# Argonaut Project

## http://hl7.org/fhir/StructureDefinition/argonaut-careplan

|  |  |
| --- | --- |
| **CarePlan** | Care Plan |
| **CarePlan.concern** |  |
| **CarePlan.identifier** |  |
| **CarePlan.subject** |  |
| **CarePlan.status** |  |
| **CarePlan.context** |  |
| **CarePlan.period** |  |
| **CarePlan.author** |  |
| **CarePlan.modified** |  |
| **CarePlan.category** |  |
| **CarePlan.description** |  |
| **CarePlan.support** |  |
| **CarePlan.relatedPlan** |  |
| **CarePlan.participant** |  |
| **CarePlan.goal** |  |
| **CarePlan.activity** |  |
| **CarePlan.note** |  |

# Grahame Grieve

## http://hl7.org/fhir/StructureDefinition/lipidprofile

|  |  |
| --- | --- |
| **DiagnosticReport** | Diagnostic Report |
| Short name | Lipid Lab Report |
| Definition | The findings and interpretation of a general lipd lab profile. |
| Comments | In this profile, mustSupport means that authoring systems must include the ability to report these elements, and processing systems must cater for them by either displaying them to the user or considering them appropriately in decision support systems. |
| **DiagnosticReport.code** |  |
| Short name | LOINC Code for Lipid Panel with LDL |
| Definition | LOINC Code for Lipid Panel with LDL. |
| Comments | LOINC code includes "direct" LDL - does this mean LDL derived by measuring VLDL by ultracentrifugation? This panel includes both measured and calculated LDL. |
| **DiagnosticReport.result** |  |
| Short name | Cholesterol Result |
| Definition | Reference to Cholesterol Result. |
| **DiagnosticReport.result** |  |
| Short name | Triglyceride Result |
| Definition | Group of elements for Triglyceride result. |
| **DiagnosticReport.result** |  |
| Short name | HDL Cholesterol Result |
| Definition | Group of elements for HDL Cholesterol result. |
| **DiagnosticReport.result** |  |
| Short name | LDL Cholesterol result, if reported |
| Definition | LDL Cholesterol result, if reported. |
| **DiagnosticReport.conclusion** |  |
| Short name | Clinical Interpretation of Lipid Panel |
| Definition | May include diagnosis or suggestions for follow up testing. |
| Comments | It's not unusual for the lab to make some kind of interpretative comment on the set of results. |
| **DiagnosticReport.codedDiagnosis** |  |
| Short name | No codes for a lipid panel |
| Definition | No codes for a lipid panel. |
| Comments | Not used in this context. |

## http://hl7.org/fhir/StructureDefinition/cholesterol

|  |  |
| --- | --- |
| **Observation** | Observation |
| **Observation.code** |  |
| Short name | Cholesterol |
| Definition | Cholesterol. |
| **Observation.valueQuantity** |  |
| Short name | Cholesterol value |
| Definition | Cholesterol value. If a result is not available, use the comments field. |
| **Observation.valueQuantity.value** |  |
| Short name | Actual numerical value |
| Definition | Actual numerical value. |
| **Observation.valueQuantity.comparator** |  |
| Comments | No need for this on cholesterol. |
| **Observation.valueQuantity.unit** |  |
| **Observation.valueQuantity.system** |  |
| **Observation.valueQuantity.code** |  |
| **Observation.interpretation** |  |
| Definition | + | ++ | +++ | - | -- | ---. |
| **Observation.comments** |  |
| Short name | Comments about result |
| Definition | May include statements about significant, unexpected or unreliable. values, or information about the source of the value where this may be relevant to the interpretation of the result. |
| **Observation.referenceRange** |  |
| **Observation.referenceRange.low** |  |
| **Observation.referenceRange.high** |  |
| Definition | <4.5 mmol/L. |
| Comments | Per Australian NHF Recommendations. |
| **Observation.referenceRange.meaning** |  |
| Short name | Range is a recommended range |
| Definition | Range is a recommended range. |
| **Observation.referenceRange.age** |  |
| **Observation.related** |  |

## http://hl7.org/fhir/StructureDefinition/triglyceride

|  |  |
| --- | --- |
| **Observation** | Observation |
| Short name | Triglyceride Result |
| Definition | Group of elements for Triglyceride result. |
| **Observation.code** |  |
| Short name | Triglyceride |
| Definition | Triglyceride. |
| **Observation.valueQuantity** |  |
| Short name | Triglyceride value |
| Definition | Triglyceride value. If a result is not available, use the comments field. |
| **Observation.interpretation** |  |
| Definition | + | ++ | +++ | - | -- | ---. |
| **Observation.comments** |  |
| Short name | Comments about result |
| Definition | Comments about result. |
| **Observation.referenceRange** |  |
| **Observation.referenceRange.low** |  |
| **Observation.referenceRange.high** |  |
| Comments | Per Australian NHF Recommendations. |
| Requirements | <2.0 mmol/L. |
| **Observation.referenceRange.meaning** |  |
| Short name | Range is a recommended range |
| Definition | Range is a recommended range. |
| **Observation.referenceRange.age** |  |
| **Observation.related** |  |

## http://hl7.org/fhir/StructureDefinition/hdlcholesterol

|  |  |
| --- | --- |
| **Observation** | Observation |
| Short name | HDL Cholesterol Result |
| Definition | Group of elements for HDL Cholesterol result. |
| **Observation.code** |  |
| Short name | HDL Cholesterol |
| Definition | HDL Cholesterol. |
| **Observation.valueQuantity** |  |
| Short name | HDL Cholesterol value |
| Definition | HDL Cholesterol value. If a result is not available, use the comments field. |
| **Observation.interpretation** |  |
| Definition | + | ++ | +++ | - | -- | ---. |
| **Observation.comments** |  |
| Short name | Comments about result |
| Definition | Comments about result. |
| **Observation.referenceRange** |  |
| **Observation.referenceRange.low** |  |
| Definition | >1.5 mmol/L. |
| **Observation.referenceRange.high** |  |
| Comments | Per Australian NHF Recommendations. |
| **Observation.referenceRange.meaning** |  |
| Short name | Range is a recommended range |
| Definition | Range is a recommended range. |
| **Observation.referenceRange.age** |  |
| **Observation.related** |  |

## http://hl7.org/fhir/StructureDefinition/ldlcholesterol

|  |  |
| --- | --- |
| **Observation** | Observation |
| Short name | LDL Cholesterol Result |
| Definition | Group of elements for LDL Cholesterol result. |
| **Observation.extension** |  |
| Short name | Whether LDL value is calculated |
| Definition | Whether LDL value is calculated. |
| **Observation.code** |  |
| Short name | LDL Cholesterol -measured or calculated per code |
| Definition | LDL Cholesterol -measured or calculated per code. |
| Binding Description | LDL Cholesterol codes - measured or calculated |
| **Observation.valueQuantity** |  |
| Short name | LDL Cholesterol value |
| Definition | LDL Cholesterol value. If a result is not available, use the comments field. |
| **Observation.interpretation** |  |
| Definition | + | ++ | +++ | - | -- | ---. |
| **Observation.comments** |  |
| Short name | Comments about result |
| Definition | Comments about result. |
| **Observation.referenceRange** |  |
| **Observation.referenceRange.low** |  |
| **Observation.referenceRange.high** |  |
| Definition | <3.0 mmol/L. |
| Comments | Per Australian NHF Recommendations. |
| **Observation.referenceRange.meaning** |  |
| Short name | Range is a recommended range |
| Definition | Range is a recommended range. |
| **Observation.referenceRange.age** |  |
| **Observation.related** |  |

# HL7

## http://hl7.org/fhir/StructureDefinition/shareablevalueset

|  |  |
| --- | --- |
| **ValueSet** | Value Set |
| **ValueSet.url** |  |
| **ValueSet.version** |  |
| **ValueSet.name** |  |
| **ValueSet.status** |  |
| **ValueSet.experimental** |  |
| **ValueSet.publisher** |  |
| Synonym | steward |
| **ValueSet.description** |  |
| Synonym | scope |
| **ValueSet.immutable** |  |
| **ValueSet.codeSystem** |  |
| **ValueSet.codeSystem.system** |  |
| Comments | Servers that support the shareable value set profile SHALL confirm that the system reference is resolvable when accepting value sets (e.g. PUT/POST). |
| **ValueSet.codeSystem.version** |  |
| **ValueSet.codeSystem.caseSensitive** |  |
| **ValueSet.codeSystem.concept** |  |
| **ValueSet.codeSystem.concept.code** |  |
| **ValueSet.codeSystem.concept.abstract** |  |
| **ValueSet.codeSystem.concept.display** |  |
| **ValueSet.codeSystem.concept.definition** |  |
| **ValueSet.codeSystem.concept.concept** |  |

## http://hl7.org/fhir/StructureDefinition/xdsdocumentreference

|  |  |
| --- | --- |
| **DocumentReference** | Document Reference |
| Short name | XDSDocumentEntry |
| Definition | A reference to a document. |
| **DocumentReference.policyManager** |  |
| Short name | XDSDocumentEntry.homeCommunityId |
| Definition | A globally unique identifier for a community with which this document is associated. |
| **DocumentReference.masterIdentifier** |  |
| Short name | XDSDocumentEntry.uniqueId |
| Definition | Globally unique identifier assigned to the document by the creating entity. A DocumentEntry representing a single document is identified by the uniqueId attribute; the linkage between DocumentEntry and the Document it represents is made with the uniqueId attribute. This unique identifier may be used in other documents to reference this document. |
| **DocumentReference.identifier** |  |
| Short name | XDSDocumentEntry.referenceIdList |
| Definition | Other identifiers for the document. |
| **DocumentReference.subject** |  |
| Short name | XDSDocumentEntry.patientId + sourcePatientId/sourcePatientInfo |
| Definition | The patientId represents the subject of care of the document. The value of the patientId shall be the same for all new documents of a SubmissionSet. Patient information typically includes: the patient first and last name, sex, and birth date. |
| Comments | In the context of XDS, the patientId shall be the one with use = official. The Clinical XDS Affinity Domain policies may require more or less specific information and format. This patient information is not intended to be updated once the Document is registered (just as the Document content and metadata itself will not be updated without replacing the previous document). As sourcePatientInfo may have been updated by the source actor, it may no longer be in use within the Document Source (EHR-CR). It is only intended as an audit/checking mechanism and has occasional use for Document Consumer actors. |
| **DocumentReference.type** |  |
| Short name | XDSDocumentEntry.typeCode |
| Definition | The code specifying the particular kind of document (e.g., Prescription, Discharge Summary, Report). It is suggested that the XDS Affinity Domain draws these values from a coding scheme providing a coarse level of granularity (about 10 to 100 entries). Shall have a single value. |
| **DocumentReference.class** |  |
| Short name | XDSDocumentEntry.classCode |
| Definition | A categorization for the type of the document. This may be implied by or derived from the code specified in the Document Type. |
| Comments | XDSDocumentEntry.typeCode. |
| **DocumentReference.author** |  |
| Short name | XDSDocumentEntry.author |
| Definition | Represents the humans and/or machines that authored the document. |
| **DocumentReference.custodian** |  |
| Short name | n/a |
| Definition | Org which maintains the document. |
| **DocumentReference.authenticator** |  |
| Short name | ?? |
| Definition | Represents a participant who has legally authenticated or attested the document within the authorInstitution. Legal authentication implies that a document has been signed manually or electronically by the legalAuthenticator. |
| **DocumentReference.created** |  |
| Short name | XDSDocumentEntry.creationTime |
| Definition | Represents the time the author created the document in the Document Source. |
| **DocumentReference.indexed** |  |
| Short name | XDS submission time or XDSDocumentEntry.creationTime if unknown |
| Definition | When this document reference created. |
| **DocumentReference.status** |  |
| Short name | implied by XDS workflow |
| Definition | This attribute is always set to Approved as part of the submission of new XDS Documents. It may be changed to Deprecated under the primary responsibility of the Document Source with possible patient supervision. Although XDS supports the ability to delete documents, there is no such state as ???the Document Entry is removed??? (only an audit trail is kept if such a deletion is allowed). |
| **DocumentReference.docStatus** |  |
| Definition | Status of the underlying document. |
| **DocumentReference.relatesTo** |  |
| Short name | Relationships that this document has with other document references that already exist |
| Definition | Relationships to other documents. |
| **DocumentReference.relatesTo.code** |  |
| Short name | The type of relationship that this document has with anther document |
| Definition | supersedes | transforms | signs | appends. |
| Comments | If this document appends another document, then the document cannot be fully understood without also accessing the referenced document. |
| **DocumentReference.relatesTo.target** |  |
| Short name | The target document of this relationship |
| Definition | Target of the relationship. |
| **DocumentReference.description** |  |
| Short name | XDSDocumentEntry.title |
| Definition | Represents the title of the document. |
| **DocumentReference.securityLabel** |  |
| Short name | XDSDocumentEntry.confidentialityCode |
| Definition | The code specifying the level of confidentiality of the XDS Document. These codes are specific to an XDS Affinity Domain. |
| Comments | Enforcement and issues related to highly sensitive documents are beyond the scope of XDS (see security section). confidentialityCode is part of a codification scheme and value set enforced by the Document Registry. |
| **DocumentReference.content** |  |
| **DocumentReference.content.attachment** |  |
| **DocumentReference.content.attachment.contentType** |  |
| Short name | XDSDocumentEntry.mimeType |
| Definition | MIME type of the document in the Repository. |
| **DocumentReference.content.attachment.language** |  |
| Short name | XDSDocumentEntry.languageCode |
| Definition | Specifies the human language of character data in the document. The values of the attribute are language identifiers as described by the IETF (Internet Engineering Task Force) RFC 3066. |
| Comments | This value may further be restricted by the registry according to XDS Affinity Domain specific policy. |
| **DocumentReference.content.attachment.url** |  |
| Short name | repository location (by implication & configuration) |
| Definition | Where to access the document. |
| **DocumentReference.content.attachment.size** |  |
| Short name | XDSDocumentEntry.size |
| Definition | Size in bytes of the byte stream that was provided in the Register and Provide Transaction and stored by the XDS Document Repository. This value is computed by the Document Repository and included in the Register Documents Set Transaction. |
| **DocumentReference.content.attachment.hash** |  |
| Short name | XDSDocumentEntry.hash |
| Definition | Hash key of the XDS Document itself. |
| Comments | This value is computed by the Document Repository and used by the Document Registry for detecting the improper resubmission of XDS Documents. If present, shall have a single value. If this attribute is received in a Provide & Register Document Set-b [ITI-41] transaction, it shall be verified by the repository with the actual hash value of the submitted document; an XDSRepositoryMetadataError shall be returned on mismatch. |
| **DocumentReference.content.format** |  |
| Short name | XDSDocumentEntry.formatCode |
| Definition | Code globally uniquely specifying the format of the document. Along with the typeCode, it should provide sufficient information to allow any potential XDS Document Consumer to know if it will be able to process the document. The formatCode shall be sufficiently specific to ensure processing/display by identifying a document encoding, structure and template (e.g., for a CDA Document, the fact that it complies with a CDA schema, possibly a template and the choice of a content-specific style sheet). |
| Comments | Format codes may be specified by multiple organizations. Format codes defined by ITI shall have names with the prefix urn:ihe:iti:. Format codes defined by other IHE domains shall have names with the prefix urn:ihe:???domain initials???: Format codes defined by the Affinity Domain shall have names with the prefix urn:ad:???name of affinity domain???: Affinity Domains shall be unique. The prefixes described here are not assumed to be exhaustive. |
| **DocumentReference.context** |  |
| Short name | event codes, service Start & Stop time, and facility type |
| Definition | Clinical context of document - eventCodeList, serviceStart & Stop time, and facility type. |
| **DocumentReference.context.encounter** |  |
| **DocumentReference.context.event** |  |
| Short name | XDSDocumentEntry.eventCodeList |
| Definition | This list of codes represents the main clinical acts, such as a colonoscopy or an appendectomy, being documented. In some cases, the event is inherent in the typeCode, such as a "History and Physical Report" in which the procedure being documented is necessarily a "History and Physical" act. |
| Comments | An event can further specialize the act inherent in the typeCode, such as where it is simply "Procedure Report" and the procedure was a "colonoscopy". If one or more eventCodes are included, they shall not conflict with the values inherent in the classCode, practiceSettingCode or typeCode, as such a conflict would create an ambiguous situation. This short list of codes is provided to be used as ???key words??? for certain types of queries. |
| **DocumentReference.context.period** |  |
| Short name | XDSDocumentEntry.serviceStartTime & XDSDocumentEntry.serviceStopTime |
| Definition | The start and stop time of the service being documented took place. |
| Comments | At least a start date SHALL be provided. |
| **DocumentReference.context.facilityType** |  |
| Short name | XDSDocumentEntry.healthCareFacilityTypeCode |
| Definition | This code represents the type of organizational setting of the clinical encounter during which the documented act occurred. |
| Comments | In some cases, the setting of the encounter is inherent in the typeCode, such as "Diabetes Clinic Progress Note". healthcareFacilityTypeCode shall be equivalent to or further specialize the value inherent in the typeCode; for example, where the typeCode is simply "Clinic Progress Note" and the value of healthcareFacilityTypeCode is "private clinic". The value shall not conflict with the value inherent in the typeCode, as such a conflict would create an ambiguous situation. |
| **DocumentReference.context.practiceSetting** |  |
| Short name | XDSDocumentEntry.practiceSettingCode |
| Definition | XDSDocumentEntry.practiceSettingCode. |

## http://hl7.org/fhir/StructureDefinition/xdsdocumentmanifest

|  |  |
| --- | --- |
| **DocumentManifest** | Document Manifest |
| Short name | SubmissionSet |
| Definition | A manifest that defines a set of documents. |
| **DocumentManifest.confidentiality** |  |
| Short name | SubmissionSet.confidentialityCode |
| Definition | A code specifying the level of confidentiality of this set of Documents. |
| **DocumentManifest.supersedes** |  |
| Short name | todo |
| Definition | If this document manifest replaces another. |
| **DocumentManifest.identifier** |  |
| Short name | SubmissionSet.uniqueId |
| Definition | A globally unique identifier for the SubmissionSet assigned by the creating entity. |
| **DocumentManifest.subject** |  |
| Short name | SubmissionSet.patientId |
| Definition | the subject of care whose longitudinal record is being reflected in this SubmissionSet. |
| **DocumentManifest.recipient** |  |
| Short name | SubmissionSet.intendedRecipient |
| Definition | The organization(s) or person(s) for whom the SubmissionSet is intended. |
| **DocumentManifest.type** |  |
| Short name | SubmissionSet.contentTypeCode |
| Definition | The code specifying the type of clinical activity that resulted in placing the documents in this SubmissionSet. |
| **DocumentManifest.author** |  |
| Short name | SubmissionSet.author |
| Definition | The humans and/or machines that authored the document in the SubmissionSet. This attribute contains the sub-attributes: authorInstitution, authorPerson, authorRole, authorSpecialty. |
| **DocumentManifest.created** |  |
| Short name | SubmissionSet.submissionTime |
| Definition | Point in time at the creating entity when the SubmissionSet was created. |
| **DocumentManifest.source** |  |
| Short name | SubmissionSet.sourceId |
| Definition | OID identifying the instance of the creating entity that contributed the SubmissionSet. |
| **DocumentManifest.status** |  |
| Short name | SubmissionSet.availabilityStatus |
| Definition | The lifecycle status of the SubmissionSet. |
| Binding Description | The status of the document reference |
| **DocumentManifest.description** |  |
| Short name | SubmissionSet.title |
| Definition | Human-readable description of the source document. This is sometimes known as the "title". |
| **DocumentManifest.content** |  |
| Short name | SubmissionSet.documentEntry |
| Definition | The list of resources that describe the parts of this document reference. Usually, these would be document references, but direct references to binary attachments and images are also allowed. |

# Clinical Genomics

## http://hl7.org/fhir/StructureDefinition/familymemberhistory-genetic

|  |  |
| --- | --- |
| **FamilyMemberHistory** | Family Member History |
| **FamilyMemberHistory.extension** |  |
| **FamilyMemberHistory.extension** |  |

## http://hl7.org/fhir/StructureDefinition/genetics

|  |  |
| --- | --- |
| **Observation** | Observation |
| **Observation.extension** |  |
| Short name | GenomeBuild |
| Definition | The Genome Build used for reference, following GRCh build versions e.g. 'GRCh 37'. Version number must be included if a versioned release of a primary build was used. |
| **Observation.extension** |  |
| Short name | Chr |
| Definition | The chromosome containing the genetic finding. The value set binds to Gene code system. |
| **Observation.extension** |  |
| Short name | Genomic Start |
| Definition | Inclusive 0-based nucleotide position for start of genomic finding on the positive (+) genomics strand. |
| **Observation.extension** |  |
| Short name | GenomicEnd |
| Definition | Exclusive 0-based nucleotide position for end of genomic finding on the positive (+) genomic strand. |
| **Observation.extension** |  |
| Short name | RefAllele |
| Definition | Nucleotide(s) from genomic start to genomic stop on the positive (+) strand of the genomic reference sequence. |
| **Observation.extension** |  |
| Short name | ObsAllele |
| Definition | Oserved nucleotides from genomic start to genomic stop on the positive (+) genomic strand. |
| **Observation.extension** |  |
| Short name | TransReferenceSeqID |
| Definition | Reference identifier for cDNA transcript, with version, from NCBI's RefSeq or ENSEMBL. |
| **Observation.extension** |  |
| Short name | ProteinReferenceSeq |
| Definition | Reference identifier for protein transcript, with version, from NCBI's RefSeq or ENSEMBL. |
| **Observation.extension** |  |
| Short name | CIGAR |
| Definition | Extended CIGAR string for aligning the sequence with reference bases. See detailed documentation [here](http://support.illumina.com/help/SequencingAnalysisWorkflow/Content/Vault/Informatics/Sequencing\_Analysis/CASAVA/swSEQ\_mCA\_ExtendedCIGARFormat.htm). |
| **Observation.extension** |  |
| Short name | HGVSdnaVariant |
| Definition | cDNA variant following HGVS nomenclature on the given TranscriptReferenceSequenceId. |
| **Observation.extension** |  |
| Short name | VariantId |
| Definition | Identifier for variant. If a germline variant, ClinVar or dbSNP identifier should be used. If a somatic variant, COSMIC identifier should be used, unless in ClinVar then either maybe used. Need to provide the code system used (ClinVar, dbSNP, COSMIC). |
| **Observation.extension** |  |
| Short name | DNAvariantType |
| Definition | Codified type for associated DNA Sequence Variation. DNA Sequence Variations use the HGVS notation which implies the DNA Sequence Variation Type, but the concurrent use of this code will allow a standard and explicit type for technical and display convenience. LOINC Answer List values 48019-4 or Sequence Ontology vaues. |
| **Observation.extension** |  |
| Short name | HGVSproteinChange |
| Definition | Protein variant following HGVS nomenclature on the given ProteinReferenceSequenceId. |
| **Observation.extension** |  |
| Short name | ProteinChangeType |
| Definition | Type of variation expressed using Sequence Ontology or LOINC answer list 48006-1. |
| **Observation.extension** |  |
| Short name | Gene |
| Definition | Gene region in which the sequence is found. Currently values from HGNC are supported. Other systems or genes not defined in HGNC (e.g. BCR-ABL fusion gene) can be added by using local extension. |
| **Observation.extension** |  |
| Short name | RegionName |
| Definition | Details of exonic location of variant (e.g. Exon 1). |
| **Observation.extension** |  |
| Short name | AlleleName |
| Definition | Common name for variant or gene allele. |
| **Observation.extension** |  |
| Short name | GenomicSource |
| Definition | Genomic source class means category of source of tissue sample used to determine the sequence. Here is the loinc answer List for Allelic state:1. Germline LA6683-2; 2. Somatic LA6684-0; 3. Prenatal LA6685-7; 4. Likely Germline LA18194-3; 5. Likely Somatic LA18195-0; 6. Likely Prenatal LA18196-8; 7. Unknown Genomic Origin LA18197-6. |
| **Observation.extension** |  |
| Short name | Species |
| Definition | supports testing of human, viruses, and bacteria. |
| **Observation.extension** |  |
| Short name | Result |
| Definition | Results from genetic profile (e.g. One gene mutation with one type variation observed in a patient). It makes genetic profile support various genetic test(e.g. A genetic test reporting a list of gene mutations). |
| **Observation.extension** |  |
| Short name | AssessedCondition |
| Definition | Used to denote condition context for genetic testing, which may influence reported variants and interpretation for large genomic testing panels e.g. lung cancer or familial breast cancer. |
| **Observation.extension** |  |
| Short name | AllelicState |
| Definition | The level of occurrence of a single DNA Sequence Variation within a set of chromosomes. Heterozygous indicates the DNA Sequence Variation is only present in one of the two genes contained in homologous chromosomes. Homozygous indicates the DNA Sequence Variation is present in both genes contained in homologous chromosomes. Hemizygous indicates the DNA Sequence Variation exists in the only single copy of a gene in a non- homologous chromosome (the male X and Y chromosome are non-homologous). Hemiplasmic indicates that the DNA Sequence Variation is present in some but not all of the copies of mitochondrial DNA. Homoplasmic indicates that the DNA Sequence Variation is present in all of the copies of mitochondrial DNA. Here is the loinc answer List for Allelic state:1. Heteroplasmic (LA6703-8); 2. Homoplasmic (LA6704-6); 3. Homozygous (LA6705-3); 4. Heterozygous (LA6706-1); 5. Hemizygous (LA6707-9). |
| **Observation.extension** |  |
| Short name | AllelicFrequency |
| Definition | Allele frequencies. |
| **Observation.extension** |  |
| Short name | CopyNumberEvent |
| Definition | Values: amplificaiton/deletion/LOH. |
| **Observation.extension** |  |
| Short name | ReadCoverage |
| Definition | Coverage (read depth or depth) is the average number of reads representing a given nucleotide in the reconstructed sequence. |
| **Observation.component** |  |

# Clinical Quality Information - QICore

# Community Based Collaborative Care

## http://hl7.org/fhir/StructureDefinition/consentdirective

|  |  |
| --- | --- |
| **Contract** | Contract |
| Short name | Consent Directive |
| Definition | A record of a healthcare consumerâ€™s privacy policy, which is in accordance with governing jurisdictional and organization privacy policies that grant or withhold consent: â€¢ To one or more identified entities in a defined role â€¢ To perform one or more operations (e.g., collect, access, use, disclose, amend, or delete) â€¢ On an instance or type of individually identifiable health information [IIHI] â€¢ For a purpose such as treatment, payment, operations, research, public health, quality measures, health status evaluation by third parties, or marketing â€¢ Under certain conditions, e.g., when unconscious â€¢ For specified time period, e.g., effective and expiration dates â€¢ In certain context, e.g., in an emergency  A consent directive is an instance of governing jurisdictional and organization privacy policies, which may or may not be backed up by a signed document (paper or electronic). [HITSP TP30]. |
| **Contract.identifier** |  |
| Short name | Consent Directive identifier |
| Definition | Unique identifier for this Consent Directive. |
| **Contract.issued** |  |
| Short name | When this Consent Directive was issued |
| Definition | Date and time when this Consent Directive was executed and became effective. |
| **Contract.applies** |  |
| Short name | Effective time |
| Definition | Time period during which this Consent Directive is in effect. |
| **Contract.subject** |  |
| Short name | Subject of this Consent Directive |
| Definition | Patient information and actions taken on that information that are governed by this Consent Directive. |
| **Contract.authority** |  |
| Short name | Authority under which this Consent Directive has standing |
| Definition | A formally recognized grouping of people, principals, organizations, or jurisdictions with legal standing to promulgate, administer, and enforce privacy policies and applicable Consent Directives. |
| **Contract.domain** |  |
| Short name | Domain in which this Consent Directive applies |
| Definition | Recognized governance framework or system operating with a circumscribed scope in accordance with specified principles, policies, processes or procedures for managing rights, actions, or behaviors of parties or principals relative to privacy protection and control of the collection, access, use and disclosure of resources. |
| Synonym | scope of governance jurisdication |
| **Contract.type** |  |
| Short name | Consent Directive Type |
| Definition | Specific type of patient privacy Consent Directive reflecting the range of patient discretion over granting of rights to patient information and actions that may be taken on that information. E.g., Opt-in, opt-out, Share All (such as authorization to disclose to payer for payment purposes or benefit eligibility), Share Partial(such as Title 38 Section 7332 and 42 CFR Part 2), Implied Consent, such as a HIPAA Notice of Privacy Practices. |
| **Contract.subType** |  |
| Short name | Consent Directive Subtype |
| Definition | A specialized type of an overarching or more general Consent Directive, such as a patient's right to opt-out of a Patient Directory under HIPAA or a multiparty 42 CFR Part 2 consent used in a health information exchange context by a Qualified Service Organization. |
| **Contract.action** |  |
| Short name | Consent Directive Action |
| Definition | Action stipulated by this Consent Directive. |
| **Contract.actionReason** |  |
| Short name | Consent Directive Action Reason |
| Definition | Reason for action stipulated by this Consent Directive. |
| **Contract.actor** |  |
| Short name | Consent Directive Actor |
| Definition | List of Consent Directive actors. |
| **Contract.actor.entity** |  |
| Short name | Consent Directive Actor Type |
| Definition | Who or what actors are assigned roles in this Consent Directive. |
| **Contract.actor.role** |  |
| Short name | Consent Directive Actor Role |
| Definition | Role type of actors assigned roles in this Consent Directive. |
| **Contract.valuedItem** |  |
| Short name | Contract Valued Item |
| Definition | Contract Valued Item List. |
| **Contract.valuedItem.entity[x]** |  |
| Short name | Contract Valued Item Type |
| Definition | Specific type of Contract Valued Item that may be priced. |
| **Contract.valuedItem.identifier** |  |
| Short name | Contract Valued Item Identifier |
| Definition | Identifies a Contract Valued Item instance. |
| **Contract.valuedItem.effectiveTime** |  |
| Short name | Contract Valued Item Effective Time |
| Definition | Indicates the time during which this Contract ValuedItem information is effective. |
| **Contract.valuedItem.quantity** |  |
| Short name | Count of Contract Valued Items |
| Definition | Specifies the units by which the Contract Valued Item is measured or counted, and quantifies the countable or measurable Contract Valued Item instances. |
| **Contract.valuedItem.unitPrice** |  |
| Short name | Contract Valued Item fee, charge, or cost. |
| Definition | A Contract Valued Item unit valuation measure. |
| **Contract.valuedItem.factor** |  |
| Short name | Contract Valued Item Price Scaling Factor |
| Definition | A real number that represents a multiplier used in determining the overall value of the Contract Valued Item delivered. The concept of a Factor allows for a discount or surcharge multiplier to be applied to a monetary amount. |
| **Contract.valuedItem.points** |  |
| Short name | Contract Valued Item Difficulty Scaling Factor |
| Definition | An amount that expresses the weighting (based on difficulty, cost and/or resource intensiveness) associated with the Contract Valued Item delivered. The concept of Points allows for assignment of point values for a Contract Valued Item, such that a monetary amount can be assigned to each point. |
| **Contract.valuedItem.net** |  |
| Short name | Total Contract Valued Item Value |
| Definition | Expresses the product of the Contract Valued Item unitQuantity and the unitPriceAmt. For example, the formula: unit Quantity \* unit Price (Cost per Point) \* factor Number \* points = net Amount. Quantity, factor and points are assumed to be 1 if not supplied. |
| **Contract.signer** |  |
| Short name | Consent Directive Signer |
| Definition | Party signing this Consent Directive. |
| **Contract.signer.type** |  |
| Short name | Consent Directive Signer Type |
| Definition | Role of this Consent Directive signer, e.g., patient who is Consent Directive Grantee, the Substitute Decision Maker such as a person with Power of Attorney to whom the patient has granted or delegated rights to execute a Consent Directive on the patient's behalf, a notary public or witness. |
| **Contract.signer.party** |  |
| Short name | Consent Directive Signatory party |
| Definition | Party which is a signatory to this Consent Directive. |
| **Contract.signer.signature** |  |
| Short name | Consent Directive Documentation Signature |
| Definition | Legally binding Consent Directive DSIG signature contents in Base64. |
| **Contract.term** |  |
| Short name | Consent Directive Term List |
| Definition | One or more Consent DirectiveProvisions, which may be related and conveyed as a group, and may contain nested groups. |
| **Contract.term.identifier** |  |
| Short name | Consent Directive Term identifier |
| Definition | Unique identifier for this particular Consent Directive Provision. |
| **Contract.term.issued** |  |
| Short name | Consent Directive Term Issue Date Time |
| Definition | When this Consent Directive Provision was issued. |
| **Contract.term.applies** |  |
| Short name | Consent Directive Term Effective Time |
| Definition | Relevant time or time-period when this Consent Directive Provision is applicable. |
| **Contract.term.type** |  |
| Short name | Consent Directive Term Type |
| Definition | Type of Consent Directive Provision such as specific requirements, purposes for actions, obligations, prohibitions, e.g., life time maximum benefit. |
| **Contract.term.subType** |  |
| Short name | Consent Directive Term Subtype |
| Definition | Subtype of this Consent Directive Provision, e.g., life time maximum payment for a contract term for specific valued item, e.g., disability payment. |
| **Contract.term.subject** |  |
| Short name | Subject of this Consent Directive Term |
| Definition | Who or what this Consent Directive Provision is about. |
| **Contract.term.action** |  |
| Short name | Consent Directive Term Action |
| Definition | Action stipulated by this Consent Directive Provision. |
| **Contract.term.actionReason** |  |
| Short name | Consent Directive Term Action Reason |
| Definition | Reason or purpose for the action stipulated by this Consent Directive Provision. |
| **Contract.term.actor** |  |
| Short name | Consent Directive Term Actor List |
| Definition | List of actors participating in this Consent Directive Provision. |
| **Contract.term.actor.entity** |  |
| Short name | Consent Directive Term Actor |
| Definition | The actor assigned a role in this Consent Directive Provision. |
| **Contract.term.actor.role** |  |
| Short name | Consent Directive Term Actor Role |
| Definition | Role played by the actor assigned this role in this Consent Directive Provision. |
| **Contract.term.text** |  |
| Short name | Human readable Consent Directive term text |
| Definition | Human readable form of this Consent Directive Provision. |
| **Contract.term.valuedItem** |  |
| Short name | Contract Term Valued Item |
| Definition | Contract Provision Valued Item List. |
| **Contract.term.valuedItem.entity[x]** |  |
| Short name | Contract Term Valued Item Type |
| Definition | Specific type of Contract Provision Valued Item that may be priced. |
| **Contract.term.valuedItem.identifier** |  |
| Short name | Contract Term Valued Item Identifier |
| Definition | Identifies a Contract Provision Valued Item instance. |
| **Contract.term.valuedItem.effectiveTime** |  |
| Short name | Contract Term Valued Item Effective Time |
| Definition | Indicates the time during which this Contract Term ValuedItem information is effective. |
| **Contract.term.valuedItem.quantity** |  |
| Short name | Contract Term Valued Item Count |
| Definition | Specifies the units by which the Contract Provision Valued Item is measured or counted, and quantifies the countable or measurable Contract Term Valued Item instances. |
| **Contract.term.valuedItem.unitPrice** |  |
| Short name | Contract Term Valued Item fee, charge, or cost. |
| Definition | A Contract Provision Valued Item unit valuation measure. |
| **Contract.term.valuedItem.factor** |  |
| Short name | Contract Term Valued Item Price Scaling Factor |
| Definition | A real number that represents a multiplier used in determining the overall value of the Contract Provision Valued Item delivered. The concept of a Factor allows for a discount or surcharge multiplier to be applied to a monetary amount. |
| **Contract.term.valuedItem.points** |  |
| Short name | Contract Term Valued Item Difficulty Scaling Factor |
| Definition | An amount that expresses the weighting (based on difficulty, cost and/or resource intensiveness) associated with the Contract Provision Valued Item delivered. The concept of Points allows for assignment of point values for a Contract Provision Valued Item, such that a monetary amount can be assigned to each point. |
| **Contract.term.valuedItem.net** |  |
| Short name | Total Contract Term Valued Item Value |
| Definition | Expresses the product of the Contract Provision Valued Item unitQuantity and the unitPriceAmt. For example, the formula: unit Quantity \* unit Price (Cost per Point) \* factor Number \* points = net Amount. Quantity, factor and points are assumed to be 1 if not supplied. |
| **Contract.term.group** |  |
| Short name | Nested Consent DirectiveTerm Group |
| Definition | Nested group of Consent Directive Provision. |
| **Contract.binding[x]** |  |
| Short name | Binding Consent Directive |
| Definition | Legally binding onsent Directive Provision. This is the signed and legally recognized representation of the Consent Directive. that is considered the "source of truth", which would be the basis for legal action related to enforcement of the onsent Directive Provision. |
| **Contract.friendly** |  |
| Short name | Consent Directive Friendly Language |
| Definition | The "patient friendly language" versionof the Consent Directive in whole or in parts. "Patient friendly language" means the representation of the Consent Directive and Consent Directive Provisions in a manner that is readily accessible and understandable by a layperson in accordance with best practices for communication styles that ensure that those agreeing to or signing the Consent Directive understand the roles, actions, obligations, responsibilities, and implication of the agreement. |
| **Contract.friendly.content[x]** |  |
| Short name | Easily comprehended representation of this Consent Directive |
| Definition | Human readable rendering of this Consent Directive in a format and representation intended to enhance comprehension and ensure understandability. |
| **Contract.legal** |  |
| Short name | Consent Directive Legal Language |
| Definition | List of Legal expressions or representations of this Consent Directive. |
| **Contract.legal.content[x]** |  |
| Short name | Consent Directive Legal Text |
| Definition | Legal Consent Directive text in human renderable form. |
| **Contract.rule** |  |
| Short name | Computable Consent Directive Language |
| Definition | List of Computable Policy Rule Language Representations of this Consent Directive. |
| **Contract.rule.content[x]** |  |
| Short name | Computable Consent Directive Rules |
| Definition | Computable Consent Directive conveyed using a policy rule language (e.g. XACML, DKAL, SecPal). |

# Electronic Health Record

## http://hl7.org/fhir/StructureDefinition/ehrsrle-auditevent

|  |  |
| --- | --- |
| **AuditEvent** | Audit Event |
| **AuditEvent.event** |  |
| **AuditEvent.event.extension** |  |
| **AuditEvent.event.extension** |  |
| **AuditEvent.event.extension** |  |
| **AuditEvent.event.type** |  |
| **AuditEvent.event.subtype** |  |
| **AuditEvent.event.action** |  |
| **AuditEvent.event.dateTime** |  |
| **AuditEvent.participant** |  |
| **AuditEvent.participant.role** |  |
| **AuditEvent.participant.reference** |  |
| **AuditEvent.participant.userId** |  |
| **AuditEvent.participant.requestor** |  |
| **AuditEvent.participant.network** |  |
| **AuditEvent.participant.network.identifier** |  |
| **AuditEvent.participant.network.type** |  |
| **AuditEvent.source** |  |
| **AuditEvent.source.site** |  |
| **AuditEvent.source.identifier** |  |
| **AuditEvent.source.type** |  |
| **AuditEvent.object** |  |
| **AuditEvent.object.sensitivity** |  |
| **AuditEvent.object.identifier** |  |
| **AuditEvent.object.reference** |  |
| **AuditEvent.object.type** |  |
| **AuditEvent.object.role** |  |
| **AuditEvent.object.lifecycle** |  |

## http://hl7.org/fhir/StructureDefinition/ehrsrle-provenance

|  |  |
| --- | --- |
| **Provenance** | Provenance |
| **Provenance.target** |  |
| **Provenance.period** |  |
| **Provenance.recorded** |  |
| **Provenance.reason** |  |
| Binding Description | Indicates the why the event occurred |
| **Provenance.location** |  |
| **Provenance.policy** |  |
| **Provenance.agent** |  |
| **Provenance.agent.display** |  |
| **Provenance.agent.reference** |  |
| **Provenance.agent.type** |  |
| **Provenance.agent.role** |  |
| **Provenance.entity** |  |
| **Provenance.entity.role** |  |
| **Provenance.entity.type** |  |
| **Provenance.entity.reference** |  |
| **Provenance.entity.display** |  |
| **Provenance.entity.agent** |  |
| **Provenance.signature** |  |

# Health Care Devices

## http://hl7.org/fhir/StructureDefinition/devicemetricobservation

|  |  |
| --- | --- |
| **Observation** | Observation |
| **Observation.bodySite[x]** |  |
| **Observation.identifier** |  |
| **Observation.status** |  |
| **Observation.code** |  |
| **Observation.subject** |  |
| **Observation.encounter** |  |
| **Observation.effectiveDateTime** |  |
| **Observation.issued** |  |
| **Observation.value[x]** |  |
| **Observation.dataAbsentReason** |  |
| **Observation.interpretation** |  |
| **Observation.comments** |  |
| **Observation.method** |  |
| **Observation.specimen** |  |
| **Observation.device** |  |
| **Observation.referenceRange** |  |
| **Observation.related** |  |
| **Observation.related.type** |  |
| **Observation.related.target** |  |

# Infrastructure and Messaging - Data Access Framework

# Orders and Observations - Structured Data Capture

## http://hl7.org/fhir/StructureDefinition/sdcde-dataelement

|  |  |
| --- | --- |
| **DataElement** | Data Element |
| Constraint Text | One and only one DataElement.code must have is-data-element-concept set to "true" |
| **DataElement.extension** |  |
| **DataElement.extension** |  |
| **DataElement.extension** |  |
| **DataElement.extension** |  |
| **DataElement.extension** |  |
| **DataElement.extension** |  |
| **DataElement.url** |  |
| **DataElement.identifier** |  |
| **DataElement.version** |  |
| **DataElement.name** |  |
| **DataElement.status** |  |
| **DataElement.experimental** |  |
| **DataElement.publisher** |  |
| **DataElement.contact** |  |
| **DataElement.contact.extension** |  |
| **DataElement.contact.name** |  |
| **DataElement.contact.telecom** |  |
| **DataElement.date** |  |
| **DataElement.useContext** |  |
| **DataElement.useContext.extension** |  |
| **DataElement.copyright** |  |
| **DataElement.stringency** |  |
| **DataElement.mapping** |  |
| **DataElement.mapping.identity** |  |
| **DataElement.mapping.uri** |  |
| **DataElement.mapping.name** |  |
| **DataElement.mapping.comments** |  |
| **DataElement.mapping** |  |
| Constraint Text | Property extension can only be specified if ObjectClass extension is present |
| **DataElement.mapping.identity** |  |
| **DataElement.mapping.uri** |  |
| **DataElement.mapping.name** |  |
| **DataElement.mapping.comments** |  |
| **DataElement.element** |  |
| **DataElement.element.extension** |  |
| Comments | ...Need at least one primary question and one alternate question. |
| **DataElement.element.extension** |  |
| **DataElement.element.extension** |  |
| **DataElement.element.extension** |  |
| **DataElement.element.extension** |  |
| **DataElement.element.extension** |  |
| **DataElement.element.path** |  |
| **DataElement.element.name** |  |
| **DataElement.element.label** |  |
| **DataElement.element.code** |  |
| Binding Description | Codes representing the data element concept for a data element |
| **DataElement.element.code.extension** |  |
| **DataElement.element.definition** |  |
| **DataElement.element.comments** |  |
| **DataElement.element.requirements** |  |
| **DataElement.element.alias** |  |
| **DataElement.element.min** |  |
| **DataElement.element.max** |  |
| **DataElement.element.type** |  |
| **DataElement.element.type.code** |  |
| **DataElement.element.defaultValue[x]** |  |
| **DataElement.element.meaningWhenMissing** |  |
| **DataElement.element.example[x]** |  |
| **DataElement.element.minValue[x]** |  |
| **DataElement.element.maxValue[x]** |  |
| **DataElement.element.maxLength** |  |
| **DataElement.element.condition** |  |
| **DataElement.element.constraint** |  |
| **DataElement.element.constraint.key** |  |
| **DataElement.element.constraint.requirements** |  |
| **DataElement.element.constraint.severity** |  |
| **DataElement.element.constraint.human** |  |
| **DataElement.element.constraint.xpath** |  |
| **DataElement.element.mustSupport** |  |
| **DataElement.element.binding** |  |
| **DataElement.element.binding.strength** |  |
| **DataElement.element.binding.description** |  |
| **DataElement.element.binding.valueSetReference** |  |
| Constraint Text | Must have data element permitted value concept map extension if and only if data element permitted value valueset extension is present |
| **DataElement.element.binding.valueSetReference.extension** |  |
| **DataElement.element.binding.valueSetReference.extension** |  |
| **DataElement.element.mapping** |  |
| Definition | A mapping that defines the data element in terms of the SDC project's ObjectClass and Property value sets. |
| **DataElement.element.mapping.extension** |  |
| **DataElement.element.mapping.extension.valueCoding** |  |
| Binding Description | Codes representing the ISO 11179 Object Class for a data element |
| **DataElement.element.mapping.extension** |  |
| **DataElement.element.mapping.extension.valueCoding** |  |
| Binding Description | Codes representing the ISO 11179 Object Class Property for a data element |
| **DataElement.element.mapping.identity** |  |
| **DataElement.element.mapping.map** |  |
| Definition | This should be expressed as "[uri for object class code system]#[code for object class code system] | [uri for property code system]#[code for property code system]". |
| Comments | We express the mapping even though the class and property extensions already convey the data to ensure that systems that don't recognize the extensions still understand the mappings. |
| **DataElement.element.mapping** |  |
| **DataElement.element.mapping.extension** |  |
| **DataElement.element.mapping.identity** |  |
| **DataElement.element.mapping.language** |  |
| **DataElement.element.mapping.map** |  |

## http://hl7.org/fhir/StructureDefinition/sdcde-valueset

|  |  |
| --- | --- |
| **ValueSet** | Value Set |
| **ValueSet.extension** |  |
| **ValueSet.extension** |  |
| **ValueSet.extension** |  |
| **ValueSet.extension** |  |
| **ValueSet.url** |  |
| **ValueSet.identifier** |  |
| **ValueSet.version** |  |
| **ValueSet.name** |  |
| **ValueSet.status** |  |
| **ValueSet.experimental** |  |
| **ValueSet.publisher** |  |
| **ValueSet.date** |  |
| **ValueSet.lockedDate** |  |
| **ValueSet.description** |  |
| **ValueSet.useContext** |  |
| **ValueSet.immutable** |  |
| **ValueSet.extensible** |  |
| **ValueSet.codeSystem** |  |
| **ValueSet.codeSystem.system** |  |
| **ValueSet.codeSystem.version** |  |
| **ValueSet.codeSystem.caseSensitive** |  |
| **ValueSet.codeSystem.concept** |  |
| **ValueSet.codeSystem.concept.extension** |  |
| Comments | The presence of a sort order implies that sort order is important. |
| **ValueSet.codeSystem.concept.code** |  |
| **ValueSet.codeSystem.concept.abstract** |  |
| **ValueSet.codeSystem.concept.display** |  |
| **ValueSet.codeSystem.concept.definition** |  |
| **ValueSet.codeSystem.concept.concept** |  |
| **ValueSet.compose** |  |
| **ValueSet.compose.import** |  |
| **ValueSet.compose.include** |  |
| **ValueSet.compose.include.mode** |  |
| **ValueSet.compose.include.system** |  |
| **ValueSet.compose.include.version** |  |
| **ValueSet.compose.include.concept** |  |
| **ValueSet.compose.include.concept.extension** |  |
| Comments | The presence of a sort order implies that sort order is important. |
| **ValueSet.compose.include.concept.code** |  |
| **ValueSet.compose.include.concept.display** |  |
| **ValueSet.compose.include.filter** |  |
| **ValueSet.compose.include.filter.property** |  |
| **ValueSet.compose.include.filter.op** |  |
| **ValueSet.compose.include.filter.value** |  |
| **ValueSet.compose.exclude** |  |
| **ValueSet.expansion** |  |
| **ValueSet.expansion.identifier** |  |
| **ValueSet.expansion.timestamp** |  |
| **ValueSet.expansion.contains** |  |
| **ValueSet.expansion.contains.extension** |  |
| Comments | The presence of a sort order implies that sort order is important. |
| **ValueSet.expansion.contains.extension** |  |
| **ValueSet.expansion.contains.extension** |  |
| **ValueSet.expansion.contains.system** |  |
| **ValueSet.expansion.contains.abstract** |  |
| **ValueSet.expansion.contains.version** |  |
| **ValueSet.expansion.contains.code** |  |
| **ValueSet.expansion.contains.display** |  |
| **ValueSet.expansion.contains.contains** |  |

# Orders and Observations - US Lab

# Orders and Observations

## http://hl7.org/fhir/StructureDefinition/elementdefinition-de

|  |  |
| --- | --- |
| **ElementDefinition** | Element Definition |
| **ElementDefinition.extension** |  |
| **ElementDefinition.extension** |  |
| **ElementDefinition.path** |  |
| **ElementDefinition.representation** |  |
| **ElementDefinition.name** |  |
| **ElementDefinition.label** |  |
| **ElementDefinition.code** |  |
| **ElementDefinition.slicing** |  |
| **ElementDefinition.slicing.discriminator** |  |
| **ElementDefinition.slicing.description** |  |
| **ElementDefinition.slicing.ordered** |  |
| **ElementDefinition.slicing.rules** |  |
| **ElementDefinition.short** |  |
| **ElementDefinition.definition** |  |
| **ElementDefinition.comments** |  |
| **ElementDefinition.requirements** |  |
| **ElementDefinition.alias** |  |
| **ElementDefinition.min** |  |
| **ElementDefinition.max** |  |
| **ElementDefinition.type** |  |
| **ElementDefinition.type.code** |  |
| **ElementDefinition.type.profile** |  |
| **ElementDefinition.type.aggregation** |  |
| **ElementDefinition.nameReference** |  |
| **ElementDefinition.defaultValue[x]** |  |
| Comments | ... This element should only be used on child elements of complex data elements. |
| **ElementDefinition.meaningWhenMissing** |  |
| Comments | ... This element should only be used on child elements of complex data elements. |
| **ElementDefinition.fixed[x]** |  |
| **ElementDefinition.pattern[x]** |  |
| **ElementDefinition.example[x]** |  |
| **ElementDefinition.maxLength** |  |
| **ElementDefinition.condition** |  |
| **ElementDefinition.constraint** |  |
| **ElementDefinition.constraint.name** |  |
| **ElementDefinition.constraint.key** |  |
| **ElementDefinition.constraint.severity** |  |
| **ElementDefinition.constraint.human** |  |
| **ElementDefinition.constraint.xpath** |  |
| **ElementDefinition.mustSupport** |  |
| **ElementDefinition.isModifier** |  |
| **ElementDefinition.isSummary** |  |
| **ElementDefinition.binding** |  |
| **ElementDefinition.binding.strength** |  |
| **ElementDefinition.binding.description** |  |
| **ElementDefinition.binding.valueSet[x]** |  |
| **ElementDefinition.mapping** |  |
| **ElementDefinition.mapping.identity** |  |
| **ElementDefinition.mapping.language** |  |
| **ElementDefinition.mapping.map** |  |

# Health Level Seven, Inc. - CDS WG

# Health Level Seven, Inc. - Clinical Quality Information WG

## http://hl7.org/fhir/StructureDefinition/measurereport

|  |  |
| --- | --- |
| **Composition** | Composition |
| Short name | A set of resources composed into a single coherent clinical statement with clinical attestation |
| Definition | A set of healthcare-related information that is assembled together into a single logical document that provides a single coherent statement of meaning, establishes its own context and that has clinical attestation with regard to who is making the statement. While a Composition defines the structure, it does not actually contain the content: rather the full content of a document is contained in a Bundle, of which the Composition is the first resource contained. |
| **Composition.identifier** |  |
| Short name | Logical identifier of composition (version-independent) |
| Definition | Logical Identifier for the composition, assigned when created. This identifier stays constant as the composition is changed over time. |
| **Composition.date** |  |
| Short name | Composition editing time |
| Definition | The composition editing time, when the composition was last logically changed by the author. |
| **Composition.type** |  |
| Short name | Kind of composition (LOINC if possible) |
| Definition | Specifies the particular kind of composition (e.g. History and Physical, Discharge Summary, Progress Note). This usually equates to the purpose of making the composition. |
| **Composition.class** |  |
| Short name | Categorization of Composition |
| Definition | A categorization for the type of the composition. This may be implied by or derived from the code specified in the Composition Type. |
| **Composition.title** |  |
| Short name | Human Readable name/title |
| Definition | Official human-readable label for the composition. |
| **Composition.status** |  |
| Definition | The workflow/clinical status of this composition. The status is a marker for the clinical standing of the document. |
| **Composition.confidentiality** |  |
| Short name | As defined by affinity domain |
| Definition | The code specifying the level of confidentiality of the Composition. |
| **Composition.subject** |  |
| Short name | Who and/or what the composition is about |
| Definition | Who or what the composition is about. The composition can be about a person, (patient or healthcare practitioner), a device (I.e. machine) or even a group of subjects (such as a document about a herd of livestock, or a set of patients that share a common exposure). |
| Comments | if a report contains the results of more than one measure, each measure should be measuring the same entity. |
| Requirements | For a mreasure report, the subject indicates who ior what is being measured? For example, the provider, hospital, or health plan that is being measured by the scores included in the report. |
| **Composition.author** |  |
| Short name | Who and/or what authored the composition |
| Definition | Identifies who is responsible for the information in the composition. (Not necessarily who typed it in.). |
| **Composition.attester** |  |
| Short name | Attests to accuracy of composition |
| Definition | A participant who has attested to the accuracy of the composition/document. |
| **Composition.attester.mode** |  |
| Definition | The type of attestation the authenticator offers. |
| **Composition.attester.time** |  |
| Short name | When composition attested |
| Definition | When composition was attested by the party. |
| **Composition.attester.party** |  |
| Short name | Who attested the composition |
| Definition | Who attested the composition in the specified way. |
| **Composition.custodian** |  |
| Short name | Org which maintains the composition |
| Definition | Identifies the organization or group who is responsible for ongoing maintenance of and access to the composition/document information. |
| **Composition.event** |  |
| Short name | The clinical service(s) being documented |
| Definition | The clinical service, such as a colonoscopy or an appendectomy, being documented. |
| Requirements | The report's results will typically span many cases that may each span many events. |
| **Composition.event.code** |  |
| Short name | Code(s) that apply to the event being documented |
| Definition | This list of codes represents the main clinical acts, such as a colonoscopy or an appendectomy, being documented. In some cases, the event is inherent in the typeCode, such as a "History and Physical Report" in which the procedure being documented is necessarily a "History and Physical" act. |
| **Composition.event.period** |  |
| Short name | The period covered by the documentation |
| Definition | The period of time covered by the documentation. There is no assertion that the documentation is a complete representation for this period, only that it documents events during this time. |
| **Composition.event.detail** |  |
| Short name | Full details for the event(s) the composition consents |
| Definition | Full details for the event(s) the composition/documentation consents. |
| **Composition.encounter** |  |
| Short name | Context of the conposition |
| Definition | Describes the clinical encounter or type of care this documentation is associated with. |
| **Composition.section** |  |
| Short name | Composition is broken into sections |
| Definition | The root of the contents that make up the composition. |
| **Composition.section.title** |  |
| Short name | Label for section |
| Definition | The heading for this particular section. This will be part of the rendered content for the document. |
| **Composition.section.entry** |  |
| Short name | The Content of the section |
| Definition | The content (narrative and data) associated with the section. |

# Health Level Seven, Inc. - Structured Documents WG

## http://hl7.org/fhir/StructureDefinition/clinicaldocument

|  |  |
| --- | --- |
| **Composition** | Composition |
| **Composition.subject** |  |