

香港特別行政區政府 HKSARGOVT

Developers' Quick Guide
eHealth Chinese Medicines Prescribing Records Upload
(FHIR)

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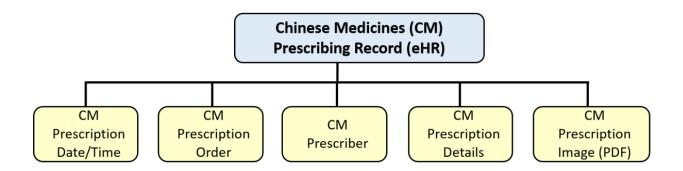
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### 1. Purpose

This document is intended for Information Technology personnel involved in the development of programmes to upload data from their Electronic Medical Record (EMR) system to the electronic Health Record Sharing System (eHRSS).

The technical interface requirements for implementing Health Level Seven (HL7) Fast Healthcare Interoperability Resources (FHIR) Release 4 (R4) for uploading the Chinese Medicines Prescribing Records to eHRSS are provided below. Readers who prefer more indepth study of the HL7 FHIR (R4B) standards and content standards may refer to the HL7 FHIR website <a href="https://www.hl7.org/fhir/">https://www.hl7.org/fhir/</a> and the eHR Content Standards Guidebook on the eHealth official website <a href="https://www.ehealth.gov.hk/">https://www.ehealth.gov.hk/</a> for more detail.

### 2. Data Components



#### **CM Prescription Date/Time**

The date and time when the Chinese medicines prescription was issued.

#### **CM Prescription Order**

The information of the healthcare institution where the Chinese medicines prescription order was issued.

#### **CM Prescriber**

The name of the healthcare professional who issued the Chinese medicines prescription.

#### **CM Prescribing Details**

The information of Chinese medicines details and administration methods of the prescription.

#### **CM Prescription Image (PDF)**

The PDF format of the Chinese medicines prescription order.

# 3. Upload Standards

### **Supported Data Standards Level**

The Chinese Medicines Prescribing data domain (CMRXO) supports Level 2 (including text / PDF report) or Level 3 data standards only.

## **Examples of Chinese Medicines Prescribing Scenarios**

Below are the examples depicting the different details in Level 2 and Level 3 Chinese Medicines Prescribing records:

| Data field  | Level 2 data          | Level 3 data          |
|---|-----------------------|-----------------------|
| Chinese medicines prescription datetime                           | 2009-11-              | 2009-11-              |
|   | 11T00:00:00.000+08:00 | 11T00:00:00.000+08:00 |
| Chinese medicines prescribing institution identifier              | 100000000             | 100000000             |
| Chinese medicines prescribing institution long name               | 中醫堂中醫診所               | 中醫堂中醫診所               |
| Chinese medicines prescribing institution local name              | 中醫堂                   | 中醫堂                   |
| Chinese medicines prescription order number                       | PX01162001570         | PX01162001570         |
| Chinese medicine disease local description                        | 腰痛                    | 咳嗽病                   |
| Chinese medicines prescriber's English full name                  | Chan Tai Man          | Chan Tai Man          |
| Chinese medicines prescriber's Chinese full name                  | 陳大文                   | 陳大文                   |
| Prescribed Chinese medicines dose group number                    | 1                     | 1                     |
| Chinese medicines type code                                       | DP                    | DG                    |
| Prescribed Chinese medicines sequence number                      | 1                     | 1                     |
| Prescribed Chinese medicines - recognised terminology name        |                       | НКСТТ                 |
| Prescribed Chinese medicines identifier - recognised terminology  |                       | 9812009               |
| Prescribed Chinese medicines description - recognised terminology |                       | 製半夏(薑半夏) - 顆粒劑 (沖劑)   |
| Prescribed Chinese medicines code - local terminology             |                       | 5ZBX501               |
| Prescribed Chinese medicines description - local terminology      | 黨參                    | 薑半夏                   |
| Prescribed Chinese medicines dose value                           | 10                    | 2                     |
| Prescribed Chinese medicines dose unit code                       |                       | 1                     |

| Data field  | Level 2 data                      | Level 3 data                        |
|---|-----------------------------------|-------------------------------------|
| Prescribed Chinese medicines dose unit description                                |                                   | 克                                   |
| Prescribed Chinese medicines dose unit local description                          | 克                                 | 克(濃)                                |
| Prescribed Chinese medicines dose unit remarks                                    |                                   | 9050671                             |
| Prescribed Chinese medicines dose instruction                                     | 服用2日,每日服用1<br>劑。清水三碗煎至一<br>碗,飯後服。 | 服用 2 日,每日服用 2<br>次,每次 1 包,共 4<br>包。 |
| Prescribed Chinese medicines route of medication administration code              |                                   | ORL                                 |
| Prescribed Chinese medicines route of medication administration description       |                                   | 口服                                  |
| Prescribed Chinese medicines route of medication administration local description | 口服                                | 口服                                  |

#### **Modes of Data Upload**

HCP can upload clinical data in TWO upload modes according to needs. Please refer to the relevant sections in the General Guide.

- **Data materialization (DM)** mode is to upload all of an HCR's clinical data of a specific sharable dataset (data domain) that exists in the EMR system to eHRSS. DM aims for the first data upload for an HCR who newly given sharing consent to the HCP; and
- Incremental Load (INC) mode is for HCP to upload all newly created, amended and cancelled clinical data of a specific sharable data from all HCRs in the EMR system to eHRSS in ONE batch since the last data upload.

#### **Recognised Terminology**

- The recognised terminology sets adopted for the eHR Chinese Medicines Prescribing Records includes:
  - HKCTT
  - pCM
- The clinical terminology and code sets used are provided in the **self-service kit**. For the latest codes used, please refer the eHR code sets published on the eHealth official website.

#### **Message Standards**

- FHIR R4 message standards in JSON format are adopted for CM Prescribing Records upload to eHealth.
- Resource and Element names are case-sensitive

#### **Encoding**

UTF-8 encoding is used for eHR Clinical data exchange.

## 4. Artifacts Summary

This section provides a list of the FHIR artifact defined as part of this implementation guide:

| Resource used      | Definition   | Cardinality |
|--------------------|--|-------------|
| eHRSS Bundle       | This profile represents the constraints and localization     | 11          |
|                    | applied to the Bundle resource by eHRSS                      |             |
| eHRSS Composition  | This profile represents the constraints and localization     | 11          |
|                    | applied to the Composition resource by eHRSS                 |             |
| eHRSS Patient      | This profile represents the constraints and localization     | 11          |
|                    | applied to the Patient resource by eHRSS.                    |             |
| eHRSS Author       | This profile represents the constraints and localization     | 11          |
| Organization       | applied to the Organization Resource referenced by           |             |
|                    | Composition Resource.  |             |
| eHRSS Organization | This profile represents the constraints and localization     | 0*          |
|                    | applied to the Organization Resource referenced by           |             |
|                    | MedicationRequest Resource.                                  |             |
| eHRSS              | This profile defines a MedicationRequest structure which     | 1*          |
| MedicationRequest  | includes eHR Chinese Medicines Prescribing data              |             |
| eHRSS Medication   | This profile defines a Medication structure which includes   | 1*          |
|                    | eHR Chinese Medicines item                                   |             |
| eHRSS              | This profile defines a DocumentReference structure which     | 11          |
| DocumentReference  | includes eHR Chinese Medicines Presrcibing data              |             |
| eHRSS Encounter    | This profile defines an Encounter structure which related to | 0*          |
|                    | the prescribing order  |             |

#### Notes:

The following conventions are used for the specifications described in this document:

Constants: **Bolded** values are constants or fixed values.

*E.g.*: *Example values for illustration.* 

[...]: Data variables "...": Data values.

"M/O" Indicates if the data field is Mandatory (M) or Optional (O). M\* or O\* denotes

conditional Mandatory or Optional, please refer to Remarks for rules

NA: Data Field in concern is not used.

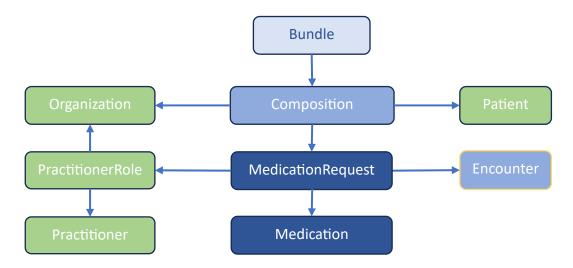
[S]: Must Support

### 5. Specification of Data uploaded

The section describes the format and data required for the data contributed to eHealth. Unused FHIR message items and those not processed by eHRSS are not listed below. Readers may refer to the HL7 (HK) website for the full HL7 FHIR R4 message specifications if required.

## 5.1 Composition of HL7 FHIR Message

The CM Prescribing Records are structured with the HL7 FHIR components (Resources) and hierarchy as specified below.



**Bundle Resource** (Single occurrence in each FHIR message bundle)

• Identify the container type for the collection of data included in the bundle. The resource composition and data contents are determined by the Bundle Type. For CM Prescribing Records data upload, the following resources are included in the bundle.

#### **Composition Resource** (Single occurrence for each bundle)

 Indicate a composition of data or document are collected in the message bundle. For "document" type of bundle, the "Composition Resource" must be the first resource to be included.

MedicationRequest Resource (Multiple occurrences are allowed in a bundle)

Contains the list of CM Prescribing records based on the mode of upload.

### Medication Resource (Single occurrences are allowed for each MedicationRequest)

Contains the list of CM Prescribing records based on the mode of upload.

#### PractitionerRole Resource (Single occurrence for each MedicationRequest)

Contains the reference to Prescribing institution and prescriber

#### Practitioner Resource (Single occurrence for each PractitionerRole)

Contains the prescriber 's information

### Organization Resource (Multiple occurrence for each Bundle)

- Institution(s) (HCP) authored the upload CM prescribing records
- Contains the prescribing institution information

#### Patient Resource (Single occurrence for each Bundle)

 Contains the demographics data of the healthcare recipient (HCR) who has the CM Prescribing record.

#### **Encounter Resource** (Single occurrence for each **Medication Order**)

• Contains the encounter information for each CM Prescribing record.

### 5.2 Data Elements in the Bundle Resource

A bundle is a collection of resources. For the type of "document" bundle, the following rules should be fulfilled.

+ Rule: A document must have an identifier with a system and a value

The below table listed data elements in the Bundle Resource which identifies the beginning of the container and the collection of data resources are all included under [resource.entry] in the bundle.

| JSON Name    | Data Value  | FHIR Data Type<br>(Max Length) | Remarks  | M/0 |
|--------------|---|--------------------------------|--|-----|
| resourceType | Name of the current resource  | string(6)                      | Fixed value: "resourceType":"Bundle"   | М   |
| id           | Resource id which is a logic id to identify the artifact  A UUID represented as a URI (RFC 4122 )  Please see reference website in appendix | uuid                           | E.g.<br>c757873d-ec9a-4326-a141-556f43239520   | М   |
| identifier   | Persistent identifier for the resource  UUID/OID for Bundle   | Identifier                     | E.g.  "identifier" : {  "system" : "urn:ietf:rfc:3986",  "value" : "urn:uuid:0c3151bd-1cbf-4d64- b04d-cd9187a4c6e0"  } | М   |
| type         | The type is always "document"   | code                           | Fixed value: "type":"document"   | М   |

| JSON Name        | Data Value  | FHIR Data Type<br>(Max Length) | Remarks   | M/0 |
|------------------|---|--------------------------------|---|-----|
| timestamp        | When the bundle was assembled [current time]  | instant                        | In format: YYYY-MM-DDThh:mm:ss.sss+zz:zz  E.g. "timestamp": "2024-03- 01T15:04:48.865+08:00"  | M   |
| entry<br>fullUrl | Resources included in this bundle are collected under 'entry'  Each resource is identified by a uri  A UUID represented as a URI (RFC 4122) | BackboneElement<br>uri         | URI for UUID/OID  HL7 FHIR Resources that collected in the CM Prescribing record upload Bundle include:  Composition Patient MedicationRequest Medication PractitionerRole Organization Practitioner Encounter  E.g. "fullUrl": "urn:uuid:21c6828c-b175-4a3b-b6de-6eaf69335021" | M   |
| resource         | A document must have a<br>Composition as the first<br>resource. Please refer to<br>Composition resource<br>requirements                     | BackboneElement<br>.Resource   | The 1st resource must be "Composition" resource.  | M   |

# 5.3 Data Elements in the Composition Resource

The Composition Resource identifies whether the upload package includes list of CM Prescribing records in this bundle.

| JSON Name    | Data Value  | FHIR Data<br>Type (Max<br>Length) | Remarks  | /O | Delete<br>scenar<br>ios |
|--------------|---|-----------------------------------|--|----|-------------------------|
| resourceType | Resource name   | string (11)                       | Fixed value: "resourceType":" Composition"                 | М  |                         |
| id           | Resource id which is a logic id to identify the artifact  A UUID represented as a URI (RFC 4122)  Please see reference website in | uuid                              | E.g.<br>urn:uuid: 30551ce1-5a28-4356-b684-<br>1e639094ad4d | M  | М                       |

| JSON Name   | Data Value  | FHIR Data<br>Type (Max<br>Length)                              | Remarks   | M<br>/0 | Delete<br>scenar<br>ios |
|---|---|--|---|---------|-------------------------|
| 99999999-<br>ComplianceLeve<br>I                  | [Compliance Level]  | url<br>string(1)   | Permissible Values: 2,3  E.g. "extension": [ {   "url": "[eHR FHIR URL]/999999999999999999999999999999999999                    | M       | М                       |
| extension<br>99999999-<br>DomainVersion           | [Domain version] The version of this interface  | url<br>string(11)  | Fixed value: "eHRSS-1.1.0" E.g.{ "url": "[eHR FHIR URL]/99999999- DomainVersion", "valueString": "eHRSS-1.1.0"}                 | M       | М                       |
| extension<br>99999999-<br>UploadMode              | [Upload Mode]   | extension<br>url<br>string(5)                                  | Permissible values:  NBL: Non Bulk load  E.g. { "url": "[eHR FHIR URL]/999999999999999999999999999999999999                     | M       | М                       |
| 99999999-<br>SendingLocation                      | [Sending Location Code] A code agreed between eHRSS and the HCP which indicates the location where the data is sending from | extension<br>url<br>string(20)                                 | Use [HCP ID] if sending location cannot be provided.  E.g. { "url": "[eHR FHIR URL]/999999999999999999999999999999999999        | 0       | 0                       |
| status  | The status is always "final". Other codes are not accepted by eHRSS.  | string(5)  | Fixed value: "final"  | М       | М                       |
| type.coding.syst<br>em<br>type.coding.disp<br>lay | Composition type  A coding object is required.  | CodeableC<br>oncept<br>coding.syst<br>em<br>coding.disp<br>lay | Fixed value: "type": {   "coding": [   {   "system": "[eHR FHIR URL]",   "display": "Hong Kong eHR Healthcare   Document"   }]} | М       | M                       |

| JSON Name             | Data Value  | FHIR Data   | Remarks  | М  | Delete        |
|-----------------------|---|---|--|----|---------------|
|                       |   | Type (Max<br>Length)  |  | /0 | scenar<br>ios |
| subject.referenc<br>e | [resource.id] of Patient Resource included in the same bundle  HCR has been prescribed in this bundle                         | Reference(<br>Patient)                                      | In format: Patient/ <resource id="">  E.g. "subject": { "reference": "Patient/6e480262-978c-49f0-a793-468293932fc2" } • This resource id is the same value of the Patient resource id • The Patient Resource contains data of the HCR</resource> | M  | M             |
| date                  | Message generation time  eHRSS will use this value and [record key] for overriding records uploaded in eHRSS                  | dateTime(2<br>5)  | In format: YYYY-MM-DDThh:mm:ss.sss+zz:zz  E.g. "date":"2022-12- 01T15:04:48.000+08:00"   | M  | М             |
| author                | Author of this composition  Name of healthcare institution who created/update the record  eHRSS will not interpret this value | Reference(<br>Organizatio<br>n)                             | Fixed value: Organization/author  E.g. "author": [{ "reference" : "Organization/3b3703a9-7a26-427c-9352-4e41f046d85e"}]  • This resource id is the same value of the Organization resource id  | М  | М             |
| title                 | Title of this composition  eHR will not interpret this value  | string(33)  | Fixed value: title:"Hong Kong eHR Healthcare Document"   | М  | M             |
| section               | Composition is broken into sections   | BackboneEl<br>ement   | -  | М  | М             |
| title                 | A human readable label for this section   | string(255)   | Fixed value: title: "Chinese Medicines Prescribing Records"  | М  | М             |
| code                  | A code identifying the kind of content contained within the section. This must be consistent with the section title.          | CodeableC<br>oncept<br>coding.syst<br>em<br>coding.cod<br>e | Fixed value: "code": { "coding": [ { "system": "[eHR FHIR URL]/datadomain", "code": "CMRXO" }]}  | M  | М             |

| JSON Name  | Data Value                                     | FHIR Data<br>Type (Max<br>Length)                                   | Remarks   | M<br>/0 | Delete<br>scenar<br>ios |
|--|--|---|---|---------|-------------------------|
| 99999999-<br>TransactionType                             | [Transaction Type]<br>Insert / Update / Delete | BackboneEl<br>ement.Refe<br>rence.Exte<br>nsion<br>string(1)        | Permissible Values: I: Insert U: Update D: Delete  E.g.: "extension": [ { "url": "[eHR FHIR URL]/999999999999999999999999999999999999   | М       | M                       |
| 99999999-<br>LastUpdateDate<br>Time                      | [Last Update Date Time]                        | BackboneEl<br>ement.Refe<br>rence.Exte<br>nsion<br>dateTime(2<br>9) | In format: YYYY-MM-DDThh:mm:ss.sss+zz:zz E.g: "2019-05-31T08:30:00.000+08:00"  E.g: "extension": [ { "url": "[eHR FHIR URL]/99999999- LastUpdateDateTime", "valueDateTime": "[Last Update Date Time]" }]      | М       | M                       |
| 99999999-<br>TransactionDate<br>Time                     | [Transaction Date Time]                        | BackboneEl<br>ement.Refe<br>rence.Exte<br>nsion<br>dateTime(2<br>9) | In format: YYYY-MM-DDThh:mm:ss.sss+zz:zz E.g. "2019-05-31T08:30:00.000+08:00" E.g. "extension": [ {   "url": "[eHR FHIR URL]/99999999- TransactionDateTime",   "valueDateTime": "[Transaction Date Time]" } ] | M       | М                       |
| 99999999-<br>RecordCreateDa<br>tetime                    | [Record Create Datetime]                       | BackboneEl<br>ement.Refe<br>rence.Exte<br>nsion<br>dateTime(2<br>9) | In format: YYYY-MM-DDThh:mm:ss.sss+zz:zz E.g."2021-01-25T08:30:00.000+08:00"  E.g. "extension": [ {   "url": "[eHR FHIR URL]/99999999- RecordCreateDatetime",   "valueDateTime": "[Record Create Datetime]" } | 0       | 0                       |
| extension<br>99999999-<br>RecordCreateIns<br>tIdentifier | [Record Create Institution Identifier]         | BackboneEl<br>ement.Refe<br>rence.Exte<br>nsion<br>string(10)       | E.g.  "extension": [  {   "url": "[eHR FHIR URL]/999999999999999999999999999999999999   | 0       | 0                       |

| JSON Name  | Data Value  | FHIR Data   | Remarks   | M  | Delete        |
|--|---|---|---|----|---------------|
|  |   | Type (Max<br>Length)  |   | /0 | scenar<br>ios |
| extension<br>99999999-<br>RecordCreateIns<br>tName       | [Record Create Institution<br>Name]   | BackboneEl<br>ement.Refe<br>rence.Exte<br>nsion<br>string(255)      | E.g.:  "extension": [  {  "url": "[eHR FHIR URL]/999999999999999999999999999999999999   | 0  | 0             |
| extension<br>99999999-<br>RecordLastUpda<br>teDatetime   | [Record Last Update Datetime]   | BackboneEl<br>ement.Refe<br>rence.Exte<br>nsion<br>dateTime(2<br>9) | In format: YYYY-MM-DDThh:mm:ss.sss+zz:zz E.g. 2017-03-04T08:30:00.000+08:00  E.g. "extension": [ {   "url": "[eHR FHIR URL]/99999999- RecordLastUpdateDatetime",   "valueDateTime": "[Record Last Update Datetime]" }]  | 0  | 0             |
| extension<br>99999999-<br>RecordUpdateIn<br>stIdentifier | [Record Update Institution Identifier]  | BackboneEl<br>ement.Refe<br>rence.Exte<br>nsion<br>string(10)       | E.g.  "extension": [  {     "url": "[eHR FHIR URL]/999999999999999999999999999999999999   | 0  | 0             |
| extension<br>999999999-<br>RecordUpdateIn<br>stName      | [Record Update Institution<br>Name]   | BackboneEl<br>ement.Refe<br>rence.Exte<br>nsion<br>string(255)      | E.g.  "extension": [ {  "url": "[eHR FHIR URL]/999999999999999999999999999999999999   | 0  | 0             |
| identifier   | [Record key]  | string(40)  | E.g.  "identifier": {  "system": "[HCP FHIR URL]/Recordkey",  "value": "[Record key]"  }  | M  | M             |
| entry DocumentReferen                                    | A reference to data that supports this section  **Each entry represents each MedicationRequest record | Reference(<br>Medication<br>Request)                                | Reference Format: MedicationRequest/ <resource id="">  This resource id is the same value of the MedicationRequest resource id  The MedicationRequest Resource contains data of the HCR 's list of CM Prescribing records are included in this bundle.</resource> | M  | М             |

| JSON Name  | Data Value  | FHIR Data          | Remarks   | М  | Delete |
|------------|---|--------------------|---|----|--------|
|            |   | Type (Max          |   | /0 | scenar |
|            |   | Length)            |   |    | ios    |
| identifier | [Record key]  | string(40)         | E.g.  "identifier": {  "system": "[HCP FHIR URL]/Recordkey",  "value": "[Record key]"  }  | M  | Μ      |
| entry      | A reference to data that supports this section  **Each entry represents each CMRXO PDF record | Reference(<br>100) | Reference Format: DocumentReference/ <resource id="">  • This resource id is the same value of the DocumentReference resource id</resource> | M  | M      |

# 5.4 Data Elements in the Patient Resource

The Patient Resource provides the patient identifier referenced in the other Resources to identify the patient whom these CMRXO data belong to. This resource also contains the basic demographic data (major keys) used for the validation of the HCR's identity.

| JSON Name              | Data Field  | FHIR Data<br>Type (Max<br>Length) | Remarks  | M/O | delete |
|------------------------|---|-----------------------------------|--|-----|--------|
| resourceTyp<br>e       | Resource name   | string(7)                         | Fixed value: "Patient"   | М   | М      |
| id                     | [resource id] reference by Composition resource  A UUID represented as a URI (RFC 4122)  Please see reference website in appendix | string(45)                        | This id identifies the patient / HCR whose records are included in the current bundle. It is used in [subject.reference] in the Composition Resources to identify the concerned patient. | М   | M      |
| identifier             | eHR number for this patient   | identifier                        | There are always 2 entries for Patient Resource [identifier.] One for eHR number and one for document number/ID.   |     |        |
| type.codin<br>g.system | Link to document type coding system   | string(255)                       | Fixed value:"[eHR FHIR URL]/typeofID-ext"  | М   | M      |
| type.codin<br>g.code   | identifier type code  | string(5)                         | Fixed value: "EHRNO"   | М   | М      |
| value                  | [eHR number] A unique HCR identifier assigned by eHRSS.   | integer(12)                       | Fixed length: <b>12</b> e.g. 201000000001  | M   | M      |
| identifier             | Document type and HKIC for this patient   | identifier                        |  |     |        |
| type.codin<br>g.system | Link to document type coding system   | string(255)                       | Fixed value:"[eHR FHIR URL]/typeofID-ext"  | М   | М      |
| type.codin<br>g.code   | [Type of identity document]<br>eHRSS document type code which is<br>used for registration   | string(5)                         | Refer to the document type code set provided in the <b>self-service kit</b> or the eHRSS official website for the most updated code set.   | M   | M      |

| JSON Name | Data Field   | FHIR Data<br>Type (Max<br>Length) | Remarks  | M/O | delete |
|-----------|--|-----------------------------------|--|-----|--------|
| value     | Identity Document number of the type of document as specified above  | string(12)                        | In Format:  If [document type] is ID, BC, CD, ECID,  format of the document number is:   | M   | M      |
|           | If document type ="ID" or "CD" or "BC" or "ECID", the Identity Document Number will comply with the HKID format, else it will be of free text format |                                   | AANNNNNC or ANNNNNC where: • C is the check digit • All Uppercase  |     |        |
| name      | Patient's name   | At least [nam                     | ne.family] or [name.given] will be provided  |     |        |
| family    | [English surname] Patient's surname in English   | string(40)                        | Mandatory if [name.text] and [name.give] are blank; else Optional  | M*  | M*     |
|           | For single name cases, the single name can be specified in either [English surname] or [English given Name]  |                                   | All Uppercase letters  |     |        |
| given     | [English given name] Patient's given name in English   | string(40)                        | Mandatory if [name.text] and [name.family] are blank; else Optional  All Uppercase letters   | M*  | M*     |
| text      | [English full name] Patient's full name in English   | string(100)                       | Mandatory if [name.family] and [name.given] are blank;else Optional  | M*  | M*     |
|           |  |                                   | In format:<br>[name.family] + [,] + 1 white space +<br>[name.given]  |     |        |
|           |  |                                   | <ul> <li>All Uppercase letters</li> <li>If HCR has either English surname<br/>or given name stored in local EMR<br/>system, full name should be filled.</li> </ul> |     |        |
| gender    | [sex]<br>Gender of the patient   | code(7)                           | Permissible Values:  male female   | М   | М      |
|           | eHR will convert the FHIR gender to<br>eHR [Sex] according to the Section 8<br>Mapping table   |                                   | <ul><li>unknown</li><li>E.g.:<br/>"gender": "[Sex]"</li></ul>  |     |        |
| birthdate | [Date of birth] Date of birth of the patient as indicated on the patient's identity document   | date(10)                          | In format: YYYY-MM-DD  E.g.: "birthDate": "[Date of birth]"  | М   | М      |
|           |  |                                   | If date is exact to 'Year' (e.g. 2010), the unknown month and day should be filled with '01-01'. Example: "2010-01-01".  |     |        |
|           |  |                                   | If date is exact to 'Month' (e.g. 2011-<br>12), the unknown day should be filled<br>with '01'. Example: "2011-12-01".  |     |        |

# 5.5 Data Elements in the Organization resource

This Organization Resource entry identifies HCP as the source of data uploading and contains only constant values.

| JSON Name    | Data Value   | FHIR Data<br>Type | Remarks   | M/O | Delet<br>e<br>Scena<br>rio |
|--------------|--|-------------------|---|-----|----------------------------|
| resourceType | Resource name  | string (12)       | Fixed value: "Organization"   | М   | М                          |
| id           | [resource id] reference by Composition resource  A UUID represented as a URI (RFC 4122 )  Please see reference website in appendix | string (45)       | The resource id identifies the Healthcare Institution relevant to the Composition resource. | М   | Μ                          |
| name         | [Healthcare institution long name]  eHRSS will not interpret the value   | string (255)      |   | M   | М                          |

This Organization Resource entry identifies HCP which has the role to prescribe the medication order.

| JSON Name        | Data Value  | FHIR Data<br>Type | Remarks   | L2<br>M/O | L3<br>M/O | Delete<br>Scenar<br>io |
|------------------|---|-------------------|---|-----------|-----------|------------------------|
| resourceType     | Resource name   | string (12)       | Fixed value: "Organization"   | М         | М         | М                      |
| id               | [resource id] reference by PractitionerRole resource  A UUID represented as a URI (RFC 4122)  Please see reference website in appendix  | string (45)       | The resource id identifies the Healthcare Institution relevant to the medication order  | М         | М         | M                      |
| identifier.value | [Chinese medicines prescribing institution identifier] [Healthcare institution displayed English long name] or the [Healthcare institution displayed Chinese long name] in the eHR Healthcare Provider Index for the healthcare institution which issued the Chinese medicines prescription order | numeric(1<br>0)   | Mandatory if [Chinese medicines prescription institution local name] is blank.  Fixed length: 10 e.g. 10000000000  E.g. "identifier": [ { "system": "[EHR FHIR URL]/pvdr", "value": "[Chinese medicines prescribing institution identifier]" }] | M*        | M*        | NA                     |

| JSON Name | Data Value   | FHIR Data<br>Type | Remarks  | L2<br>M/O | L3<br>M/O | Delete<br>Scenar<br>io |
|-----------|--|-------------------|--|-----------|-----------|------------------------|
| name      | [Chinese medicines prescribing institution long name] [Healthcare institution displayed English long name] or the [Healthcare institution displayed Chinese long name] in the eHR Healthcare Provider Index for the healthcare institution which issued the Chinese medicines prescription order | string(255)       | Mandatory if [Chinese medicines prescription institution identifier] is given. | M*        | M*        | NA                     |
| alias     | [Chinese medicines prescribing institution local name] Local description of the healthcare provider by which the Chinese medicines prescription order was made   | string(100        | Mandatory if [Chinese medicines prescribing institution identifier] is given   | M*        | M*        | NA                     |

# 5.6 Data Elements in the MedicationRequest resource

The information about an individual who has medication orders

| JSON Name         | Data Value   | FHIR Data<br>Type<br>(Max<br>Length) | Remarks  | L2<br>M/<br>O | L3<br>M/O | Delete<br>Scena<br>rio |
|-------------------|--|--------------------------------------|--|---------------|-----------|------------------------|
| resousrceTyp<br>e | MedicationRequest  | string(17)                           | Fixed Value: "resourceType": "MedicationRequest"   | М             | М         | М                      |
| id                | Resource id Logical id of this artifact A UUID represented as a URI (RFC 4122);  | uuid                                 | E.g.<br>c7781f44-6df8-4a8b-9e06-<br>0b34263a47c5   | M             | М         | M                      |
| identifier        | [Record key] A unique identifier for each Chinese Medicine Prescribing record  | string(40)                           | This [Record Key] is reference to the same [Record Key] in Composite Resource entry  E.g.  "identifier": {  "system": "[HCP FHIR  URL]/Recordkey",  "value": "[Record key]"} | M             | М         | M                      |
| identifier        | [Chinese medicines prescription order number] A unique number assigned for each Chinese medicines prescription order issued by individual healthcare institution. One prescription order may include multiple Chinese medicines. | string(20)                           | E.g.  "identifier": {  "system": "[HCP FHIR  URL]/OrderNum",  "value": "[Chinese medicines  prescription order number]"}   | М             | М         | 0                      |

| JSON Name                                  | Data Value   | FHIR Data<br>Type<br>(Max<br>Length) | Remarks  | L2<br>M/<br>O | L3<br>M/O | Delete<br>Scena<br>rio |
|--|--|--------------------------------------|--|---------------|-----------|------------------------|
| status                                     | Current state of the order.  eHRSS will not interpret this value   | string(9)                            | Fixed value : "completed"  | М             | М         | M                      |
| intent                                     | Indictor this request is an order.  eHRSS will not interpret this value  | string(5)                            | Fixed value : "order"  | М             | M         | М                      |
| medication.re<br>ference                   | [resource.id] of Medication<br>Resource  | reference(<br>100)                   | Reference Format: Medication/ <resource id="">  • This resource id is the same value of the Medication resource id</resource>  | M             | М         | NA                     |
| subject.refere<br>nce                      | [resource.id] of Patient Resource in<br>the same bundle HCR has the<br>Prescribing records in this bundle                        | reference(<br>100)                   | Reference Format: Patient/ <resource id="">  E.g. "subject": { "reference": "Patient/6e480262-978c-49f0-a793-468293932fc2" }  • This resource id is the same value of the Patient resource id</resource> | M             | М         | NA                     |
| requester.refe<br>rence                    | [resource.id] of PractitionerRole<br>Resource for the requester<br>PractitionerRole  | reference(<br>100)                   | Reference Format: PractitionerRole/ <resource id=""></resource>  | 0             | 0         | NA                     |
| encounter.ref<br>erence                    | [resource.id] of Encounter<br>Resource in which the prescription<br>is related to  | reference(<br>100                    | Reference Format:<br>Encounter/ <resource id=""></resource>  | 0             | 0         | NA                     |
| dosageInstruc<br>tion                      | How the medication should be taken   |                                      |  |               |           |                        |
| extension<br>1006978-<br>CMdoseGp<br>Num   | [Prescribed Chinese medicines dose group number] The group number of the prescribed Chinese medicines dose                       | numeric(3                            | e.g. "url": "[EHR FHIR URL]/1006978- CMdoseGpNum", "valueInteger": [Prescribed Chinese medicines dose group number]  | М             | M         | NA                     |
| extension<br>1006996-<br>CMDoseRe<br>marks | [Prescribed Chinese medicines<br>dose remarks]<br>Additional information relating to<br>the prescribed Chinese medicines<br>dose | string(300<br>)                      | e.g. "url": "[EHR FHIR URL]/1006996- CMDoseRemarks", "valueString": "[Prescribed Chinese medicines dose remarks]"  | 0             | 0         | NA                     |

| JSON Name          | Data Value  | FHIR Data<br>Type<br>(Max<br>Length) | Remarks   | L2<br>M/<br>O | L3<br>M/O | Delete<br>Scena<br>rio |
|--------------------|---|--------------------------------------|---|---------------|-----------|------------------------|
| text               | [Prescribed Chinese medicines dose instruction] The entire combined instruction information of one Chinese medicines dose; the syntax may contain the decoction method and/or method of administration which includes: dose, frequency, duration of treatment or treatment start and end date | string(350                           |   | M             | М         | NA                     |
| route              |   |                                      |   |               | •         | •                      |
| coding.syst<br>em  | Link to coding system of "Chinese medicines route of administration"  | uri                                  | Fixed value: [EHR FHIR URL]/CMroute   | 0             | 0         | NA                     |
| coding.code        | [Prescribed Chinese medicines route of administration code] [eHR value] of the "Chinese medicines route of administration" code table for identifying the prescribed Chinese medicines route of administration.   | string(20)                           | Mandatory if [Prescribed Chinese medicines route of administration description] is given, else N/A.  Refer to the code set "Chinese medicines route of administration" in Self-Service kit. The latest code set in eHealth website shall prevail. | NA            | M*        | NA                     |
| coding.displ<br>ay | [Prescribed Chinese medicines route of administration description] [eHR description] of the "Chinese medicines route of administration" code table for identifying the prescribed Chinese medicines route of administration.  | string(20)                           | Mandatory if [Prescribed Chinese medicines route of administration code] is given, else N/A.  Refer to the code set "Chinese medicines route of administration" in Self-Service kit. The latest code set in eHealth website shall prevail.        | NA            | M*        | NA                     |
| text               | [Prescribed Chinese medicines route of administration local description] Local description of the prescribed Chinese medicines route of administration developed by the healthcare provider.  | string(100<br>)                      |   | 0             | 0         | NA                     |
| doseAndRate        | Amount of medication administered   |                                      |   |               |           |                        |
| doseQuanitity      | Amount of medication per dose [Prescribed Chinese medicines   | docinas!/1                           | Pormissible values:   | N 4           | N 4       | NI A                   |
| value              | dose value] The numeric value of the corresponding prescribed Chinese medicines dose unit.  | decimal(1<br>2)                      | Permissible values:<br>0.01-999.99  | M             | M         | NA                     |

| JSON Name                                      | Data Value  | FHIR Data<br>Type<br>(Max<br>Length) | Remarks  | L2<br>M/<br>O | L3<br>M/O | Delete<br>Scena<br>rio |
|--|---|--------------------------------------|--|---------------|-----------|------------------------|
| unit   | [Prescribed Chinese medicines dose unit description] [Chinese description] of the "Chinese Medicines dose unit" code table for the dose unit of the prescribed Chinese medicines. It is the corresponding description of the selected [Chinese medicines dose unit - code]. | string(20)                           | Mandatory if [Chinese medicines type code] is "DG", else N/A if [Chinese medicines type code] is "DP" or "pCm"   | M*            | М         | NA                     |
| system   | Link to the coding system of<br>"Prescribed Chinese medicines dose unit"  | uri                                  | Fixed value: [EHR FHIR URL]/CMdoseUnitcd   | M*            | M*        | NA                     |
| code   | [Prescribed Chinese medicines dose unit code] [eHR value] of the "Chinese Medicines dose unit" code table for identifying the dose unit of the prescribed Chinese medicines.  | string(10)                           | Mandatory if [Chinese medicines type code] is "DG" and dose value must be "1".  Mandatory in 'Insert' and 'Update' scenarios for Level 2 if [Chinese medicines type code] is "DG" and value must be "1", else N/A if [Chinese medicines type code] is "DP" or "pCm".  e.g.  "system": "[EHR FHIR URL]/CMdoseUnitcd", "code": "[Prescribed Chinese medicines dose unit code]" | M*            | M*        | NA                     |
| extension<br>1006989-<br>DoseUnitLo<br>calDesc | [Prescribed Chinese medicines dose unit local description] Local description created by the healthcare provider for the dose unit of the prescribed Chinese medicines   | extension<br>url<br>string(20)       | Fixed value: [EHR FHIR URL]/1006989-DoseUnitLocalDesc  e.g. { "url": "[EHR FHIR URL]/1006989-DoseUnitLocalDesc", "valueString": "[Prescribed Chinese medicines dose unit local description]" }   | M             | M         | NA                     |

| JSON Name  | Data Value   | FHIR Data<br>Type<br>(Max<br>Length) | Remarks  | L2<br>M/<br>O | L3<br>M/O | Delete<br>Scena<br>rio |
|--|--|--------------------------------------|--|---------------|-----------|------------------------|
| extension<br>1006990-<br>CMDoseU<br>nitRemark<br>s | [Prescribed Chinese medicines dose unit remarks] [eHR value] of the "Chinese medicines dose unit remarks" code table for the dose additional information of the prescribed Chinese medicines. It is the supplementary information on the dose unit of the prescribed dispensing granules | extension<br>url<br>string(20)       | Mandatory if [Chinese medicines type code] is "DG", else N/A if [Chinese medicines type code] is "DP" or "pCm".  Fixed value:  [EHR FHIR URL]/ 1006990- CMDoseUnitRemarks  E.g. "url": "[EHR FHIR URL]/1006990- CMDoseUnitRemarks" | M*            | M*        | NA                     |

## 5.7 Data Elements in the Medication resource

The FHIR Medication resource represents information about a specific medication. It is used to define what medicine is being prescribed, dispensed, or administered.

| JSON Name                                | Data Value   | FHIR Data<br>Type<br>(Max<br>Length) | Remarks  | L2<br>M/<br>O | L3<br>M/O | Delete<br>Scenar<br>io |
|--|--|--------------------------------------|--|---------------|-----------|------------------------|
| resousrceTyp<br>e                        | Medication   | string(10)                           | Fixed Value: "resourceType": "Medication"  | М             | М         | NA                     |
| id                                       | Resource id Logical id of this artifact A UUID represented as a URI (RFC 4122);  | uuid                                 | E.g.<br>c7781f44-6df8-4a8b-9e06-<br>0b34263a47c5   | M             | M         | NA                     |
| extension<br>1006978-<br>CMdoseGpNu<br>m | [Prescribed Chinese medicines dose group number] The group number of the prescribed dose.  | numeric(3)                           | e.g. "url": "[EHR FHIR URL]/1006978- CMdoseGpNum", "valueInteger": [Prescribed Chinese medicines dose group number]  | M             | М         | NA                     |
| code                                     | A code (or set of codes) that specify this medication  |                                      |  |               |           |                        |
| extension<br>1006979-<br>CMtype          | [Chinese medicines type code] [eHR value] of the "Chinese medicines type" code table for identifying the type of the prescribed Chinese medicines. | string(10)                           | Refer to the code set "Chinese medicines type" in Self-Service Kit. The latest code set in eHealth website shall prevail.  E.g. "url": "[EHR FHIR URL]/1006979-CMtype", "valueString": "[Chinese medicines type code]" | M             | M         | NA                     |

| JSON Name                                     | Data Value   | FHIR Data<br>Type<br>(Max<br>Length) | Remarks   | L2<br>M/<br>O | L3<br>M/O | Delete<br>Scenar<br>io |
|---|--|--------------------------------------|---|---------------|-----------|------------------------|
| extension<br>1006991-<br>CMAdditional<br>Info | [Prescribed Chinese medicines additional information] The decoction method of the corresponding prescribed Chinese medicines or the ingredients of the corresponding prescribed proprietary Chinese medicines.                     | string(500)                          | E.g "url": "[EHR FHIR URL]/1006991- CMAdditionalInfo", "valueString": "[Prescribed Chinese medicines additional information]"   | 0             | 0         | NA                     |
| extension<br>1006980-<br>DrugSequenc<br>eNum  | [Prescribed Chinese medicines sequence number] The sequence number of the prescribed Chinese medicines.  | numeric(3)                           | Permissible values: 1-999  It must be unique as per particular prescribed Chinese medicines dose.  "url": "[EHR FHIR URL]/1006980-DrugSequenceNum",  "valueInteger": [Prescribed Chinese medicines sequence number]         | М             | М         | NA                     |
| Prescribed Chin                               | ese medicines - recognised terminolog  | Sy                                   |   |               |           |                        |
| coding.system                                 | [Prescribed Chinese medicines - recognised terminology name] Name of the recognised terminology for the prescribed Chinese medicines.  If eHR value = HKCTT, allowable nature is "中藥產品"; if eHR value = pCm, all record is allowed | uri                                  | Mandatory if [Prescribed Chinese Medicines identifier - recognised terminology] is given, else N/A.  For HKCTT, fixed uri: [EHR FHIR URL]/HKCTT  For GB95, fixed uri: [EHR FHIR URL]/pCM  Refer to the code set "Recognised | NA            | М         | NA                     |
|   |  |                                      | terminology name - Chinese<br>medicines" in Self-Service Kit. The<br>latest code set in eHealth website<br>shall prevail.   |               |           |                        |
| coding.code                                   | [Prescribed Chinese medicines identifier - recognised terminology] Unique identifier of the prescribed Chinese medicines in the recognised terminology.  | string(20)                           | e.g. 9812009 (for HKCTT)  Refer to the code set "Recognised terminology name - Chinese medicines" in Self-Service Kit. The latest code set in eHealth website shall prevail.  | NA            | M         | NA                     |

| JSON Name       | Data Value  | FHIR Data<br>Type<br>(Max<br>Length) | Remarks  | L2<br>M/<br>O | L3<br>M/O | Delete<br>Scenar<br>io |
|-----------------|---|--------------------------------------|--|---------------|-----------|------------------------|
| coding.display  | [Prescribed Chinese medicines description - recognised terminology] Description of the prescribed Chinese medicines in recognised terminology. It should be the corresponding description of the selected [Prescribed Chinese medicines identifier - recognised terminology]. | string (100)                         | e.g. 製半夏(薑半夏) - 顆粒劑(沖劑) (for HKCTT)  Refer to the code set "Recognised terminology name - Chinese medicines" in Self-Service Kit. The latest code set in eHealth website shall prevail.  E.g. "system": "[EHR FHIR URL]/HKCTT", "code": "[Prescribed Chinese medicines identifier - recognised terminology]", "display": "[Prescribed Chinese medicines description - recognised terminology]" | NA            | Μ         | NA                     |
| Prescribed Chir | nese medicines - local terminology  |                                      |  |               |           |                        |
| coding.system   | Link to local terminology coding system   | uri                                  | Fixed Value: "[HCP FHIR URL]/CM "  | 0             | М         | NA                     |
| coding.code     | [Prescribed Chinese medicines code -local terminology] Local code of the prescribed Chinese medicines developed by the healthcare provider.   | string (20)                          | "code": "[Prescribed Chinese<br>medicines code -local terminology]"  | 0             | 0         | NA                     |
| coding.display  | [Prescribed Chinese medicines description - local terminology] Local description of the prescribed Chinese medicines developed by the healthcare provider.  | string (100)                         | Mandatory if [Prescribed Chinese medicines approach identifier - recognised terminology] is given, else Optional.  "display": "[Prescribed Chinese medicines description - local terminology]"   | М             | M         | NA                     |

# 5.8 Data Elements in the DocumentReference resource

The information about the details for the Medication Order record.

| JSON Name     | Data Value    | FHIR Data<br>Type<br>(Max<br>Length) | Remarks                                 | L2<br>M/O | L3<br>M/O | Delete<br>Scenario |
|---------------|---------------|--------------------------------------|---|-----------|-----------|--------------------|
| resousrceType | Resource name | string(17)                           | <u>Fixed Value:</u> "DocumentReference" | М         | M         | NA                 |

| JSON Name                  | Data Value  | FHIR Data<br>Type<br>(Max<br>Length) | Remarks  | L2<br>M/O | L3<br>M/O | Delete<br>Scenario |
|----------------------------|---|--------------------------------------|--|-----------|-----------|--------------------|
| id                         | [resource id] reference by Composition resource  A UUID represented as a URI (RFC 4122) Please see reference website in | string (45)                          |  | M         | М         | NA                 |
| status                     | appendix  This is FHIR Code to identify the status of the CM prescribing records current   superseded   enteredin-error | string(7)                            | Fixed value: current   | M         | M         | NA                 |
| content                    | Chinese Medicines Prescribing Rec   | ord in PDF                           |  |           | l         | L                  |
| attachment.co<br>ntentType | Type of PDF   | string(10)                           | Fixed value: "contentType": "application/pdf",                       | М         | М         | NA                 |
| attachment.da<br>ta        | [Chinese medicines prescription image (PDF)] Chinese medicines prescription order in PDF format                         | base64Bin<br>ary                     |  | М         | M         | NA                 |
| attachment.url             | [PDF file name] File name of PDF of the corresponding file.   | string(255<br>)                      | In format: Please refer the Section 6 Image file (PDF) name standard | М         | M         | NA                 |

## 5.9 Data Elements in the PractitionerRole resource

The information about the details for the Prescriber role for the Medication record.

| JSON Name    | Data Value  | FHIR Data<br>Type | Remarks  | L2<br>M/O | L3<br>M/O | Delete<br>Scenario |
|--------------|---|-------------------|--|-----------|-----------|--------------------|
| resourceType | Resource name   | string (12)       | Fixed value: "PractitionerRole"  | М         | М         | NA                 |
| id           | [resource id] reference by MedicationRequest A UUID represented as a URI (RFC 4122)  Please see reference website in appendix | string (45)       | The resource id identifies the Roles for Organization and Practitioner | М         | М         | NA                 |

| JSON Name                  | Data Value                                | FHIR Data<br>Type  | Remarks   | L2<br>M/O | L3<br>M/O | Delete<br>Scenario |
|----------------------------|---|--------------------|---|-----------|-----------|--------------------|
| practitioner.refere<br>nce | Links the practitioner to a specific role | reference(1<br>00) | In format: Practitioner/ <resource id="">  E.g: "practitioner": { "reference": "Practitioner/8d46812c-4345- 45ca-b9ff-ec325816c416" }  Prescribing Role • [Chinese medicines prescriber's English full name] • [Chinese full name]</resource>   | 0         | O         | NA                 |
| oganization.refere<br>nce  | Links the organization to a specific role | reference(1<br>00) | In format: Organization/ <resource id="">  E.g. "organization": {     "reference": "Organization/c3cdb0dd-9b20- 4a14-82bc-3facb3da18f7" }  Prescribing Role • [Chinese medicines prescribing institution identifier] • [Chinese medicines prescribing institution long name] • [Chinese medicines prescribing institution long name]</resource> | O         | O         | NA                 |

## 5.9.1 Data Elements in Practitioner resource

The Practitioner Resources is referenced by the PractitionerRole Resource to identify the practitioner who prescribed the medication order

| JSON Name       | Data Value  | FHIR Data<br>Type | Remarks  | L2<br>M/O | L3<br>M/O | Delete<br>Scenario |
|-----------------|---|-------------------|--|-----------|-----------|--------------------|
| resourceType    | Resource name   | string (12)       | Fixed value: "Practitioner"  | М         | М         | М                  |
| id              | [resource id] reference by PractitionerRole  A UUID represented as a URI (RFC 4122)  Please see reference website in appendix | string (45)       | The resource id identifies the Healthcare staff who prescribed the Chinese Medicines | M         | M         | М                  |
| Chinese medicin | nes prescriber  |                   |  |           |           |                    |

| JSON Name                                 | Data Value  | FHIR Data<br>Type              | Remarks  | L2<br>M/O | L3<br>M/O | Delete<br>Scenario |
|---|---|--------------------------------|--|-----------|-----------|--------------------|
| 1006956-<br>PrescriberChin<br>eseFullName | [Chinese medicines prescriber's Chinese full name] Full Chinese name (with title) of the healthcare professional who prescribed the Chinese medicines | extension<br>url<br>string(20) | Mandatory if [Chinese medicines prescriber's English full name] is blank.  Eg. "extension": [ {   "url": "[EHR FHIR URL]/ 1006956- PrescriberChineseFullName",   "valueString": "[Chinese medicines prescriber's Chinese full name]"   } ] | M*        | M*        | NA                 |
| name.text                                 | [Chinese medicines prescriber's English full name] Full English name (with title) of the healthcare professional who prescribed the Chinese medicines | string(100)                    | Mandatory if [Chinese medicines prescriber's Chinese full name] is blank.  E.g. "name": [ { "text": [Chinese medicines prescriber's English full name]" }]   | M*        | M*        | NA                 |

## 5.10 Data Elements for the Encounter resource

The information about an encounter which related to medication order.

| JSON<br>Name      | Data Value   | Data Definition   | FHIR Data<br>Type<br>(Max<br>Length) | Remarks                                       | L2<br>M/<br>O | L3<br>M/O | Delet<br>e<br>Scen<br>ario |
|-------------------|--|---|--------------------------------------|---|---------------|-----------|----------------------------|
| resousrce<br>Type | Resource name  | Encounter information<br>about the service<br>provided to HCR                 | string(9)                            | Fixed Value: "resourceType":" Encounter"      | M             | M         | NA                         |
| id                | Resource id<br>reference by<br>Condition<br>resource | Logical id of this<br>artifact<br>A UUID represented as<br>a URI (RFC 4122 ); | uuid                                 | E.g. 169281c8-fb76-<br>4e9c-b30f-3dfb3a7f53f2 | 0             | 0         | NA                         |

| JSON<br>Name                                      | Data Value   | Data Definition   | FHIR Data<br>Type<br>(Max<br>Length) | Remarks  | L2<br>M/<br>O | L3<br>M/O | Delet<br>e<br>Scen<br>ario |
|---|--|---|--------------------------------------|--|---------------|-----------|----------------------------|
| 99999999<br>-<br>Attendanc<br>elnstldent<br>ifier | [Attendance<br>institution<br>identifier]                                | eHRSS assigned [Healthcare Institution Identifier] (HCI ID) of the healthcare institution where the HCR receives the service.   | string(10)                           | E.g.  "extension": [  {  "url": "[eHR FHIR  URL]/99999999-  AttendanceInstIdentifier ",  "valueString":  "[Attendance institution identifier]"  }] | 0             | 0         | NA                         |
| identifier  | [Episode number]   | A unique reference<br>number assigned by<br>the healthcare<br>institution to an<br>episode of care. The<br>episode of care can be<br>of inpatient or<br>outpatient nature | string(20)                           | E.g.  {     "system": "[HCP FHIR URL]/EpisodeNum",     "value": "[Episode number]" }   | 0             | 0         | NA                         |
| status  | eHRSS will not interpret the value.                                      |   | code                                 | Fixed Value : "finished"   | M             | Σ         | M                          |
| Class   | Classification of patient encounter  eHRSS will not interpret the value. |   | Coding                               | Fixed Value: "class": {   "system": "[eHR FHIR   URL]/class",   "code": "UNKNOWN",   "display": "Unknown   status"}                                | M             | M         | M                          |

# 6. Image File (PDF)

The details of PDF naming convention

| File Name | <hcp id="">.<sending code="" location="">.<record type="">.<record key="">.<original file="" name="">.<file extension="">.<ehr number="">.<generation date=""></generation></ehr></file></original></record></record></sending></hcp> |
|-----------|---|
|           | where   |
|           | the <record type=""> for the Chinese Medicines Prescribing Domain is "CMRXO"</record>   |

E.g.

8088450656.BRANCHA.CMRXO.CMRXO-001.123.pdf.201000000001

- 1. The file name must be in capital letters except pdf extension.
- 2. Dot "." is used as file name delimiters and hence the value of each file name component must not contain dot "." The table below listed the file name components and their respective definitions:

| Seq | File name<br>Component      | Definition   | Length      | Remarks  | M/O |
|-----|-----------------------------|--|-------------|--|-----|
| 1   | HCP ID                      | A unique identifier assigned to an eHealth Healthcare Provider by eHRSS                              | string(10)  | <u>Fixed Length:</u> 10 e.g. 8088450656  | М   |
| 2   | Sending<br>Location<br>Code | A code agreed between eHRSS and the HCP which indicates the location where the data is sending from. | string(20)  | Use [HCP ID] if sending location cannot be provided.  Format: Any combination of the following alphanumeric characters: [A-Z][0-9][] | M   |
| 3   | Record Type                 | A standardised code to identify the data domain  | string(5)   | Refer to defined Dataset Code<br>e.g. CMRXO  | М   |
| 4   | Record Key                  | A unique identifier for a record within the HCP's EMR system   | string(50)  | e.g. CMRXO-0001  | М   |
| 5   | Original File Name          | The fila name used in source institution   | string(100) | e.g. 123   | М   |
| 6   | File Extension              | pdf (Portable Document Format File)  | string(3)   | Fixed value: pdf   | М   |
| 7   | eHR Number                  | A unique HCR identifier assigned by eHRSS  | string(12)  | <u>Fixed length:</u> 12 e.g. 20100000001   | М   |
| 8   | Generation Date             | File generation date. It should be the same value of the [composition.date]                          | string(14)  | In format: YYYYMMDDhhmmss  | М   |

## 7. Examples

In the following samples, data variables that have to be generated with each specific upload are quoted in square brackets and highlighted in *[Red]*. The definitions and expected values of these variables are listed in the previous section. All other parts including data values should not be altered without confirmation with the eHRSS project teams.

A sample in JSON format are included in the eHealth Data Upload Self Service Kit. Developers may use it as a template for incorporation with their data uploads after modification.

Chinese Medicines Prescribing Record template:

```
Comment
"resourceType": "Bundle",
"id": "[Resource id for Bundle]",
                                                                                         Bundle Resource
                                                                                         -[Resource id for Bundle]
"identifier": {
   "system": "urn:ietf:rfc:4122",
   "value": "d2f9f649-5555-4826-868b-84e015c1f1be"
"type": "document",
                                                                                         -[current time]
"timestamp": "[current time]",
"entry": [
       "fullUrl": "Composition/[resource id for Composition]",
                                                                                         -[fullUrl for Composition]
        "resource": {
                                                                                         [resource id for Composition]
            "resourceType": "Composition",
           "id": "30551ce1-5a28-4356-b684-1e639094ad4d",
           "extension": [
                   "url": "https://ehealth.gov.hk/FHIR/99999999-SendingLocation",
                                                                                         - [Sending location]
                   "valueString": "[Sending location]"
               },
                   "url": "https://ehealth.gov.hk/FHIR/9999999-ComplianceLevel",
                                                                                         - [Compliance level]
                   "valueString": "[Compliance level]"
               },
                   "url": "https://ehealth.gov.hk/FHIR/9999999-DomainVersion",
                                                                                         - [Domain version]
                    "valueString": "[Domain version]"
               },
```

```
"url": "https://ehealth.gov.hk/FHIR/99999999-UploadMode",
                                                                                              - [Upload mode]
                        "valueString": "[Upload mode]"
                   }
                ],
                "status": "final",
                "type": {
                    "coding": [
                            "system": "https://ehealth.gov.hk/FHIR",
                            "display": "Hong Kong eHR Healthcare Document"
                "subject": [
                                                                                              Link to Patient Resource
                        "reference": "Patient/[resource id for Patient]"
                                                                                              - [Message generation time]
                "date": "[Message generation time]",
                "author": [
                        "reference": "Organization/3b3703a9-7a26-427c-9352-4e41f046d85e"
                "title": "Hong Kong eHR Healthcare Document",
                "section": [
                        "title": "Chinese Medicine Prescribing Records",
                        "code": {
                            "coding": [
                                    "system": "https://ehealth.gov.hk/FHIR/datadomain",
                                    "code": "CMRXO"
                        },
                        "entry": [
                                "extension": [
                                        "url": "https://ehealth.gov.hk/FHIR/99999999-
                                                                                              - [Record creation datetime]
RecordCreateDatetime",
                                         "valueDateTime": "[Record creation datetime]"
```

```
},
                                                                                             - [Record creation
                                       "url": "https://ehealth.gov.hk/FHIR/99999999-
                                                                                             institution identifier]
RecordCreateInstIdentifier",
                                       "valueString": "[Record creation institution
identifier]"
                                   },
{
                                                                                             - [Record creation institution
                                       "url": "https://ehealth.gov.hk/FHIR/99999999-
                                                                                              name]
RecordCreateInstName",
                                        "valueString": "[Record creation institution
 namel"
                                   },
{
                                       "url": "https://ehealth.gov.hk/FHIR/99999999-
RecordLastUpdateDatetime",
                                                                                             -[Record last update
                                       "valueDateTime": "[Record last update datetime]"
                                                                                              datetimel
                                   },
{
                                       "url": "https://ehealth.gov.hk/FHIR/99999999-
RecordUpdateInstIdentifier",
                                                                                             - [Record update institution
                                       "valueString": "[Record update institution
                                                                                              Identifierl
Identifier]"
                                   },
{
                                       "url": "https://ehealth.gov.hk/FHIR/99999999-
                                                                                             - [Record update institution
RecordUpdateInstName",
                                                                                              name]
                                       "valueString": "[Record update institution
namel"
                                   },
                                                                                             - [Transaction datetime]
                                       "url": "https://ehealth.gov.hk/FHIR/99999999-
TransactionDateTime",
                                       "valueDateTime": "[Transaction datetime]"
                                   },
                                       "url": "https://ehealth.gov.hk/FHIR/99999999-
                                                                                             - [Transaction type]
TransactonType",
                                       "valueString": "[Transaction
type]
                                                                                             - [Last Update datetime]
                                       "url": "https://ehealth.gov.hk/FHIR/99999999-
LastUpdateDateTime",
```

```
"valueDateTime": "[Last Update datetime]"
                                    }
                               "reference": "MedicationRequest/534922e6-1e05-4b08-b0b3-
                                                                                            Link to MedicationRequest
068773c12658",
                                                                                            Resource
                               "identifier": {
                                    "system":
"https://ehealth.gov.hk/FHIR/HCP/local/Recordkey",
                                    "value": "[Record Key]"
                                                                                            -[Record key]
                           } ,
                               "reference": "DocumentReference/[Resource id of
DocumentReference]",
                                                                                            Link to DocumentReference
                               "identifier": {
                                                                                            Resource
                               "system":
"https://ehealth.gov.hk/FHIR/HCP/local/Recordkey",
                                   "value": "[Record key]"
                                                                                            -[Record key]
       },
            "fullUrl": "DocumentReference/0a9ead62-692d-4f6a-884b-9f456e0cdad6",
            "resource": {
                                                                                            -[fullUrl for Composition]
                "resourceType": "DocumentReference",
                                                                                             [resource id for Composition]
                "status": "current",
                "content": [
                        "attachment": {
                           "contentType": "application/pdf",
                                                                                            -[Chinese medicines
                            "data" : "Base64 of [Chinese medicines prescription image
                                                                                            prescription image (PDF)]
(PDF)]",
                           "url": "[Chinese medicines prescription image file name]"
                                                                                            - [Chinese medicines
                                                                                            prescription image file name]
```

```
"fullUrl": "Organization/3b3703a9-7a26-427c-9352-4e41f046d85e",
           "resource": {
                                                                                            [fullUrl for Organization]
                "resourceType": "Organization",
                                                                                            Organization Resource
               "id": "3b3703a9-7a26-427c-9352-4e41f046d85e",
                                                                                            - [Resource id for
               "name": "[Healthcare institution long name]"
                                                                                              Organization resource]
           }
                                                                                            - [Healthcare institution long
       },
                                                                                              namel
           "fullUrl": "MedicationRequest/[Resource id for MedicationRequest]",
           "resource": {
                "resourceType": "MedicationRequest",
                                                                                            [fullUrl for
                "id": "[Resource id for MedicationRequest]",
                                                                                            MedicationRequest
                "identifier": [
                                                                                            MedicationRequest Resource
                                                                                            - [Resource id for
                        "system": "http://www.ehealth.gov.hk/FHIR/HCP/local/OrderNum",
                                                                                              MedicationRequest resource]
                       "value": "PX 0116 2001 574"
                   }
                                                                                            -[Chinese medicines
                                                                                            prescription order number]
                "status": "completed",
                "intent": "order",
                "subject": {
                   "reference": "Patient/[resource id for Patient resource]"
               },
                                                                                            Link to Patient Resource
                "authoredOn": "[Chinese medicines prescription date/time]",
                "requester": {
                                                                                            -[Chinese medicines
                   "reference": "PractitionerRole/[Resource id for Requester
                                                                                            prescription date/timel
PractitionerRole]
                                                                                            Link to PractitionerRole
                "encounter": {
                                                                                            Resource
                   "reference": "Encounter/[Resource id for Encounter]
               },
                                                                                            Link to Encounter resource
                "dosageInstruction": [
                      "extension": [
                               "url": "https://ehealth.gov.hk/FHIR/1006978-CMdoseGpNum",
                               "valueInteger": [Prescribed Chinese medicines dose group
                                                                                            -[ Prescribed Chinese
number]
                                                                                            medicines dose group number]
                           },
                               "url": "https://ehealth.gov.hk/FHIR/1006996-CMDoseRemarks".
```

```
"valueString": "[Prescribed Chinese medicines dose
                                                                                          -[Prescribed Chinese
remarks]"
                                                                                          medicines dose remarks]
                          }
                       "text": "[Prescribed Chinese medicines dose instruction]",
                                                                                          -[Prescribed Chinese
                       "route": {
                                                                                          medicines dose instruction
                           "coding": [
                                   "system": "https://ehealth.org.hk/FHIR/CMroute",
                                                                                          -[Prescribed Chinese
                                   "code": "[Prescribed Chinese medicines route of
                                                                                          medicines route of
administration code]",
                                                                                          administration codel
                                   "display": "[Prescribed Chinese medicines route of
                                                                                          -[Prescribed Chinese
administration description]
                                                                                          medicines route of
                              }
                                                                                          administration description]
                                                                                          -[Prescribed Chinese
                           "text": "[Prescribed Chinese medicines route of
                                                                                          medicines route of
administration local description]
                                                                                          administration local
                                                                                          description]
                       "doseAndRate": [
                               "doseQuantity": {
                                   "extension": [
                                                                                          -[ Prescribed Chinese
                                          "url": "https://ehealth.gov.hk/FHIR/1006989-
                                                                                          medicines dose unit local
DoseUnitLocalDesc",
                                                                                          description]
                                          "valueString": "[Prescribed Chinese
                                                                                          -[Prescribed Chinese
medicines dose unit local description1"
                                                                                          medicines dose unit local
                                                                                          description]
                                          "url": "https://ehealth.gov.hk/FHIR/1006990-
                                                                                          -[Prescribed Chinese
CMDoseUnitRemarks",
                                                                                          medicines dose unit remarks]
                                          "valueString": "[Prescribed Chinese
medicines dose unit remarks]"
                                      },
                                                                                          -[Prescribed Chinese
                                   "value": [Prescribed Chinese medicines dose value],
                                                                                          medicines dose valuel
                                   "unit": "[Prescribed Chinese medicines dose unit
                                                                                          -[Prescribed Chinese
description]",
                                                                                          medicines dose unit
                                   "system":
                                                                                          description]
"https://www.ehealth.gov.hk/FHIR/CMdoseUnitcd",
                                                                                          -[Prescribed Chinese
                                   "code": "[Prescribed Chinese medicines dose unit
                                                                                          medicines dose unit codel
code1"
```

```
}
},
{
                                                                                     [fullUrl for Patient]
    "fullUrl": "Patient/[Resouce id for Patient]",
                                                                                     Patient (HCR) Resource
    "resource": {
                                                                                     - Resource id for Patient
        "resourceType": "Patient",
                                                                                     resource]
        "id": "[Resouce id for Patient]",
        "identifier": [
                "type": {
                    "coding": [
                            "system": "https://ehealth.gov.hk/FHIR/typeofID-ext",
                                                                                     - Fixed value
                            "code": "EHRNO"
                    ]
                                                                                     - [eHR Number]
                "value": "[eHR Number]"
           },
                "type": {
                    "coding": [
                            "system": "https://ehealth.gov.hk/FHIR/typeofID-ext",
                                                                                     - [Type of identity document]
                            "code": "[Type of identity document]"
                   1
               },
  "value": "[Document number]"
                                                                                     - [Document number]
           }
        ],
"name": [
                                                                                     - [English full name]
                "text": "[English full name]",
                                                                                     - [English surname]
                "family": "[English surname]",
                                                                                     - [English given name]
                "given": [
                     "[English given name]"
```

```
"gender": "[Sex]",
                "birthDate": "[Date of Birth]"
                                                                                            - [Sex]
                                                                                            - [Date of Birth]
       },
           "fullUrl": "PractitionerRole/[Resource id for Requester PractitonerRole]",
           "resource": {
                                                                                            [fullUrl for PractitonerRole]
               "resourceType": "PractitionerRole",
                                                                                            - Resource id for
               "id": "[Resource id for Requester PractitonerRole]",
                                                                                            PractitonerRole resourcel
               "practitioner": {
                   "reference": "Practitioner/[Resource id for Prescriber
Practitioner]
                                                                                           Link to Practitioner resource
                "organization": {
                   "reference": "Organization/[Resource id for Prescriber
Orgnization]
                                                                                           Link to Organization resource
           }
       },
           "fullUrl": "Practitioner/[Resource id for Prescriber Practitioner]",
                                                                                            [fullUrl for Practitoner]
            "resource": {
               "resourceType": "Practitioner",
                                                                                            - Resource id for Practitoner
                                                                                            resourcel
               "id": "[Resource id for Prescriber Practitioner]",
               "extension": [
                       "url": "https://ehealth.gov.hk/FHIR/1006956-
PrescriberChineseFullName",
                       "valueString": "[Chinese medicines prescriber's Chinese full name]"
                                                                                            -[Chinese medicines
                                                                                            prescriber's Chinese full
               ],
                                                                                            namel
                "name": [
                       "text": "[Chinese medicines prescriber's English full name]"
                                                                                            -[Chinese medicines
                                                                                            prescriber's English full
                                                                                            namel
           }
       },
           "fullUrl": "Organization/[Resource id for Prescriber Organization",
                                                                                            [fullUrl for Organization]
           "resource": {
                                                                                            - Resource id for
               "resourceType": "Organization",
                                                                                            Organization resource]
```

```
"id": "[Resource id for Prescriber Organization]",
                "identifier": [
                        "system": "https://ehealth.gov.hk/FHIR/pvdr",
                                                                                             -[Chinese medicines
                        "value": "[Chinese medicines prescribing institution identifier]"
                                                                                             prescribing institution
                                                                                             identifierl
                "name": "[Chinese medicines prescribing institution long name]".
                                                                                             -[Chinese medicines
                "alias": [
                                                                                             prescribing institution long
                    "[Chinese medicines prescribing institution local name]"
                                                                                             -[Chinese medicines
           }
                                                                                             prescribing institution local
       },
                                                                                             namel
            "fullUrl": "Encounter/[Resource id for Encounter]",
            "resource": {
                                                                                             [fullUrl for Encounter]
                "resourceType": "Encounter",
                                                                                             Encounter Resource
                "id": "[Resource id for Encounter]",
                                                                                             - [Resource id for Encounter
                "extension": [
                                                                                              resourcel
                        "url": "https://ehealth.gov.hk/FHIR/99999999-
AttendanceInstIdentifier",
                        "valueString": "[Attendance institution identifier]"
                                                                                             - [Attendance institution
                                                                                               identifierl
                "identifier": [
                        "system": "https://ehealth.gov.hk/FHIR/HCP/local/EpisodeNum",
                        "value": "[Episode number]"
                                                                                             - [Episode number]
                "status": "finished",
                "class": {
                    "system": "https://ehealth.gov.hk/FHIR/class",
                    "code": "UNKNOWN",
                    "display": "Unknown status"
               },
        },
            "fullUrl": "Medication/[Resource id for Medication]",
                                                                                             [fullUrl for Medication]
            "resource": {
                                                                                             Medication Resource
                "resourceType": "Medication",
                "id": "[Resource id for Medication]",
```

```
"extension": [
                                                                                            - [Resource id for Encounter
                                                                                              resourcel
                       "url": "https://ehealth.gov.hk/FHIR/1006978-CMdoseGpNum",
                       "valueInteger": [Prescribed Chinese medicines dose group number]
                                                                                            -[ Prescribed Chinese
                                                                                            medicines dose group number]
               ],
                "code": {
                    "extension": [
                           "url": "https://ehealth.gov.hk/FHIR/1006979-CMtype",
                           "valueString": "[Prescribed Chinese medicines type code]"
                                                                                            -[Prescribed Chinese
                       },
                                                                                            medicines type code]
                           "url": "https://ehealth.gov.hk/FHIR/1006991-CMAdditionalInfo",
                           "valueString": "[Prescribed Chinese medicines additional
                                                                                            -[Prescribed Chinese
information]"
                                                                                            medicines additional
                       },
                                                                                            information
                           "url": "https://ehealth.gov.hk/FHIR/1006980-DrugSequenceNum",
                           "valueInteger": [Prescribed Chinese medicines sequence number]
                                                                                            -[Prescribed Chinese
                    ],
                                                                                            medicines sequence number]
                    "coding": [
                           "system": "https://www.ehealth.gov.hk/FHIR/HKCTT",
                           "code": "[Prescribed Chinese medicines - recognised terminology
name]",
                                                                                            -[Prescribed Chinese
                           "display": "[Prescribed Chinese medicines identifier -
                                                                                            medicines - recognised
recognised terminology]"
                                                                                            terminology name]
                                                                                            -[Prescribed Chinese
                       },
                                                                                            medicines identifier -
                           "system": "https://www.ehealth.gov.hk/FHIR/HCP/local/CM",
                                                                                            recognised terminology]
                           "code": "[Prescribed Chinese medicines code -local
                                                                                            -[Prescribed Chinese
terminology] ,
                                                                                            medicines code -local
                           "display": "[Prescribed Chinese medicines description -
                                                                                            terminologyl
local terminology]
                                                                                            -[Prescribed Chinese
                                                                                            medicines description - local
                                                                                            terminology]
       }
    1
```

# 8. Mapping Tables

# 8.1 FHIR Administrative Gender

| FHIR Administrative Gender | eHR Value of [Sex] |
|----------------------------|--------------------|
| male                       | M                  |
| female                     | F                  |
| unknown                    | U                  |

## 9. Code Tables

## Type of identity document

| eHR Description |                          | Chinese Description | Full Description                                |  |
|-----------------|--------------------------|---------------------|---|--|
| Value           |                          |                     |   |  |
| AR              | Adoption Certificate     | 領養證明書               | Adopted Children Register (include those issued |  |
|                 |                          |                     | by HKSAR and non-HKSAR government               |  |
|                 |                          |                     | authorities)                                    |  |
| BC              | Birth Certificate - HK   | 香港出生證明書             | Hong Kong Birth Certificate                     |  |
| CD              | Consular Corps ID Card   | 領事團身份證              | Consular Corps Identity Card                    |  |
| DI              | Document of Identity for | 香港特別行政區簽證身份書        | HKSAR Document of Identity for Visa Purposes    |  |
|                 | Visa Purposes            |                     |   |  |
| EC              | Exemption Certificate    | 豁免證明書(或稱豁免登記證       | Certificate of Exemption                        |  |
|                 |                          | 明書)                 |   |  |
| ED              | eHR document             | 電子健康紀錄文件            | Document issued by eHRC for newborn             |  |
|                 |                          |                     | registration                                    |  |
| ID              | HKID Card                | 香港身份證               | Hong Kong Identity Card                         |  |
| MD              | Macao ID Card            | 澳門身份證               | Macao Identity Card                             |  |
| OC              | Travel documents - PRC   | 中華人民共和國發出之其他        | Other travel documents issued by the People     |  |
|                 |                          | 旅遊証件                | Republic of China government / authorising      |  |
|                 |                          |                     | agent, exclude One-way Permit and Two-way       |  |
|                 |                          |                     | Permit  |  |
| OP              | Travel document -        | 其他國家/地區發出之旅遊証       | Travel documents issued by other countries /    |  |
|                 | overseas                 | 件                   | regions   |  |
| OW              | One-way Permit           | 單程証                 | One-way Permit                                  |  |
| RE              | Recognizance Form        | 擔保書(行街紙)            | Recognizance Form                               |  |
| RP              | Re-entry Permit          | 香港特別行政區回港證          | HKSAR Re-entry Permit                           |  |
| TW              | Two-way Permit           | 雙程証                 | Two-way Permit                                  |  |

## Diagnosis Status

| eHR Value | eHR Description |
|-----------|-----------------|
| Р         | Provisional     |
| Α         | Active          |
| T         | Inactive        |
| R         | Resolved        |
| С         | Cancelled       |

## 10. Data variable

| Variable | Variable Value | Pomark |
|----------|----------------|--------|
| variable | variable value | Remark |

| eHR FHIR URL | https://ehealth.gov.hk/FHIR           |  |
|--------------|---------------------------------------|--|
| HCP FHIR URL | https://ehealth.gov.hk/FHIR/HCP/local |  |

## 11. Appendix

#### Reference to generate the UUD URI

Online UUID generator: <a href="https://www.uuidgenerator.net/">https://www.uuidgenerator.net/</a>

Python uuid module documentation: <a href="https://docs.python.org/3/library/uuid.html">https://docs.python.org/3/library/uuid.html</a>

Java UUID Class Documentation:

https://docs.oracle.com/en/java/javase/14/docs/api/java.base/java/util/UUID.html

#### FHIR Reference

Bundle Resource: <a href="https://hl7.org/fhir/R4/bundle.html">https://hl7.org/fhir/R4/bundle.html</a>

Composition Resource: <a href="https://hl7.org/fhir/R4/composition.html">https://hl7.org/fhir/R4/composition.html</a>

Patient Resource: <a href="https://hl7.org/fhir/R4/patient.html">https://hl7.org/fhir/R4/patient.html</a>

MedicationRequest : <a href="https://hl7.org/fhir/R4/medicationrequest.html">https://hl7.org/fhir/R4/medicationrequest.html</a>

Medication: <a href="https://hl7.org/fhir/R4/medication.html">https://hl7.org/fhir/R4/medication.html</a>

DocumentReference: https://hl7.org/fhir/R4/documentreference.html

Encounter Resource : <a href="https://hl7.org/fhir/R4/encounter.html">https://hl7.org/fhir/R4/encounter.html</a>