to represent the aid to distance as Eye Glasses.  |
| AuthorDateTimeOffsetString | String           | The AuthorDateTimeOffsetString member of String Type in the VisualAcuityFieldDataModel is used to store the date and time that the visual acuity data was authored or recorded by a healthcare professional in the electronic health record (EHR) software. |
| DataCategory               | DataCategoryType | The DataCategory member of the DataCategoryType enum in the VisualAcuityFieldDataModel type is used to categorize the data related to visual acuity or refraction measurements in an EHR (Electronic Health Record) software.                               |
| DataCategory.value__       | Int32            | The value__ member of the Int32 Type in the DataCategoryType  |

|                                    |                  |   |
|------------------------------------|------------------|---|
|                                    |                  | Type is an enumeration value representing the specific category of data for an eye care measurement or observation. It is used to categorize the type of data related to visual acuity or refraction measurement in the electronic health record (EHR) software.  |
| DataCategory.VisualAcuity          | DataCategoryType | The VisualAcuity member of the DataCategoryType represents visual acuity measurements captured within an EHR software. It specifically stores data related to the clarity of a patient's vision, typically measured using an eye chart or other standardized methods.   |
| DataCategory.RefractionMeasurement | DataCategoryType | The RefractionMeasurement member of the DataCategoryType type is used to represent the category of data related to the measurement of refractive errors in the eye. This data category is commonly used in electronic health record (EHR) systems to store and analyze information about the patient's refractive status, including measurements for glasses or contact lens prescriptions. |
| ValueSetIndex                      | Int32            | The ValueSetIndex member of the Int32 type in the VisualAcuityFieldDataModel is used to reference a specific value set within the EHR software.   |
| Value                              | String           | The Value member of the VisualAcuityFieldDataModel Type represents the actual measurement value of a visual   |

|                       |                                 |   |
|-----------------------|---------------------------------|---|
|                       |                                 | acuity test result.   |
| HL7CcdMedRecFieldType | Nullable<HL7CcdMedRecFieldType> | The HL7CcdMedRecFieldType member of Nullable<HL7CcdMedRecFieldType> type is used to represent a field in an electronic health record (EHR) that corresponds to a specific medical record data category in the HL7 C-CDA standard. It allows for the categorization and classification of medical record data within the EHR system. |

## RefractionMeasurementFieldDataModel Type

The RefractionMeasurementFieldDataModel Type is used to store data related to refraction measurements in an EHR system. It includes properties such as the target site, measurement type, data value, unit, method of measurement, author and date/time information, data category, and a value set index. This Type is used for recording and tracking patient refraction measurements in order to assist with diagnosing and monitoring vision-related conditions. A RefractionMeasurementFieldDataModel is serialized as XML and then binary in the data column in the ehr\_file table.

| Member Name        | Type                                | Description  |
|--------------------|-------------------------------------|--|
|                    | RefractionMeasurementFieldDataModel | The "TargetSite" member of the RefractionMeasurementFieldDataModel type is used to represent the specific site or location on the eye where a measurement or data is taken.  |
| TargetSite         | TargetSiteType                      | The TargetSite member of TargetSiteType represents the specific site or location on the patient's eye that the refraction measurement is being performed on (either right, left, or both eyes). It is used to identify the eye(s) being measured in the RefractionMeasurementFieldDataModel within the EHR software. |
| TargetSite.value__ | Int32                               | The value__ member of the Int32 Type in the TargetSiteType Type is an enumeration value that represents the underlying integer value of a TargetSiteType enum. It is used for internal mapping or comparison purposes within the EHR software.   |
| TargetSite.Right   | TargetSiteType                      | The "Right" member of the TargetSiteType type in the Eye Care  |

|                     |                 |   |
|---------------------|-----------------|---|
|                     |                 | EHR software refers to the right eye of a patient. It is used to indicate that the corresponding measurement or data is specific to the right eye during the refraction measurement process.  |
| TargetSite.Left     | TargetSiteType  | The Left member of the TargetSiteType enum is used to represent the left eye in the context of eye care data within the EHR software.   |
| TargetSite.Both     | TargetSiteType  | The "Both" member of the TargetSiteType enum is used to indicate that the measurement or data is applicable to both eyes (right and left).  |
| Measurement         | MeasurementType | The Measurement member of MeasurementType Type in the RefractionMeasurementFieldData Model Type is used to represent various measurements related to eye care, such as the sphere, cylinder, axis, add, horizontal prism, vertical prism, and visual acuity. It is a key component in capturing and storing precise measurements of a patient's eyesight in an electronic health record (EHR) system. |
| Measurement.value__ | Int32           | The value__ member of the Int32 Type in the MeasurementType Type is an underlying value that represents the specific measurement type. It is used to uniquely identify and differentiate between different types of measurements, such as sphere, cylinder, axis, add, etc. in the context of the EHR software.   |



|                             |                 |  |
|-----------------------------|-----------------|--|
| Measurement.Sphere          | MeasurementType | The Sphere member of the MeasurementType Type represents the measurement of the spherical power of a lens used in eye care. It is used to determine the refractive error of a person's eye, specifically the degree of nearsightedness or farsightedness.  |
| Measurement.Cylinder        | MeasurementType | The Cylinder member of the MeasurementType type is used to represent the measurement of cylindrical power in an Eye Care record. It is used to capture data related to astigmatism, which is a common eye condition where the cornea is not perfectly spherical, resulting in blurry or distorted vision. This measurement helps eye care practitioners diagnose and prescribe the correct corrective lenses or treatment for patients with astigmatism. |
| Measurement.Axis            | MeasurementType | The Axis member of the MeasurementType Type in the RefractionMeasurementFieldData Model is used to represent the angle or orientation of the astigmatism in the eye.   |
| Measurement.Add             | MeasurementType | The "Add" member of the MeasurementType type in the RefractionMeasurementFieldData Model is used to represent the add power in a prescription for eyeglasses or contact lenses. The add power is the additional lens power needed for near vision correction in individuals with presbyopia.   |
| Measurement.HorizontalPrism | MeasurementType | The HorizontalPrism member of the MeasurementType type in the EHR software is used to represent  |

|                                  |                 |  |
|----------------------------------|-----------------|--|
|                                  |                 | the measurement of the horizontal prism power or displacement in an eyeglass prescription.   |
| Measurement.HorizontalPrismBase  | MeasurementType | The HorizontalPrismBase member of the MeasurementType Type is used to represent the base direction of a horizontal prism measurement in an eye care record. It specifically indicates whether the base of the prism is located on the temporal side (Base Out) or the nasal side (Base In) of the eye. |
| Measurement.VerticalPrism        | MeasurementType | The VerticalPrism member of the MeasurementType Type is used to represent the measurement of the vertical prism component in an eye examination. It is used to assess and correct for any vertical imbalance in the patient's visual system.   |
| Measurement.VerticalPrismBase    | MeasurementType | The VerticalPrismBase member of the MeasurementType type represents the base direction of a vertical prism measurement. In the context of EHR software, it is used to record the direction (up or down) in which a prism is oriented when measuring the refractive power of the patient's eyes.        |
| Measurement.DistanceVisualAcuity | MeasurementType | The DistanceVisualAcuity member of the MeasurementType Type represents the measurement of a patient's visual acuity at a distance. It is used to record and track the patient's ability to see objects clearly at various distances.   |
| Measurement.NearVisualAcuity     | MeasurementType | The NearVisualAcuity member of the MeasurementType Type in the Eye Care EHR software is used to  |

|                                 |                 |   |
|---------------------------------|-----------------|---|
|                                 |                 | represent the measurement of visual acuity for near vision. It is used to record the patient's ability to see objects clearly at close distances, typically measured in terms of the smallest line of text that can be read without visual assistance.  |
| Measurement.PinholeVisualAcuity | MeasurementType | The PinholeVisualAcuity member of the MeasurementType type is used to record the visual acuity measurement obtained when a patient is looking through a pinhole. This measurement is used to assess the clarity of the patient's vision and can help detect refractive errors and other vision abnormalities. |
| Data                            | DataType        | The Data member of DataType Type in the RefractionMeasurementFieldData Model is used to store numerical or textual data related to a specific measurement or target site in the Eye Care EHR software.  |
| Data.value__                    | Int32           | The value__ member of the Int32 type in the DataType enumeration is an automatically generated member by the compiler, which assigns a unique integer value to each member of the DataType enumeration. This member is used for internal representation and comparison purposes within the EHR software.      |
| Data.String                     | DataType        | The String member of the DataType type is used to store textual data in the EHR software.   |
| Data.PhysicalQuantity           | DataType        | The PhysicalQuantity member of the DataType enum represents a   |

|              |          |  |
|--------------|----------|--|
|              |          | value that has a physical quantity associated with it. It is used to store measurements or numerical values that have a specific unit of measurement, such as weight or height.  |
| Unit         | UnitType | The Unit member of the UnitType enum in the RefractionMeasurementFieldData Model type represents the unit of measurement for a refraction value. It is used to specify the type of unit, such as diopters (Diop), degrees (Degree), radians (Rad), prism diopters (PDiop), or foot over foot (FootUSOverFootUS). |
| Unit.value__ | Int32    | The value__ member of the Int32 Type in the UnitType Type is an integer value that represents the specific unit of measurement used in the Eye Care data. It is used to store the numerical value associated with the chosen unit of measurement, such as diop, degree, rad, pdiop, footUSOverFootUS, or none.   |
| Unit.None    | UnitType | The None member of the UnitType enum represents a lack of unit measurement. It may be used when no specific unit is applicable or needed for a particular measurement in the EHR software.   |
| Unit.Diop    | UnitType | The "Diop" member of the UnitType enum is a unit of measurement used in ophthalmology to represent the power of a lens or a refractive error. It is commonly used in electronic health record (EHR) software to record and display measurements related to eye care,   |

|                       |            |   |
|-----------------------|------------|---|
|                       |            | such as the refractive power of eyeglass prescriptions or the measurement of astigmatism.   |
| Unit.Degree           | UnitType   | The "Degree" member of the "UnitType" type in the EHR software is used to represent the unit of measurement for angles or rotations. It is used in the context of measuring the angle of rotation of the eye during a refraction measurement.   |
| Unit.Rad              | UnitType   | The Rad member of the UnitType Type is used to represent the unit of measurement as Radians.  |
| Unit.PDiop            | UnitType   | The PDiop member of the UnitType type is used to represent the unit of measurement for per diopter (PDiop) in the context of refraction measurement data. It indicates that the value represents the lens power in diopters.  |
| Unit.FootUSOverFootUS | UnitType   | The member "FootUSOverFootUS" of the "UnitType" enum represents the unit of measurement for a value in feet, specifically for the measurement of height or length. It is used to record data related to the height or length of a patient in the electronic health record (EHR) software.                               |
| Method                | MethodType | The Method member of the MethodType enum in the RefractionMeasurementFieldData Model type represents the method or technique used to perform the measurement of the refraction. It is used to specify the specific procedure or equipment used to obtain the refraction measurement data in an electronic health record |

|                            |            |  |
|----------------------------|------------|--|
|                            |            | (EHR) system.  |
| Method.value__             | Int32      | The value__ member of the Int32 Type in the MethodType Type is used as an internal representation of the MethodType enum values. It serves as a unique identifier for each enum value, allowing for easier comparison and manipulation of the enum values within the EHR software.   |
| Method.ManifestRefraction  | MethodType | ManifestRefraction is a method used in Eye Care to measure the refractive error of a patient's eye without the use of any additional lenses or equipment. It involves the patient reading letters or viewing images on a chart at a distance and the measurements are then recorded to determine the appropriate corrective lenses needed.   |
| Method.ObjectiveRefraction | MethodType | The ObjectiveRefraction member of the MethodType type is a method used in EHR software to perform an objective measurement of a patient's refractive error. It uses advanced technology and devices to accurately measure the patient's prescription for eyeglasses or contact lenses without relying on the patient's subjective input. The results obtained from ObjectiveRefraction are typically more precise and objective compared to other methods of measuring refractive error. |
| Method.Retinoscopy         | MethodType | Retinoscopy is a method used in eye care to determine a patient's refractive error by shining a light into their eyes and observing the  |

|                              |            |   |
|------------------------------|------------|---|
|                              |            | reflection. It is commonly used to assess the patient's visual acuity and determine the appropriate prescription for glasses or contact lenses. The Retinoscopy member of the MethodType Type in the EHR software is used to record and store data related to retinoscopy measurements performed during an eye examination.                 |
| Method.CycloplegicRefraction | MethodType | The CycloplegicRefraction member of the MethodType type is used to indicate a specific method of performing a refraction measurement in Eye Care. It is used with EHR software to represent the use of cycloplegia, which is the paralysis of the ciliary muscle in the eye, in order to obtain accurate objective refraction measurements. |
| Method.OverRefraction        | MethodType | The OverRefraction member of MethodType is used in the context of an EHR software to represent a method of measuring the refractive error of the eye after an initial refraction has already been performed. It is used to determine the additional correction needed for the patient's vision beyond the initial refraction.               |
| Method.AutoRefractor         | MethodType | The AutoRefractor member of the MethodType Type is used to record measurements obtained from an automated refractor.  |
| Method.Lensometer            | MethodType | The Lensometer member of the MethodType Type is a method used in EHR software to measure the power of eyeglass lenses.  |
| Method.Phoropter             | MethodType | The Phoropter member of the MethodType type is used in the Eye  |

|                                    |                  |   |
|------------------------------------|------------------|---|
|                                    |                  | Care EHR software to record the measurement method of using a phoropter device for performing refraction tests.   |
| AuthorDateTimeOffsetString         | String           | The AuthorDateTimeOffsetString member in the RefractionMeasurementFieldData Model type is used to store the date and time when the measurement data was authored or recorded by a healthcare provider in the electronic health record (EHR) system. |
| DataCategory                       | DataCategoryType | The DataCategory member of the DataCategoryType type in the RefractionMeasurementFieldData Model type is used to categorize the type of data being represented, specifically for visual acuity and refraction measurements.                         |
| DataCategory.value__               | Int32            | The value__ member of the Int32 Type in the DataCategoryType Type represents the underlying integer value of the DataCategoryType enum. It is used to uniquely identify different categories of data within the EHR software.                       |
| DataCategory.VisualAcuity          | DataCategoryType | The VisualAcuity member of the DataCategoryType enum is used to categorize data related to visual acuity measurements, which typically assess the clarity of a patient's vision.  |
| DataCategory.RefractionMeasurement | DataCategoryType | The RefractionMeasurement member of the DataCategoryType Type is used to represent data related to a patient's refraction measurement. This may include information about the patient's visual acuity, prescription for                             |



|                       |                                 |   |
|-----------------------|---------------------------------|---|
|                       |                                 | corrective lenses, and other measurements related to their eye health.  |
| ValueSetIndex         | Int32                           | The ValueSetIndex member of type Int32 in the RefractionMeasurementFieldData Model is used to associate the data value with a pre-defined set of values or codes. It may be used to reference a specific index or identifier within a value set that defines valid values for the measurement being recorded in the EHR software.                       |
| Value                 | String                          | The Value member of String Type in the RefractionMeasurementFieldData Model is used to store the actual measurement or value obtained for the refraction measurement field.   |
| HL7CdaMedRecFieldType | Nullable<HL7CdaMedRecFieldType> | The `HL7CdaMedRecFieldType` member of type `Nullable<HL7CdaMedRecFieldType>` in the `RefractionMeasurementFieldData Model` type is used to represent a field type specific to the HL7 C-CDA (Consolidated Clinical Document Architecture) medical record standard. It is used to store or identify the type of the field within the HL7 C-CDA document. |