

1 DOCUMENT

1.1 US Realm Header (V4)

[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2023-05-01 (open)]

Table 1: US Realm Header (V4) Contexts

| Contained By: | Contains: |
|---------------|--|
| | Related Person Relationship and Name Participant (optional) |

This template defines constraints that represent common administrative and demographic concepts for US Realm CDA documents. Further specification, such as ClinicalDocument/code, are provided in document templates that conform to this template.

Table 2: US Realm Header (V4) Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
|--|-------|-------|-----------|----------------------------|--|
| ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2023-05-01) | | | | | |
| realmCode | 1..1 | SHALL | | 4537-16791 | US |
| typeId | 1..1 | SHALL | | 4537-5361 | |
| @root | 1..1 | SHALL | | 4537-5250 | 2.16.840.1.113883.1.3 |
| @extension | 1..1 | SHALL | | 4537-5251 | POCD_HD000040 |
| templateId | 1..1 | SHALL | | 4537-5252 | |
| @root | 1..1 | SHALL | | 4537-10036 | 2.16.840.1.113883.10.20.22.1.1 |
| @extension | 1..1 | SHALL | | 4537-32503 | 2023-05-01 |
| id | 1..1 | SHALL | | 4537-5363 | |
| code | 1..1 | SHALL | | 4537-5253 | |
| title | 1..1 | SHALL | | 4537-5254 | |
| effectiveTime | 1..1 | SHALL | | 4537-5256 | US Realm Date and Time (DTM.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) |
| confidentialityCode | 1..1 | SHALL | | 4537-5259 | urn:oid:2.16.840.1.113883.1.1.16926 (HL7 BasicConfidentialityKind) |
| languageCode | 1..1 | SHALL | | 4537-5372 | urn:oid:2.16.840.1.113883.1.1.11526 (Language) |
| setId | 0..1 | MAY | | 4537-5261 | |
| versionNumber | 0..1 | MAY | | 4537-5264 | |
| recordTarget | 1..* | SHALL | | 4537-5266 | |
| patientRole | 1..1 | SHALL | | 4537-5267 | |
| id | 1..* | SHALL | | 4537-5268 | |
| addr | 1..* | SHALL | | 4537-5271 | US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) |

| XPath | Card. | Verb | Data Type | CONF# | Value |
|--------------------------|--------------|-------------|------------------|----------------------------|--|
| telecom | 1..* | SHALL | | 4537-5280 | |
| @use | 0..1 | SHOULD | | 4537-5375 | urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header)) |
| patient | 1..1 | SHALL | | 4537-5283 | |
| name | 1..* | SHALL | | 4537-5284 | US Realm Patient Name (PTN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1) |
| administrativeGenderCode | 1..1 | SHALL | | 4537-6394 | urn:oid:2.16.840.1.113883.1.1 1.1 (Administrative Gender (HL7 V3)) |
| birthTime | 1..1 | SHALL | | 4537-5298 | |
| sdtc:deceasedInd | 0..1 | MAY | | 4537-32990 | |
| sdtc:deceasedTime | 0..1 | MAY | | 4537-32988 | |
| @value | 0..1 | SHOULD | | 4537-32989 | |
| maritalStatusCode | 0..1 | SHOULD | | 4537-5303 | urn:oid:2.16.840.1.113883.1.1 1.12212 (Marital Status) |
| religiousAffiliationCode | 0..1 | MAY | | 4537-5317 | urn:oid:2.16.840.1.113883.1.1 1.19185 (Religious Affiliation) |
| raceCode | 1..1 | SHALL | | 4537-5322 | urn:oid:2.16.840.1.113883.3.2 074.1.1.3 (Race Category Excluding Nulls) |
| sdtc:raceCode | 0..* | MAY | | 4537-7263 | urn:oid:2.16.840.1.113883.1.1 1.14914 (Race Value Set) |
| ethnicGroupCode | 1..1 | SHALL | | 4537-5323 | urn:oid:2.16.840.1.114222.4.1 1.837 (Ethnicity) |
| sdtc:ethnicGroupCode | 0..* | MAY | | 4537-32901 | urn:oid:2.16.840.1.114222.4.1 1.877 (Detailed Ethnicity) |
| guardian | 0..* | MAY | | 4537-5325 | |
| code | 0..1 | SHOULD | | 4537-5326 | urn:oid:2.16.840.1.113883.11.20.12.1 (Personal And Legal Relationship Role Type) |
| addr | 0..* | SHOULD | | 4537-5359 | US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) |
| telecom | 0..* | SHOULD | | 4537-5382 | |

| XPath | Card. | Verb | Data Type | CONF# | Value |
|-----------------------|--------------|-------------|------------------|----------------------------|---|
| @use | 0..1 | SHOULD | | 4537-7993 | urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header)) |
| guardianPerson | 1..1 | SHALL | | 4537-5385 | |
| name | 1..* | SHALL | | 4537-5386 | US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) |
| birthplace | 0..1 | MAY | | 4537-5395 | |
| place | 1..1 | SHALL | | 4537-5396 | |
| addr | 1..1 | SHALL | | 4537-5397 | |
| country | 0..1 | SHOULD | | 4537-5404 | urn:oid:2.16.840.1.113883.3.8.8.12.80.63 (Country) |
| languageCommunication | 0..* | SHOULD | | 4537-5406 | |
| languageCode | 1..1 | SHALL | | 4537-5407 | urn:oid:2.16.840.1.113883.1.1.1.11526 (Language) |
| modeCode | 0..1 | MAY | | 4537-5409 | urn:oid:2.16.840.1.113883.1.1.1.12249 (LanguageAbilityMode) |
| proficiencyLevelCode | 0..1 | SHOULD | | 4537-9965 | urn:oid:2.16.840.1.113883.1.1.1.12199 (LanguageAbilityProficiency) |
| preferenceInd | 0..1 | SHOULD | | 4537-5414 | |
| providerOrganization | 0..1 | MAY | | 4537-5416 | |
| id | 1..* | SHALL | | 4537-5417 | |
| @root | 0..1 | SHOULD | | 4537-16820 | 2.16.840.1.113883.4.6 |
| name | 1..* | SHALL | | 4537-5419 | |
| telecom | 1..* | SHALL | | 4537-5420 | |
| @use | 0..1 | SHOULD | | 4537-7994 | urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header)) |
| addr | 1..* | SHALL | | 4537-5422 | US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) |

| XPath | Card. | Verb | Data Type | CONF# | Value |
|-------------------------|--------------|-------------|------------------|----------------------------|---|
| author | 1..* | SHALL | | 4537-5444 | |
| time | 1..1 | SHALL | | 4537-5445 | US Realm Date and Time (DTM.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) |
| assignedAuthor | 1..1 | SHALL | | 4537-5448 | |
| id | 1..* | SHALL | | 4537-5449 | |
| id | 0..1 | SHOULD | | 4537-32882 | |
| @nullFlavor | 0..1 | MAY | | 4537-32883 | urn:oid:2.16.840.1.113883.5.1 008 (HL7NullFlavor) = UNK |
| @root | 1..1 | SHALL | | 4537-32884 | 2.16.840.1.113883.4.6 |
| @extension | 0..1 | SHOULD | | 4537-32885 | |
| code | 0..1 | SHOULD | | 4537-16787 | |
| @code | 1..1 | SHALL | | 4537-16788 | urn:oid:2.16.840.1.114222.4.1 1.1066 (Healthcare Provider Taxonomy) |
| addr | 1..* | SHALL | | 4537-5452 | US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) |
| telecom | 1..* | SHALL | | 4537-5428 | |
| @use | 0..1 | SHOULD | | 4537-7995 | urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header)) |
| assignedPerson | 0..1 | SHOULD | | 4537-5430 | |
| name | 1..* | SHALL | | 4537-16789 | US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) |
| assignedAuthoringDevice | 0..1 | SHOULD | | 4537-16783 | |
| manufacturerModelName | 1..1 | SHALL | | 4537-16784 | |
| softwareName | 1..1 | SHALL | | 4537-16785 | |
| dataEnterer | 0..1 | MAY | | 4537-5441 | |

| XPath | Card. | Verb | Data Type | CONF# | Value |
|----------------|--------------|-------------|------------------|----------------------------|--|
| assignedEntity | 1..1 | SHALL | | 4537-5442 | |
| id | 1..* | SHALL | | 4537-5443 | |
| @root | 0..1 | SHOULD | | 4537-16821 | 2.16.840.1.113883.4.6 |
| code | 0..1 | MAY | | 4537-32173 | urn:oid:2.16.840.1.114222.4.1 1.1066 (Healthcare Provider Taxonomy) |
| addr | 1..* | SHALL | | 4537-5460 | US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10. 20.22.5.2) |
| telecom | 1..* | SHALL | | 4537-5466 | |
| @use | 0..1 | SHOULD | | 4537-7996 | urn:oid:2.16.840.1.113883.11. 20.9.20 (Telecom Use (US Realm Header)) |
| assignedPerson | 1..1 | SHALL | | 4537-5469 | |
| name | 1..* | SHALL | | 4537-5470 | US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10. 20.22.5.1.1) |
| informant | 0..* | MAY | | 4537-8001 | |
| assignedEntity | 1..1 | SHALL | | 4537-8002 | |
| id | 1..* | SHALL | | 4537-9945 | |
| code | 0..1 | MAY | | 4537-32174 | urn:oid:2.16.840.1.114222.4.1 1.1066 (Healthcare Provider Taxonomy) |
| addr | 1..* | SHALL | | 4537-8220 | US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10. 20.22.5.2) |
| assignedPerson | 1..1 | SHALL | | 4537-8221 | |
| name | 1..* | SHALL | | 4537-8222 | US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10. 20.22.5.1.1) |
| informant | 0..* | MAY | | 4537-31355 | |
| relatedEntity | 1..1 | SHALL | | 4537-31356 | |

| XPath | Card. | Verb | Data Type | CONF# | Value |
|----------------------------------|--------------|-------------|------------------|----------------------------|---|
| custodian | 1..1 | SHALL | | 4537-5519 | |
| assignedCustodian | 1..1 | SHALL | | 4537-5520 | |
| representedCustodianOrganization | 1..1 | SHALL | | 4537-5521 | |
| id | 1..* | SHALL | | 4537-5522 | |
| @root | 0..1 | SHOULD | | 4537-16822 | 2.16.840.1.113883.4.6 |
| name | 1..1 | SHALL | | 4537-5524 | |
| telecom | 1..1 | SHALL | | 4537-5525 | |
| @use | 0..1 | SHOULD | | 4537-7998 | urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header)) |
| addr | 1..1 | SHALL | | 4537-5559 | US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) |
| informationRecipient | 0..* | MAY | | 4537-5565 | |
| intendedRecipient | 1..1 | SHALL | | 4537-5566 | |
| id | 0..* | MAY | | 4537-32399 | |
| informationRecipient | 0..1 | MAY | | 4537-5567 | |
| name | 1..* | SHALL | | 4537-5568 | US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) |
| receivedOrganization | 0..1 | MAY | | 4537-5577 | |
| name | 1..1 | SHALL | | 4537-5578 | |
| legalAuthenticator | 0..1 | SHOULD | | 4537-5579 | |
| time | 1..1 | SHALL | | 4537-5580 | US Realm Date and Time (DTM.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) |
| signatureCode | 1..1 | SHALL | | 4537-5583 | |

| XPath | Card. | Verb | Data Type | CONF# | Value |
|--------------------|--------------|-------------|------------------|----------------------------|---|
| @code | 1..1 | SHALL | | 4537-5584 | urn:oid:2.16.840.1.113883.5.8 9 (HL7ParticipationSignature) = S |
| sdtc:signatureText | 0..1 | MAY | | 4537-30810 | |
| assignedEntity | 1..1 | SHALL | | 4537-5585 | |
| id | 1..* | SHALL | | 4537-5586 | |
| @root | 0..1 | MAY | | 4537-16823 | 2.16.840.1.113883.4.6 |
| code | 0..1 | MAY | | 4537-17000 | urn:oid:2.16.840.1.114222.4.1 1.1066 (Healthcare Provider Taxonomy) |
| addr | 1..* | SHALL | | 4537-5589 | US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10. 20.22.5.2) |
| telecom | 1..* | SHALL | | 4537-5595 | |
| @use | 0..1 | SHOULD | | 4537-7999 | urn:oid:2.16.840.1.113883.11. 20.9.20 (Telecom Use (US Realm Header)) |
| assignedPerson | 1..1 | SHALL | | 4537-5597 | |
| name | 1..* | SHALL | | 4537-5598 | US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10. 20.22.5.1.1) |
| authenticator | 0..* | MAY | | 4537-5607 | |
| time | 1..1 | SHALL | | 4537-5608 | US Realm Date and Time (DTM.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10. 20.22.5.4) |
| signatureCode | 1..1 | SHALL | | 4537-5610 | |
| @code | 1..1 | SHALL | | 4537-5611 | urn:oid:2.16.840.1.113883.5.8 9 (HL7ParticipationSignature) = S |
| sdtc:signatureText | 0..1 | MAY | | 4537-30811 | |
| assignedEntity | 1..1 | SHALL | | 4537-5612 | |
| id | 1..* | SHALL | | 4537-5613 | |
| @root | 0..1 | SHOULD | | 4537- | 2.16.840.1.113883.4.6 |

| XPath | Card. | Verb | Data Type | CONF# | Value |
|-----------------|--------------|-------------|------------------|----------------------------|--|
| | | | | 16824 | |
| code | 0..1 | MAY | | 4537-16825 | |
| @code | 0..1 | MAY | | 4537-16826 | urn:oid:2.16.840.1.114222.4.1 1.1066 (Healthcare Provider Taxonomy) |
| addr | 1..* | SHALL | | 4537-5616 | US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10. 20.22.5.2) |
| telecom | 1..* | SHALL | | 4537-5622 | |
| @use | 0..1 | SHOULD | | 4537-8000 | urn:oid:2.16.840.1.113883.11. 20.9.20 (Telecom Use (US Realm Header)) |
| assignedPerson | 1..1 | SHALL | | 4537-5624 | |
| name | 1..* | SHALL | | 4537-5625 | US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10. 20.22.5.1.1) |
| participant | 0..* | MAY | | 4537-10003 | |
| time | 0..1 | MAY | | 4537-10004 | |
| participant | 0..* | SHOULD | | 4537-32994 | Related Person Relationship and Name Participant (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.5.8:2023-05-01 |
| inFulfillmentOf | 0..* | MAY | | 4537-9952 | |
| order | 1..1 | SHALL | | 4537-9953 | |
| id | 1..* | SHALL | | 4537-9954 | |
| documentationOf | 0..* | MAY | | 4537-14835 | |
| serviceEvent | 1..1 | SHALL | | 4537-14836 | |
| effectiveTime | 1..1 | SHALL | | 4537-14837 | |
| low | 1..1 | SHALL | | 4537-14838 | |
| performer | 0..* | SHOULD | | 4537-14839 | |

| XPath | Card. | Verb | Data Type | CONF# | Value |
|-----------------------|--------------|-------------|------------------|----------------------------|--|
| @typeCode | 1..1 | SHALL | | 4537-14840 | urn:oid:2.16.840.1.113883.1.1 1.19601 (x_ServiceEventPerformer) |
| functionCode | 0..1 | MAY | | 4537-16818 | |
| @code | 0..1 | SHOULD | | 4537-32889 | urn:oid:2.16.840.1.113762.1.4 .1099.30 (Care Team Member Function) |
| assignedEntity | 1..1 | SHALL | | 4537-14841 | |
| id | 1..* | SHALL | | 4537-14846 | |
| @root | 0..1 | SHOULD | | 4537-14847 | 2.16.840.1.113883.4.6 |
| code | 0..1 | SHOULD | | 4537-14842 | urn:oid:2.16.840.1.114222.4.1 1.1066 (Healthcare Provider Taxonomy) |
| authorization | 0..* | MAY | | 4537-16792 | |
| consent | 1..1 | SHALL | | 4537-16793 | |
| id | 0..* | MAY | | 4537-16794 | |
| code | 0..1 | MAY | | 4537-16795 | |
| statusCode | 1..1 | SHALL | | 4537-16797 | |
| @code | 1..1 | SHALL | | 4537-16798 | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = completed |
| componentOf | 0..1 | MAY | | 4537-9955 | |
| encompassingEncounter | 1..1 | SHALL | | 4537-9956 | |
| id | 1..* | SHALL | | 4537-9959 | |
| effectiveTime | 1..1 | SHALL | | 4537-9958 | |

1.1.1 Properties

1.1.1.1 realmCode

1. **SHALL** contain exactly one [1..1] **realmCode**=**"US"** (CONF:4537-16791).
2. **SHALL** contain exactly one [1..1] **typeId** (CONF:4537-5361).

- a. This typeId **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.1.3" (CONF:4537-5250).
- b. This typeId **SHALL** contain exactly one [1..1] @extension="POCD_HD000040" (CONF:4537-5251).
- 3. **SHALL** contain exactly one [1..1] **templateId** (CONF:4537-5252) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.1.1" (CONF:4537-10036).
 - b. **SHALL** contain exactly one [1..1] @extension="2023-05-01" (CONF:4537-32503).
- 4. **SHALL** contain exactly one [1..1] **id** (CONF:4537-5363).
 - a. This id **SHALL** be a globally unique identifier for the document (CONF:4537-9991).
- 5. **SHALL** contain exactly one [1..1] **code** (CONF:4537-5253).
 - a. This code **SHALL** specify the particular kind of document (e.g., History and Physical, Discharge Summary, Progress Note) (CONF:4537-9992).
 - b. This code **SHALL** be drawn from the LOINC document type ontology (LOINC codes where SCALE = DOC) (CONF:4537-32948).
- 6. **SHALL** contain exactly one [1..1] **title** (CONF:4537-5254).

Note: The title can either be a locally defined name or the displayName corresponding to clinicalDocument/code
- 7. **SHALL** contain exactly one [1..1] US Realm Date and Time (DTM.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:4537-5256).
- 8. **SHALL** contain exactly one [1..1] **confidentialityCode**, which **SHOULD** be selected from ValueSet [HL7 BasicConfidentialityKind](#) urn:oid:2.16.840.1.113883.1.11.16926 DYNAMIC (CONF:4537-5259).
- 9. **SHALL** contain exactly one [1..1] **languageCode**, which **SHALL** be selected from ValueSet [Language](#) urn:oid:2.16.840.1.113883.1.11.11526 DYNAMIC (CONF:4537-5372).
- 10. **MAY** contain zero or one [0..1] **setId** (CONF:4537-5261).
 - a. If setId is present versionNumber **SHALL** be present (CONF:4537-6380).
- 11. **MAY** contain zero or one [0..1] **versionNumber** (CONF:4537-5264).
 - a. If versionNumber is present setId **SHALL** be present (CONF:4537-6387).

1.1.1.2 recordTarget

The recordTarget records the administrative and demographic data of the patient whose health information is described by the clinical document; each recordTarget must contain at least one patientRole element

- 12. **SHALL** contain at least one [1..*] **recordTarget** (CONF:4537-5266).
 - a. Such recordTargets **SHALL** contain exactly one [1..1] **patientRole** (CONF:4537-5267).
 - i. This patientRole **SHALL** contain at least one [1..*] **id** (CONF:4537-5268).
 - ii. This patientRole **SHALL** contain at least one [1..*] US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:4537-5271).
 - iii. This patientRole **SHALL** contain at least one [1..*] **telecom** (CONF:4537-5280).

1. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [Telecom Use \(US Realm Header\)](#)
urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:4537-5375).
- iv. This patientRole **SHALL** contain exactly one [1..1] **patient** (CONF:4537-5283).
 1. This patient **SHALL** contain at least one [1..*] US Realm Patient Name (PTN.US.FIELDDED) (**identifier**: urn:oid:2.16.840.1.113883.10.20.22.5.1) (CONF:4537-5284).
 2. This patient **SHALL** contain exactly one [1..1] **administrativeGenderCode**, which **SHALL** be selected from ValueSet [Administrative Gender \(HL7 V3\)](#)
urn:oid:2.16.840.1.113883.1.11.1 **DYNAMIC** (CONF:4537-6394).
 3. This patient **SHALL** contain exactly one [1..1] **birthTime** (CONF:4537-5298).
 - a. **SHALL** be precise to year (CONF:4537-5299).
 - b. **SHOULD** be precise to day (CONF:4537-5300).
 - c. **MAY** be precise to the minute (CONF:4537-32418).

For cases where information about newborn's time of birth needs to be captured.

4. This patient **MAY** contain zero or one [0..1] **sdtc:deceasedInd** (CONF:4537-32990).
 - a. If sdtc:deceasedInd="true", then sdtc:deceasedTime **SHALL** be present (CONF:4537-32993).
5. This patient **MAY** contain zero or one [0..1] **sdtc:deceasedTime** (CONF:4537-32988).
 - a. The sdtc:deceasedTime, if present, **SHOULD** contain zero or one [0..1] **@value** (CONF:4537-32989).
 - i. **SHALL** be precise to the year (CONF:4537-32991).
 - ii. **SHOULD** be precise to the day (CONF:4537-32992).
6. This patient **SHOULD** contain zero or one [0..1] **maritalStatusCode**, which **SHALL** be selected from ValueSet [Marital Status](#)
urn:oid:2.16.840.1.113883.1.11.12212 **DYNAMIC** (CONF:4537-5303).
7. This patient **MAY** contain zero or one [0..1] **religiousAffiliationCode**, which **SHALL** be selected from ValueSet [Religious Affiliation](#)
urn:oid:2.16.840.1.113883.1.11.19185 **DYNAMIC** (CONF:4537-5317).
8. This patient **SHALL** contain exactly one [1..1] **raceCode**, which **SHALL** be selected from ValueSet [Race Category Excluding Nulls](#)
urn:oid:2.16.840.1.113883.3.2074.1.1.3 **DYNAMIC** (CONF:4537-5322).
9. This patient **MAY** contain zero or more [0..*] **sdtc:raceCode**, which **SHALL** be selected from ValueSet [Race Value Set](#)
urn:oid:2.16.840.1.113883.1.11.14914 **DYNAMIC** (CONF:4537-

7263).

Note: The sdtc:raceCode is only used to record additional values when the patient has indicated multiple races or additional race detail beyond the five categories required for Meaningful Use Stage 2. The prefix sdtc: SHALL be bound to the namespace “urn:hl7-org:sdtc”. The use of the namespace provides a necessary extension to CDA R2 for the use of the additional raceCode elements.

- a. If sdtc:raceCode is present, then the patient **SHALL** contain [1..1] raceCode (CONF:4537-31347).
10. This patient **SHALL** contain exactly one [1..1] **ethnicGroupCode**, which **SHALL** be selected from ValueSet [Ethnicity](#) urn:oid:2.16.840.1.114222.4.11.837 **DYNAMIC** (CONF:4537-5323).
11. This patient **MAY** contain zero or more [0..*] **sdtc:ethnicGroupCode**, which **SHALL** be selected from ValueSet [Detailed Ethnicity](#) urn:oid:2.16.840.1.114222.4.11.877 **DYNAMIC** (CONF:4537-32901).
12. This patient **MAY** contain zero or more [0..*] **guardian** (CONF:4537-5325).
 - a. The guardian, if present, **SHOULD** contain zero or one [0..1] **code**, which **SHALL** be selected from ValueSet [Personal And Legal Relationship Role Type](#) urn:oid:2.16.840.1.113883.11.20.12.1 **DYNAMIC** (CONF:4537-5326).
 - b. The guardian, if present, **SHOULD** contain zero or more [0..*] US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:4537-5359).
 - c. The guardian, if present, **SHOULD** contain zero or more [0..*] **telecom** (CONF:4537-5382).
 - i. The telecom, if present, **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [Telecom Use \(US Realm Header\)](#) urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:4537-7993).
 - d. The guardian, if present, **SHALL** contain exactly one [1..1] **guardianPerson** (CONF:4537-5385).
 - i. This guardianPerson **SHALL** contain at least one [1..*] US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:4537-5386).
13. This patient **MAY** contain zero or one [0..1] **birthplace** (CONF:4537-5395).
 - a. The birthplace, if present, **SHALL** contain exactly one [1..1] **place** (CONF:4537-5396).

- i. This place **SHALL** contain exactly one [1..1] **addr** (CONF:4537-5397).
 - 1. This addr **SHOULD** contain zero or one [0..1] **country**, which **SHALL** be selected from ValueSet [Country](#) urn:oid:2.16.840.1.113883.3.88.12.80.63 **DYNAMIC** (CONF:4537-5404).
 - 2. If country is US, this addr **SHALL** contain exactly one [1..1] state, which **SHALL** be selected from ValueSet StateValueSet 2.16.840.1.113883.3.88.12.80.1 **DYNAMIC** (CONF:4537-5402).
Note: A nullFlavor of 'UNK' may be used if the state is unknown.
 - 3. If country is US, this addr **MAY** contain zero or one [0..1] postalCode, which **SHALL** be selected from ValueSet PostalCode urn:oid:2.16.840.1.113883.3.88.12.80.2 **DYNAMIC** (CONF:4537-5403).
14. This patient **SHOULD** contain zero or more [0..*] **languageCommunication** (CONF:4537-5406).
- a. The languageCommunication, if present, **SHALL** contain exactly one [1..1] **languageCode**, which **SHALL** be selected from ValueSet [Language](#) urn:oid:2.16.840.1.113883.1.11.11526 **DYNAMIC** (CONF:4537-5407).
 - b. The languageCommunication, if present, **MAY** contain zero or one [0..1] **modeCode**, which **SHALL** be selected from ValueSet [LanguageAbilityMode](#) urn:oid:2.16.840.1.113883.1.11.12249 **DYNAMIC** (CONF:4537-5409).
 - c. The languageCommunication, if present, **SHOULD** contain zero or one [0..1] **proficiencyLevelCode**, which **SHALL** be selected from ValueSet [LanguageAbilityProficiency](#) urn:oid:2.16.840.1.113883.1.11.12199 **DYNAMIC** (CONF:4537-9965).
 - d. The languageCommunication, if present, **SHOULD** contain zero or one [0..1] **preferenceInd** (CONF:4537-5414).
- v. This patientRole **MAY** contain zero or one [0..1] **providerOrganization** (CONF:4537-5416).
- 1. The providerOrganization, if present, **SHALL** contain at least one [1..*] **id** (CONF:4537-5417).
 - a. Such ids **SHOULD** contain zero or one [0..1] **@root="2.16.840.1.113883.4.6"** National Provider Identifier (CONF:4537-16820).
 - 2. The providerOrganization, if present, **SHALL** contain at least one [1..*] **name** (CONF:4537-5419).

3. The providerOrganization, if present, **SHALL** contain at least one [1..*] **telecom** (CONF:4537-5420).
 - a. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [Telecom Use \(US Realm Header\)](#) urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:4537-7994).
4. The providerOrganization, if present, **SHALL** contain at least one [1..*] US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:4537-5422).

1.1.1.3 author

The author element represents the creator of the clinical document. The author may be a device or a person.

13. **SHALL** contain at least one [1..*] **author** (CONF:4537-5444).
 - a. Such authors **SHALL** contain exactly one [1..1] US Realm Date and Time (DTM.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:4537-5445).
 - b. Such authors **SHALL** contain exactly one [1..1] **assignedAuthor** (CONF:4537-5448).
 - i. This assignedAuthor **SHALL** contain at least one [1..*] **id** (CONF:4537-5449).

If this assignedAuthor is an assignedPerson

- ii. This assignedAuthor **SHOULD** contain zero or one [0..1] **id** (CONF:4537-32882) such that it

If id with @root="2.16.840.1.113883.4.6" National Provider Identifier is unknown then

1. **MAY** contain zero or one [0..1] **@nullFlavor="UNK"** Unknown (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:4537-32883).
2. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.4.6"** National Provider Identifier (CONF:4537-32884).
3. **SHOULD** contain zero or one [0..1] **@extension** (CONF:4537-32885).

Only if this assignedAuthor is an assignedPerson should the assignedAuthor contain a code.

- iii. This assignedAuthor **SHOULD** contain zero or one [0..1] **code** (CONF:4537-16787).
 1. The code, if present, **SHALL** contain exactly one [1..1] **@code**, which **SHOULD** be selected from ValueSet [Healthcare Provider Taxonomy](#) urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:4537-16788).
 - iv. This assignedAuthor **SHALL** contain at least one [1..*] US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:4537-5452).
 - v. This assignedAuthor **SHALL** contain at least one [1..*] **telecom** (CONF:4537-5428).

1. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [Telecom Use \(US Realm Header\)](#)
urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:4537-7995).
- vi. This assignedAuthor **SHOULD** contain zero or one [0..1] **assignedPerson** (CONF:4537-5430).
 1. The assignedPerson, if present, **SHALL** contain at least one [1..*] US Realm Person Name (PN.US.FIELDDED) (identifier:
urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:4537-16789).
- vii. This assignedAuthor **SHOULD** contain zero or one [0..1] **assignedAuthoringDevice** (CONF:4537-16783).
 1. The assignedAuthoringDevice, if present, **SHALL** contain exactly one [1..1] **manufacturer modelName** (CONF:4537-16784).
 2. The assignedAuthoringDevice, if present, **SHALL** contain exactly one [1..1] **softwareName** (CONF:4537-16785).
- viii. There **SHALL** be exactly one assignedAuthor/assignedPerson or exactly one assignedAuthor/assignedAuthoringDevice (CONF:4537-16790).

1.1.1.4 dataEnterer

The dataEnterer element represents the person who transferred the content, written or dictated, into the clinical document. To clarify, an author provides the content found within the header or body of a document, subject to their own interpretation; a dataEnterer adds an author's information to the electronic system.

14. **MAY** contain zero or one [0..1] **dataEnterer** (CONF:4537-5441).

- a. The dataEnterer, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:4537-5442).
 - i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:4537-5443).
 1. Such ids **SHOULD** contain zero or one [0..1] **@root="2.16.840.1.113883.4.6"** National Provider Identifier (CONF:4537-16821).
 - ii. This assignedEntity **MAY** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet [Healthcare Provider Taxonomy](#)
urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:4537-32173).
 - iii. This assignedEntity **SHALL** contain at least one [1..*] US Realm Address (AD.US.FIELDDED) (identifier:
urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:4537-5460).
 - iv. This assignedEntity **SHALL** contain at least one [1..*] **telecom** (CONF:4537-5466).
 1. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [Telecom Use \(US Realm Header\)](#)
urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:4537-7996).
 - v. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:4537-5469).

1. This assignedPerson **SHALL** contain at least one [1..*] US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:4537-5470).

1.1.1.5 informant

The informant element describes an information source for any content within the clinical document. This informant is constrained for use when the source of information is an assigned health care provider for the patient.

15. **MAY** contain zero or more [0..*] **informant** (CONF:4537-8001) such that it
 - a. **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:4537-8002).
 - i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:4537-9945).
 1. If assignedEntity/id is a provider then this id, **SHOULD** include zero or one [0..1] id where id/@root ="2.16.840.1.113883.4.6" National Provider Identifier (CONF:4537-9946).
 - ii. This assignedEntity **MAY** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet [Healthcare Provider Taxonomy](#) urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:4537-32174).
 - iii. This assignedEntity **SHALL** contain at least one [1..*] US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:4537-8220).
 - iv. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:4537-8221).
 1. This assignedPerson **SHALL** contain at least one [1..*] US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:4537-8222).

1.1.1.6 informant

The informant element describes an information source (who is not a provider) for any content within the clinical document. This informant would be used when the source of information has a personal relationship with the patient or is the patient.

16. **MAY** contain zero or more [0..*] **informant** (CONF:4537-31355) such that it
 - a. **SHALL** contain exactly one [1..1] **relatedEntity** (CONF:4537-31356).

1.1.1.7 custodian

The custodian element represents the organization that is in charge of maintaining and is entrusted with the care of the document.

There is only one custodian per CDA document. Allowing that a CDA document may not represent the original form of the authenticated document, the custodian represents the steward of the original source document. The custodian may be the document originator, a health information exchange, or other responsible party.

17. **SHALL** contain exactly one [1..1] **custodian** (CONF:4537-5519).

- a. This custodian **SHALL** contain exactly one [1..1] **assignedCustodian** (CONF:4537-5520).
 - i. This assignedCustodian **SHALL** contain exactly one [1..1] **representedCustodianOrganization** (CONF:4537-5521).
 - 1. This representedCustodianOrganization **SHALL** contain at least one [1..*] **id** (CONF:4537-5522).
 - a. Such ids **SHOULD** contain zero or one [0..1] **@root="2.16.840.1.113883.4.6"** National Provider Identifier (CONF:4537-16822).
 - 2. This representedCustodianOrganization **SHALL** contain exactly one [1..1] **name** (CONF:4537-5524).
 - 3. This representedCustodianOrganization **SHALL** contain exactly one [1..1] **telecom** (CONF:4537-5525).
 - a. This telecom **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [Telecom Use \(US Realm Header\)](#) urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:4537-7998).
 - 4. This representedCustodianOrganization **SHALL** contain exactly one [1..1] US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:4537-5559).

1.1.1.8 informationRecipient

The informationRecipient element records the intended recipient of the information at the time the document was created. In cases where the intended recipient of the document is the patient's health chart, set the receivedOrganization to the scoping organization for that chart.

- 18. **MAY** contain zero or more [0..*] **informationRecipient** (CONF:4537-5565).
 - a. The informationRecipient, if present, **SHALL** contain exactly one [1..1] **intendedRecipient** (CONF:4537-5566).
 - i. This intendedRecipient **MAY** contain zero or more [0..*] **id** (CONF:4537-32399).
 - ii. This intendedRecipient **MAY** contain zero or one [0..1] **informationRecipient** (CONF:4537-5567).
 - 1. The informationRecipient, if present, **SHALL** contain at least one [1..*] US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:4537-5568).
 - iii. This intendedRecipient **MAY** contain zero or one [0..1] **receivedOrganization** (CONF:4537-5577).
 - 1. The receivedOrganization, if present, **SHALL** contain exactly one [1..1] **name** (CONF:4537-5578).

1.1.1.9 legalAuthenticator

The legalAuthenticator identifies the single person legally responsible for the document and must be present if the document has been legally authenticated. A clinical document that does

not contain this element has not been legally authenticated.

The act of legal authentication requires a certain privilege be granted to the legal authenticator depending upon local policy. Based on local practice, clinical documents may be released before legal authentication.

All clinical documents have the potential for legal authentication, given the appropriate credentials.

Local policies MAY choose to delegate the function of legal authentication to a device or system that generates the clinical document. In these cases, the legal authenticator is a person accepting responsibility for the document, not the generating device or system.

Note that the legal authenticator, if present, must be a person.

19. **SHOULD** contain zero or one [0..1] **legalAuthenticator** (CONF:4537-5579).

- a. The legalAuthenticator, if present, **SHALL** contain exactly one [1..1] US Realm Date and Time (DTM.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:4537-5580).
- b. The legalAuthenticator, if present, **SHALL** contain exactly one [1..1] **signatureCode** (CONF:4537-5583).
 - i. This signatureCode **SHALL** contain exactly one [1..1] **@code="S"** (CodeSystem: HL7ParticipationSignature urn:oid:2.16.840.1.113883.5.89 **STATIC**) (CONF:4537-5584).

1.1.1.10 sdtc:signatureText

The sdtc:signatureText extension provides a location in CDA for a textual or multimedia depiction of the signature by which the participant endorses and accepts responsibility for his or her participation in the Act as specified in the Participation.typeCode. Details of what goes in the field are described in the HL7 CDA Digital Signature Standard balloted in Fall 2013.

- c. The legalAuthenticator, if present, **MAY** contain zero or one [0..1] **sdtc:signatureText** (CONF:4537-30810).

Note: The signature can be represented either inline or by reference according to the ED data type. Typical cases for CDA are:

- 1) Electronic signature: this attribute can represent virtually any electronic signature scheme.
- 2) Digital signature: this attribute can represent digital signatures by reference to a signature data block that is constructed in accordance to a digital signature standard, such as XML-DSIG, PKCS#7, PGP, etc.

- d. The legalAuthenticator, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:4537-5585).

- i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:4537-5586).
 1. Such ids **MAY** contain zero or one [0..1] **@root="2.16.840.1.113883.4.6"** National Provider Identifier (CONF:4537-16823).
 - ii. This assignedEntity **MAY** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet **Healthcare Provider Taxonomy** urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:4537-17000).

- iii. This assignedEntity **SHALL** contain at least one [1..*] US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:4537-5589).
- iv. This assignedEntity **SHALL** contain at least one [1..*] **telecom** (CONF:4537-5595).
 - 1. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [Telecom Use \(US Realm Header\)](#) urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:4537-7999).
- v. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:4537-5597).
 - 1. This assignedPerson **SHALL** contain at least one [1..*] US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:4537-5598).

1.1.1.11 authenticator

The authenticator identifies a participant or participants who attest to the accuracy of the information in the document.

20. **MAY** contain zero or more [0..*] **authenticator** (CONF:4537-5607) such that it

- a. **SHALL** contain exactly one [1..1] US Realm Date and Time (DTM.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:4537-5608).
- b. **SHALL** contain exactly one [1..1] **signatureCode** (CONF:4537-5610).
 - i. This signatureCode **SHALL** contain exactly one [1..1] **@code="S"** (CodeSystem: HL7ParticipationSignature urn:oid:2.16.840.1.113883.5.89 **STATIC**) (CONF:4537-5611).

The sdtc:signatureText extension provides a location in CDA for a textual or multimedia depiction of the signature by which the participant endorses and accepts responsibility for his or her participation in the Act as specified in the Participation.typeCode. Details of what goes in the field are described in the HL7 CDA Digital Signature Standard balloted in Fall of 2013.

- c. **MAY** contain zero or one [0..1] **sdtc:signatureText** (CONF:4537-30811).
Note: The signature can be represented either inline or by reference according to the ED data type. Typical cases for CDA are:
 1) Electronic signature: this attribute can represent virtually any electronic signature scheme.
 2) Digital signature: this attribute can represent digital signatures by reference to a signature data block that is constructed in accordance to a digital signature standard, such as XML-DSIG, PKCS#7, PGP, etc.
- d. **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:4537-5612).
 - i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:4537-5613).
 - 1. Such ids **SHOULD** contain zero or one [0..1] **@root="2.16.840.1.113883.4.6"** National Provider Identifier (CONF:4537-16824).

- ii. This assignedEntity **MAY** contain zero or one [0..1] **code** (CONF:4537-16825).
 - 1. The code, if present, **MAY** contain zero or one [0..1] @code, which **SHOULD** be selected from ValueSet [Healthcare Provider Taxonomy](#) urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:4537-16826).
- iii. This assignedEntity **SHALL** contain at least one [1..*] US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:4537-5616).
- iv. This assignedEntity **SHALL** contain at least one [1..*] **telecom** (CONF:4537-5622).
 - 1. Such telecoms **SHOULD** contain zero or one [0..1] @use, which **SHALL** be selected from ValueSet [Telecom Use \(US Realm Header\)](#) urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:4537-8000).
- v. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:4537-5624).
 - 1. This assignedPerson **SHALL** contain at least one [1..*] US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:4537-5625).

1.1.1.12 participant

The participant element identifies supporting entities, including parents, relatives, caregivers, insurance policyholders, guarantors, and others related in some way to the patient.

A supporting person or organization is an individual or an organization with a relationship to the patient. A supporting person who is playing multiple roles would be recorded in multiple participants (e.g., emergency contact and next-of-kin).

21. **MAY** contain zero or more [0..*] **participant** (CONF:4537-10003) such that it
 - a. **MAY** contain zero or one [0..1] **time** (CONF:4537-10004).
 - b. **SHALL** contain associatedEntity/associatedPerson *AND/OR* associatedEntity/scopingOrganization (CONF:4537-10006).
 - c. When participant/@typeCode is *IND*, associatedEntity/@classCode **SHOULD** be selected from ValueSet 2.16.840.1.113883.11.20.9.33 INDRoleclassCodes **DYNAMIC** (CONF:4537-10007).

1.1.1.13 participant

This templated participant represents a **person** that has a relationship to the patient. (e.g., parent, next-of-kin, neighbor). The related person's name is required and it is recommended that the person's contact information is present. The more specific CDA participant of Guardian (recordTarget/patientRole/patient/guardian) can be used to represent a legally responsible guardian of the patient within the header. This template may be used to represent a person with any relationship to the patient within the header, or at the entry level when pertinent to a particular clinical statement.

22. **SHOULD** contain zero or more [0..*] **participant** which includes [Related Person Relationship and Name Participant](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.5.8:2023-05-01) (CONF:4537-32994).

1.1.1.14 inFulfillmentOf

The inFulfillmentOf element represents orders that are fulfilled by this document such as a radiologists' report of an x-ray.

23. **MAY** contain zero or more [0..*] **inFulfillmentof** (CONF:4537-9952).

- a. The inFulfillmentOf, if present, **SHALL** contain exactly one [1..1] **order** (CONF:4537-9953).
 - i. This order **SHALL** contain at least one [1..*] **id** (CONF:4537-9954).

1.1.1.15 documentationOf

24. **MAY** contain zero or more [0..*] **documentationof** (CONF:4537-14835).

A serviceEvent represents the main act being documented, such as a colonoscopy or a cardiac stress study. In a provision of healthcare serviceEvent, the care providers, PCP, or other longitudinal providers, are recorded within the serviceEvent. If the document is about a single encounter, the providers associated can be recorded in the componentOf/encompassingEncounter template.

- a. The documentationOf, if present, **SHALL** contain exactly one [1..1] **serviceEvent** (CONF:4537-14836).
 - i. This serviceEvent **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:4537-14837).
 1. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:4537-14838).

1.1.1.16 performer

The performer participant represents clinicians who actually and principally carry out the serviceEvent. In a transfer of care this represents the healthcare providers involved in the current or pertinent historical care of the patient. Preferably, the patient's key healthcare care team members would be listed, particularly their primary physician and any active consulting physicians, therapists, and counselors.

- ii. This serviceEvent **SHOULD** contain zero or more [0..*] **performer** (CONF:4537-14839).
 1. The performer, if present, **SHALL** contain exactly one [1..1] **@typeCode**, which **SHALL** be selected from ValueSet [x_ServiceEventPerformer](#) urn:oid:2.16.840.1.113883.1.11.19601 **STATIC** (CONF:4537-14840).
 2. The performer, if present, **MAY** contain zero or one [0..1] **functionCode** (CONF:4537-16818).
 - a. The functionCode, if present, **SHOULD** contain zero or one [0..1] **@code**, which **SHOULD** be selected from ValueSet [Care Team](#)

Member Function

urn:oid:2.16.840.1.113762.1.4.1099.30 **DYNAMIC**
(CONF:4537-32889).

3. The performer, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:4537-14841).
 - a. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:4537-14846).
 - i. Such ids **SHOULD** contain zero or one [0..1] **id** @root="2.16.840.1.113883.4.6" National Provider Identifier (CONF:4537-14847).
 - b. This assignedEntity **SHOULD** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet [Healthcare Provider Taxonomy](#)
urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC**
(CONF:4537-14842).

1.1.1.17 authorization

The authorization element represents information about the patient's consent.

The type of consent is conveyed in consent/code. Consents in the header have been finalized (consent/statusCode must equal Completed) and should be on file. This specification does not address how 'Privacy Consent' is represented, but does not preclude the inclusion of 'Privacy Consent'.

The authorization consent is used for referring to consents that are documented elsewhere in the EHR or medical record for a health condition and/or treatment that is described in the CDA document.

25. **MAY** contain zero or more [0..*] **authorization** (CONF:4537-16792) such that it

- a. **SHALL** contain exactly one [1..1] **consent** (CONF:4537-16793).
 - i. This consent **MAY** contain zero or more [0..*] **id** (CONF:4537-16794).
 - ii. This consent **MAY** contain zero or one [0..1] **code** (CONF:4537-16795).
Note: The type of consent (e.g., a consent to perform the related serviceEvent) is conveyed in consent/code.
 - iii. This consent **SHALL** contain exactly one [1..1] **statusCode** (CONF:4537-16797).
 1. This statusCode **SHALL** contain exactly one [1..1] @code="completed" Completed (CodeSystem: HL7ActClass
urn:oid:2.16.840.1.113883.5.6) (CONF:4537-16798).

1.1.1.18 componentOf

The encompassing encounter represents the setting of the clinical encounter during which the document act(s) or ServiceEvent(s) occurred. In order to represent providers associated with a specific encounter, they are recorded within the encompassingEncounter as participants. In a CCD, the encompassingEncounter may be used when documenting a specific encounter and its participants. All relevant encounters in a CCD may be listed in the encounters section.

26. **MAY** contain zero or one [0..1] **componentOf** (CONF:4537-9955).

- a. The componentOf, if present, **SHALL** contain exactly one [1..1] **encompassingEncounter** (CONF:4537-9956).
 - i. This encompassingEncounter **SHALL** contain at least one [1..*] **id** (CONF:4537-9959).
 - ii. This encompassingEncounter **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:4537-9958).

Table 3: Race Value Set

| Value Set: Race Value Set urn:oid:2.16.840.1.113883.1.11.14914 (Clinical Focus: All concepts that can describe a person's "race" as defined by the United States Bureau of Census),(Data Element Scope: Personal Demographic information, can be multiple.),(Inclusion Criteria: All descendant concepts from the concept "1000-9 Race", excluding that root concept, as derived from the Race and Ethnicity - CDC code system.),(Exclusion Criteria: Concepts that are not a descendant of "Race", therefore, no concepts descendant from "2133-7 Ethnicity". Also the root concept "Race"). This value set was imported on 6/29/2019 with a version of 20190522. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.14914/expansion | | | |
|--|------------------------|-------------------------------------|----------------------------------|
| Code | Code System | Code System OID | Print Name |
| 1002-5 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | American Indian or Alaska Native |
| 1004-1 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | American Indian |
| 1006-6 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Abenaki |
| 1008-2 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Algonquian |
| 1010-8 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Apache |
| 1011-6 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Chiricahua |
| 1012-4 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Fort Sill Apache |
| 1013-2 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Jicarilla Apache |
| 1014-0 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Lipan Apache |
| 1015-7 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Mescalero Apache |
| ... | | | |

Table 4: Telecom Use (US Realm Header)

| Value Set: Telecom Use (US Realm Header) urn:oid:2.16.840.1.113883.11.20.9.20 (Clinical Focus: The purpose for which an entity is assigned a telecom address),(Data Element Scope:),(Inclusion Criteria:),(Exclusion Criteria:) | | | |
|---|---------------|--------------------------------------|-------------------|
| This value set was imported on 5/27/2022 with a version of Latest. | | | |
| Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.20/expansion | | | |
| Code | Code System | Code System OID | Print Name |
| AS | HL7AddressUse | urn:oid:2.16.840.1.113883.5.11 19 | answering service |
| EC | HL7AddressUse | urn:oid:2.16.840.1.113883.5.11 19 | emergency contact |
| HP | HL7AddressUse | urn:oid:2.16.840.1.113883.5.11 19 | primary home |
| HV | HL7AddressUse | urn:oid:2.16.840.1.113883.5.11 19 | vacation home |
| MC | HL7AddressUse | urn:oid:2.16.840.1.113883.5.11 19 | mobile contact) |
| PG | HL7AddressUse | urn:oid:2.16.840.1.113883.5.11 19 | pager |
| WP | HL7AddressUse | urn:oid:2.16.840.1.113883.5.11 19 | work place |

Table 5: Personal And Legal Relationship Role Type

| Value Set: Personal And Legal Relationship Role Type urn:oid:2.16.840.1.113883.11.20.12.1 (Clinical Focus: A personal or legal relationship records the role of a person in relation to another person, or a person to himself or herself. This value set is to be used when recording relationships based on personal or family ties or through legal assignment of responsibility.),(Data Element Scope: C-CDA v2.1 Any person role such as Guardian and associatedEntity. Many @code references.),(Inclusion Criteria: Union of: (Descendants of _PersonalRelationshipRoleType OR Descendants of RESPRSN)),(Exclusion Criteria: not in the inclusion criteria) This value set was imported on 1/23/2023 with a version of Latest. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.12.1/expansion | | | |
|---|-------------|-------------------------------------|-----------------|
| Code | Code System | Code System OID | Print Name |
| ADOPTF | HL7RoleCode | urn:oid:2.16.840.1.113883.5.11 1 | adoptive father |
| ADOPTM | HL7RoleCode | urn:oid:2.16.840.1.113883.5.11 1 | adoptive mother |
| ADOPTP | HL7RoleCode | urn:oid:2.16.840.1.113883.5.11 1 | adoptive parent |
| AUNT | HL7RoleCode | urn:oid:2.16.840.1.113883.5.11 1 | aunt |
| BRO | HL7RoleCode | urn:oid:2.16.840.1.113883.5.11 1 | brother |
| BROINLAW | HL7RoleCode | urn:oid:2.16.840.1.113883.5.11 1 | brother-in-law |
| CHILD | HL7RoleCode | urn:oid:2.16.840.1.113883.5.11 1 | child |
| CHLDADOPT | HL7RoleCode | urn:oid:2.16.840.1.113883.5.11 1 | adopted child |
| CHLDFOST | HL7RoleCode | urn:oid:2.16.840.1.113883.5.11 1 | foster child |
| CHLDINLAW | HL7RoleCode | urn:oid:2.16.840.1.113883.5.11 1 | child-in-law |
| ... | | | |

Table 6: Country

| Value Set: Country urn:oid:2.16.840.1.113883.3.88.12.80.63 This identifies the codes for the representation of names of countries, territories and areas of geographical interest. Contains the ISO 3166-1 code elements available in the alpha-2 code of ISOs country code standard. Value Set Source: http://hl7.org/fhir/ValueSet/iso3166-1-2 | | | |
|---|---|------------------------|----------------------|
| Code | Code System | Code System OID | Print Name |
| AD | ISO 3166 Part 1 Country Codes, 2nd Edition, Alpha-2 | urn:oid:1.0.3166.1.2.2 | Andorra |
| AE | ISO 3166 Part 1 Country Codes, 2nd Edition, Alpha-2 | urn:oid:1.0.3166.1.2.2 | United Arab Emirates |
| AF | ISO 3166 Part 1 Country Codes, 2nd Edition, Alpha-2 | urn:oid:1.0.3166.1.2.2 | Afghanistan |
| AG | ISO 3166 Part 1 Country Codes, 2nd Edition, Alpha-2 | urn:oid:1.0.3166.1.2.2 | Antigua and Barbuda |
| AI | ISO 3166 Part 1 Country Codes, 2nd Edition, Alpha-2 | urn:oid:1.0.3166.1.2.2 | Anguilla |
| AL | ISO 3166 Part 1 Country Codes, 2nd Edition, Alpha-2 | urn:oid:1.0.3166.1.2.2 | Albania |
| AM | ISO 3166 Part 1 Country Codes, 2nd Edition, Alpha-2 | urn:oid:1.0.3166.1.2.2 | Armenia |
| AO | ISO 3166 Part 1 Country Codes, 2nd Edition, Alpha-2 | urn:oid:1.0.3166.1.2.2 | Angola |
| AQ | ISO 3166 Part 1 Country Codes, 2nd Edition, Alpha-2 | urn:oid:1.0.3166.1.2.2 | Antarctica |
| AR | ISO 3166 Part 1 Country Codes, 2nd Edition, Alpha-2 | urn:oid:1.0.3166.1.2.2 | Argentina |
| ... | | | |

Table 7: Language

Value Set: Language urn:oid:2.16.840.1.113883.1.11.11526

A value set of codes defined by Internet RFC 5646.

Use 2 character code if one exists.

Use 3 character code if a 2 character code does not exist.

Including type = region is allowed

See <http://www.iana.org/assignments/language-subtag-registry/language-subtag-registry>

Value Set Source: http://www.loc.gov/standards/iso639-2/php/code_list.php

| Code | Code System | Code System OID | Print Name |
|-------------|--------------------|-------------------------------------|----------------------|
| aa | Language | urn:oid:2.16.840.1.113883.6.12 1 | Afar |
| ab | Language | urn:oid:2.16.840.1.113883.6.12 1 | Abkhazian |
| ace | Language | urn:oid:2.16.840.1.113883.6.12 1 | Achinese |
| ach | Language | urn:oid:2.16.840.1.113883.6.12 1 | Acoli |
| ada | Language | urn:oid:2.16.840.1.113883.6.12 1 | Adangme |
| ady | Language | urn:oid:2.16.840.1.113883.6.12 1 | Adyghe; Adygei |
| ae | Language | urn:oid:2.16.840.1.113883.6.12 1 | Avestan |
| af | Language | urn:oid:2.16.840.1.113883.6.12 1 | Afrikaans |
| afa | Language | urn:oid:2.16.840.1.113883.6.12 1 | Afro-Asiatic (Other) |
| afh | Language | urn:oid:2.16.840.1.113883.6.12 1 | Afrihili |
| ... | | | |

Table 8: LanguageAbilityMode

Value Set: LanguageAbilityMode urn:oid:2.16.840.1.113883.1.11.12249
 (Clinical Focus: Channels for expressing and receiving human language),(Data Element Scope:),(Inclusion Criteria:),(Exclusion Criteria:)

This value set was imported on 6/25/2019 with a version of 20190425.

Value Set Source:

<https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.12249/expansion>

| Code | Code System | Code System OID | Print Name |
|-------------|------------------------|--------------------------------|-------------------|
| ESGN | HL7LanguageAbilityMode | urn:oid:2.16.840.1.113883.5.60 | Expressed signed |
| ESP | HL7LanguageAbilityMode | urn:oid:2.16.840.1.113883.5.60 | Expressed spoken |
| EWR | HL7LanguageAbilityMode | urn:oid:2.16.840.1.113883.5.60 | Expressed written |
| RSGN | HL7LanguageAbilityMode | urn:oid:2.16.840.1.113883.5.60 | Received signed |
| RSP | HL7LanguageAbilityMode | urn:oid:2.16.840.1.113883.5.60 | Received spoken |
| RWR | HL7LanguageAbilityMode | urn:oid:2.16.840.1.113883.5.60 | Received written |

Table 9: LanguageAbilityProficiency

Value Set: LanguageAbilityProficiency urn:oid:2.16.840.1.113883.1.11.12199
 (Clinical Focus: A person's level of proficiency in a language),(Data Element Scope:),(Inclusion Criteria:),(Exclusion Criteria:)

This value set was imported on 6/25/2019 with a version of 20190425.

Value Set Source:

<https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.12199/expansion>

| Code | Code System | Code System OID | Print Name |
|-------------|-------------------------------|--------------------------------|-------------------|
| E | HL7LanguageAbilityProficiency | urn:oid:2.16.840.1.113883.5.61 | Excellent |
| F | HL7LanguageAbilityProficiency | urn:oid:2.16.840.1.113883.5.61 | Fair |
| G | HL7LanguageAbilityProficiency | urn:oid:2.16.840.1.113883.5.61 | Good |
| P | HL7LanguageAbilityProficiency | urn:oid:2.16.840.1.113883.5.61 | Poor |

Table 10: Administrative Gender (HL7 V3)

Value Set: Administrative Gender (HL7 V3) urn:oid:2.16.840.1.113883.1.11.1
 (Clinical Focus: The gender of a person used for administrative purposes (as opposed to clinical gender)),(Data Element Scope:),(Inclusion Criteria: All codes in the HL7 V3 AdministrativeGender code system),(Exclusion Criteria:)

This value set was imported on 9/29/2020 with a version of Latest.

Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.1/expansion>

| Code | Code System | Code System OID | Print Name |
|-------------|-----------------------|-------------------------------|-------------------|
| F | Administrative Gender | urn:oid:2.16.840.1.113883.5.1 | Female |
| M | Administrative Gender | urn:oid:2.16.840.1.113883.5.1 | Male |
| UN | Administrative Gender | urn:oid:2.16.840.1.113883.5.1 | Undifferentiated |

Table 11: Marital Status

Value Set: Marital Status urn:oid:2.16.840.1.113883.1.11.12212

(Clinical Focus: The domestic partnership status of a person.),(Data Element Scope: Marital Status),(Inclusion Criteria: All codes in the HL7 MaritalStatus code system),(Exclusion Criteria: Any non-selectable codes)

This value set was imported on 6/25/2019 with a version of 20190517.

Value Set Source:

<https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.12212/expansion>

| Code | Code System | Code System OID | Print Name |
|-------------|--------------------|-------------------------------|-------------------|
| A | HL7MaritalStatus | urn:oid:2.16.840.1.113883.5.2 | Annulled |
| C | HL7MaritalStatus | urn:oid:2.16.840.1.113883.5.2 | Common Law |
| D | HL7MaritalStatus | urn:oid:2.16.840.1.113883.5.2 | Divorced |
| I | HL7MaritalStatus | urn:oid:2.16.840.1.113883.5.2 | Interlocutory |
| L | HL7MaritalStatus | urn:oid:2.16.840.1.113883.5.2 | Legally Separated |
| M | HL7MaritalStatus | urn:oid:2.16.840.1.113883.5.2 | Married |
| P | HL7MaritalStatus | urn:oid:2.16.840.1.113883.5.2 | Polygamous |
| S | HL7MaritalStatus | urn:oid:2.16.840.1.113883.5.2 | Never Married |
| T | HL7MaritalStatus | urn:oid:2.16.840.1.113883.5.2 | Domestic partner |
| U | HL7MaritalStatus | urn:oid:2.16.840.1.113883.5.2 | unmarried |
| ... | | | |

Table 12: Religious Affiliation

| Value Set: Religious Affiliation urn:oid:2.16.840.1.113883.1.11.19185 (Clinical Focus: A person's faith affiliation),(Data Element Scope:),(Inclusion Criteria: All codes in the HL7 ReligiousAffiliation code system),(Exclusion Criteria:) | | | |
|---|-------------------------|--------------------------------------|--------------------------|
| This value set was imported on 6/29/2019 with a version of 20190425. | | | |
| Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.19185/expansion | | | |
| | | | |
| Code | Code System | Code System OID | Print Name |
| 1001 | HL7ReligiousAffiliation | urn:oid:2.16.840.1.113883.5.10 76 | Adventist |
| 1002 | HL7ReligiousAffiliation | urn:oid:2.16.840.1.113883.5.10 76 | African Religions |
| 1003 | HL7ReligiousAffiliation | urn:oid:2.16.840.1.113883.5.10 76 | Afro-Caribbean Religions |
| 1004 | HL7ReligiousAffiliation | urn:oid:2.16.840.1.113883.5.10 76 | Agnosticism |
| 1005 | HL7ReligiousAffiliation | urn:oid:2.16.840.1.113883.5.10 76 | Anglican |
| 1006 | HL7ReligiousAffiliation | urn:oid:2.16.840.1.113883.5.10 76 | Animism |
| 1007 | HL7ReligiousAffiliation | urn:oid:2.16.840.1.113883.5.10 76 | Atheism |
| 1008 | HL7ReligiousAffiliation | urn:oid:2.16.840.1.113883.5.10 76 | Babi & Baha'I faiths |
| 1009 | HL7ReligiousAffiliation | urn:oid:2.16.840.1.113883.5.10 76 | Baptist |
| 1010 | HL7ReligiousAffiliation | urn:oid:2.16.840.1.113883.5.10 76 | Bon |
| ... | | | |

Table 13: Race Category Excluding Nulls

| |
|--|
| <p>Value Set: Race Category Excluding Nulls urn:oid:2.16.840.1.113883.3.2074.1.1.3 (Clinical Focus: The top-level "Race" concepts as defined by US Office of Management and Budget (OMB), excluding "Other race". All "Race" concepts in the Race and Ethnicity - CDC code system roll-up to one of these codes.),(Data Element Scope: Demographic categorization of a person's race (can be multiple).),(Inclusion Criteria: Direct children of the "1000-9 Race" concept in the Race and Ethnicity Code system.),(Exclusion Criteria: Specifically exclude "2131-1 Other Race" and any descendant of the concepts defined in the inclusion criteria.)</p> |
|--|

This value set was imported on 6/18/2020 with a version of Latest.

Value Set Source:

<https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.3.2074.1.1.3/expansion>

| Code | Code System | Code System OID | Print Name |
|-------------|------------------------|---------------------------------|---|
| 1002-5 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | American Indian or Alaska Native |
| 2028-9 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | Asian |
| 2054-5 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | Black or African American |
| 2076-8 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | Native Hawaiian or Other Pacific Islander |
| 2106-3 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | White |

Table 14: Ethnicity

| |
|---|
| <p>Value Set: Ethnicity urn:oid:2.16.840.1.114222.4.11.837 (Clinical Focus:),(Data Element Scope:),(Inclusion Criteria:),(Exclusion Criteria:)</p> |
|---|

This value set was imported on 10/14/2020 with a version of Latest.

Value Set Source:

<https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.837/expansion>

| Code | Code System | Code System OID | Print Name |
|-------------|------------------------|---------------------------------|------------------------|
| 2135-2 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | Hispanic or Latino |
| 2186-5 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | Not Hispanic or Latino |

Table 15: Detailed Ethnicity

Value Set: Detailed Ethnicity urn:oid:2.16.840.1.114222.4.11.877

(Clinical Focus: All concepts that can describe a person's "ethnicity" as defined by the United States Bureau of Census. This includes the US Office of Management and Budget (OMB) two top-level ethnicity categories, plus all the more detailed descendant ethnicity concepts used by the US Bureau of Census.),(Data Element Scope: Personal Demographic information, can be multiple.),(Inclusion Criteria: All descendant concepts from the concept "2133-7 Ethnicity", excluding that root concept, as derived from the Race and Ethnicity - CDC code system.),(Exclusion Criteria: Concepts that are not a descendant of "2133-7 Ethnicity", therefore, no concepts descendant from "1000-9 Race". Also the root concept "Ethnicity".)

This value set was imported on 1/23/2023 with a version of Latest.

Value Set Source:

<https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.877/expansion>

| Code | Code System | Code System OID | Print Name |
|-------------|------------------------|-------------------------------------|-------------------|
| 2137-8 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Spaniard |
| 2138-6 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Andalusian |
| 2139-4 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Asturian |
| 2140-2 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Castilian |
| 2141-0 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Catalonian |
| 2142-8 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Belearic Islander |
| 2143-6 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Gallego |
| 2144-4 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Valencian |
| 2145-1 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Canarian |
| 2146-9 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.23 8 | Spanish Basque |
| ... | | | |

Table 16: Healthcare Provider Taxonomy

| Value Set: Healthcare Provider Taxonomy urn:oid:2.16.840.1.114222.4.11.1066 (Clinical Focus: Represent the "type" of health care provider individual or organization using the National Uniform Claims Committee (NUCC) code system),(Data Element Scope: The assignedEntity attribute),(Inclusion Criteria: All codes in the NUCC Provider Taxonomy code system),(Exclusion Criteria: None) This value set was imported on 6/24/2019 with a version of 20190521. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.1066/expansion | | | |
|---|--------------------------------------|----------------------------------|---|
| Code | Code System | Code System OID | Print Name |
| 10 | Healthcare Provider Taxonomy (HIPAA) | urn:oid:2.16.840.1.113883.6.10 1 | Provider has a medical condition that impairs or limits him/her to practice |
| 101Y00000X | Healthcare Provider Taxonomy (HIPAA) | urn:oid:2.16.840.1.113883.6.10 1 | Behavioral Health & Social Service Providers; Counselor |
| 101YA0400X | Healthcare Provider Taxonomy (HIPAA) | urn:oid:2.16.840.1.113883.6.10 1 | Behavioral Health & Social Service Providers; Counselor, Addiction (Substance Use Disorder) |
| 101YM0800X | Healthcare Provider Taxonomy (HIPAA) | urn:oid:2.16.840.1.113883.6.10 1 | Behavioral Health & Social Service Providers; Counselor, Mental Health |
| 101YP1600X | Healthcare Provider Taxonomy (HIPAA) | urn:oid:2.16.840.1.113883.6.10 1 | Behavioral Health & Social Service Providers; Counselor, Pastoral |
| 101YP2500X | Healthcare Provider Taxonomy (HIPAA) | urn:oid:2.16.840.1.113883.6.10 1 | Behavioral Health & Social Service Providers; Counselor, Professional |
| 101YS0200X | Healthcare Provider Taxonomy (HIPAA) | urn:oid:2.16.840.1.113883.6.10 1 | Behavioral Health & Social Service Providers; Counselor, School |
| 102L00000X | Healthcare Provider Taxonomy (HIPAA) | urn:oid:2.16.840.1.113883.6.10 1 | Behavioral Health & Social Service Providers; Psychoanalyst |
| 102X00000X | Healthcare Provider Taxonomy (HIPAA) | urn:oid:2.16.840.1.113883.6.10 1 | Behavioral Health & Social Service Providers; Poetry Therapist |
| 103G00000X | Healthcare Provider Taxonomy (HIPAA) | urn:oid:2.16.840.1.113883.6.10 1 | Behavioral Health & Social Service Providers; Clinical Neuropsychologist |
| ... | | | |

Table 17: INDRoleclassCodes

| Value Set: INDRoleclassCodes urn:oid:2.16.840.1.113883.11.20.9.33 | | | |
|---|--------------|---------------------------------|-----------------------|
| Value Set Source: | | | |
| https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.33/expansion | | | |
| Code | Code System | Code System OID | Print Name |
| PRS | HL7RoleClass | urn:oid:2.16.840.1.113883.5.110 | personal relationship |
| NOK | HL7RoleClass | urn:oid:2.16.840.1.113883.5.110 | next of kin |
| CAREGIVER | HL7RoleClass | urn:oid:2.16.840.1.113883.5.110 | caregiver |
| AGNT | HL7RoleClass | urn:oid:2.16.840.1.113883.5.110 | agent |
| GUAR | HL7RoleClass | urn:oid:2.16.840.1.113883.5.110 | guarantor |
| ECON | HL7RoleClass | urn:oid:2.16.840.1.113883.5.110 | emergency contact |

Table 18: Care Team Member Function

| Value Set: Care Team Member Function urn:oid:2.16.840.1.113762.1.4.1099.30 (Clinical Focus: This set of concepts describes the function performed on a patient-centered care team. This value set contains concepts that describe a functional role played by a member of a care team on a particular care team.),(Data Element Scope: A functional role on a patient's care team.),(Inclusion Criteria: The set of commonly played roles on a patient-centered care team.),(Exclusion Criteria: Functional roles on care teams that are not patient-centered. For example, hospital's may define teams of practitioners who fill roles that are relevant to the function of the hospital's operation. These roles would not be included when they are not roles that would be played on a patient-centered care team.) This value set was imported on 1/23/2023 with a version of Latest. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113762.1.4.1099.30/expansion | | | |
|--|-------------|--------------------------------|---|
| Code | Code System | Code System OID | Print Name |
| 106289002 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Dentist (occupation) |
| 106291005 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Dietician/public health nutritionist (occupation) |
| 106292003 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Professional nurse (occupation) |
| 106293008 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Nursing personnel (occupation) |
| 106294002 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Midwifery personnel (occupation) |
| 106296000 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Physiotherapist/occupational therapist (occupation) |
| 106310008 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Worker in religion (occupation) |
| 106311007 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Minister of religion/related member of religious order (occupation) |
| 106330007 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Philologist, translator/interpreter (occupation) |
| 11015003 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Minister of religion (occupation) |
| ... | | | |

Table 19: x_ServiceEventPerformer

| Value Set: x_ServiceEventPerformer urn:oid:2.16.840.1.113883.1.11.19601 (Clinical Focus: Characterize the degree of responsibility of the event performer),(Data Element Scope: Performer type code per C-CDA r2.1 CONF:1198- 14840),(Inclusion Criteria: only selected codes),(Exclusion Criteria: only selected codes) This value set was imported on 5/27/2022 with a version of Latest. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.19601/expansion | | | |
|---|----------------------|--------------------------------|---------------------|
| Code | Code System | Code System OID | Print Name |
| PPRF | HL7ParticipationType | urn:oid:2.16.840.1.113883.5.90 | primary performer |
| PRF | HL7ParticipationType | urn:oid:2.16.840.1.113883.5.90 | performer |
| SPRF | HL7ParticipationType | urn:oid:2.16.840.1.113883.5.90 | secondary performer |

Table 20: HL7 BasicConfidentialityKind

| Value Set: HL7 BasicConfidentialityKind urn:oid:2.16.840.1.113883.1.11.16926 (Clinical Focus: Commonly used confidentiality constraints placed upon clinical documents),(Data Element Scope:),(Inclusion Criteria:),(Exclusion Criteria:) This value set was imported on 6/25/2019 with a version of 20190425. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.16926/expansion | | | |
|---|--------------------|--------------------------------|-------------------|
| Code | Code System | Code System OID | Print Name |
| N | HL7Confidentiality | urn:oid:2.16.840.1.113883.5.25 | normal |
| R | HL7Confidentiality | urn:oid:2.16.840.1.113883.5.25 | restricted |
| V | HL7Confidentiality | urn:oid:2.16.840.1.113883.5.25 | very restricted |

Figure 1: US Realm Header Example

```
<ClinicalDocument>
  <realmCode code="US" />
  <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3" />
  <!-- CCD template -->
  <templateId root="2.16.840.1.113883.10.20.22.1.1" extension="2015-08-01" />
  <!-- Globally unique identifier for the document -->
  <id extension="TT988" root="2.16.840.1.113883.19.5.99999.1" />
  <code code="34133-9" displayName="Summarization of Episode Note"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />
  <!-- Title of the document -->
  <title>Patient Chart Summary</title>
  <effectiveTime value="201209151030-0800" />
  <confidentialityCode code="N" displayName="normal" codeSystem="2.16.840.1.113883.5.25"
codeSystemName="Confidentiality" />
  <languageCode code="en-US" />
  <setId extension="sTT988" root="2.16.840.1.113883.19.5.99999.19" />
  <!-- Version of the document -->
  <versionNumber value="1" />
  . . .
</ClinicalDocument>
```

Figure 2: recordTarget Example

```
<recordTarget>
  <patientRole>
    <id extension="444-22-2222" root="2.16.840.1.113883.4.1" />
    <!-- Example Social Security Number using the actual SSN OID. -->
    <addr use="HP">
      <!-- HP is "primary home" from codeSystem 2.16.840.1.113883.5.1119 -->
      <streetAddressLine>2222 Home Street</streetAddressLine>
      <city>Beaverton</city>
      <state>OR</state>
      <postalCode>97867</postalCode>
      <country>US</country>
      <!-- US is "United States" from ISO 3166-1 Country Codes: 1.0.3166.1 -->
    </addr>
    <telecom value="tel:+1(555)555-2003" use="HP" />
    <!-- HP is "primary home" from HL7 AddressUse 2.16.840.1.113883.5.1119 -->
    <patient>
      <!-- The first name element represents what the patient is known as -->
      <name use="L">
        <given>Eve</given>
        <!-- The "SP" is "Spouse" from
            HL7 Code System EntityNamePartQualifier 2.16.840.1.113883.5.43 -->
        <family qualifier="SP">Betterhalf</family>
      </name>
      <!-- The second name element represents another name
          associated with the patient -->
      <name>
        <given>Eve</given>
        <!-- The "BR" is "Birth" from
            HL7 Code System EntityNamePartQualifier 2.16.840.1.113883.5.43 -->
        <family qualifier="BR">Everywoman</family>
      </name>
      <administrativeGenderCode code="F" displayName="Female"
codeSystem="2.16.840.1.113883.5.1" codeSystemName="AdministrativeGender" />
      <!-- Date of birth need only be precise to the day -->
      <birthTime value="19750501" />
      <maritalStatusCode code="M" displayName="Married"
codeSystem="2.16.840.1.113883.5.2" codeSystemName="MaritalStatusCode" />
      <religiousAffiliationCode code="1013" displayName="Christian (non-Catholic,
non-specific)" codeSystem="2.16.840.1.113883.5.1076" codeSystemName="HL7 Religious
Affiliation" />
      <!-- CDC Race and Ethnicity code set contains the five minimum
          race and ethnicity categories defined by OMB Standards -->
      <raceCode code="2106-3" displayName="White"
codeSystem="2.16.840.1.113883.6.238" codeSystemName="Race & Ethnicity - CDC" />
      <!-- The raceCode extension is only used if raceCode is valued -->
      <sdtc:raceCode code="2076-8" displayName="Hawaiian or Other Pacific Islander"
codeSystem="2.16.840.1.113883.6.238" codeSystemName="Race & Ethnicity - CDC" />
      <ethnicGroupCode code="2186-5" displayName="Not Hispanic or Latino"
codeSystem="2.16.840.1.113883.6.238" codeSystemName="Race & Ethnicity - CDC" />
      <guardian>
        <code code="POWATT" displayName="Power of Attorney"
codeSystem="2.16.840.1.113883.1.11.19830" codeSystemName="ResponsibleParty" />
      <addr use="HP">
        <streetAddressLine>2222 Home Street</streetAddressLine>
        <city>Beaverton</city>
```

```

<state>OR</state>
<postalCode>97867</postalCode>
<country>US</country>
</addr>
<telecom value="tel:+1 (555) 555-2008" use="MC" />
<guardianPerson>
    <name>
        <given>Boris</given>
        <given qualifier="CL">Bo</given>
        <family>Betterhalf</family>
    </name>
</guardianPerson>
</guardian>
<birthplace>
    <place>
        <addr>
            <streetAddressLine>4444 Home Street</streetAddressLine>
            <city>Beaverton</city>
            <state>OR</state>
            <postalCode>97867</postalCode>
            <country>US</country>
        </addr>
    </place>
</birthplace>
<languageCommunication>
    <languageCode code="eng" />
    <!-- "eng" is ISO 639-2 alpha-3 code for "English" -->
    <modeCode code="ESP" displayName="Expressed spoken"
codeSystem="2.16.840.1.113883.5.60" codeSystemName="LanguageAbilityMode" />
    <proficiencyLevelCode code="G" displayName="Good"
codeSystem="2.16.840.1.113883.5.61" codeSystemName="LanguageAbilityProficiency" />
    <!-- Patient's preferred language -->
    <preferenceInd value="true" />
</languageCommunication>
</patient>
<providerOrganization>
    <id extension="219BX" root="1.1.1.1.1.1.2" />
    <name>The DoctorsTogether Physician Group</name>
    <telecom use="WP" value="tel: +(555)-555-5000" />
    <addr>
        <streetAddressLine>1007 Health Drive</streetAddressLine>
        <city>Portland</city>
        <state>OR</state>
        <postalCode>99123</postalCode>
        <country>US</country>
    </addr>
</providerOrganization>
</patientRole>
</recordTarget>

```

Figure 3: author Example

```
<author>
  <time value="201209151030-0800" />
  <assignedAuthor>
    <id extension="5555555555" root="2.16.840.1.113883.4.6" />
    <code code="163W00000X" displayName="Registered nurse"
codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
    <addr>
      <streetAddressLine>1004 Healthcare Drive </streetAddressLine>
      <city>Portland</city>
      <state>OR</state>
      <postalCode>99123</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:+1(555) 555-1004" />
    <assignedPerson>
      <name>
        <given>Patricia</given>
        <given qualifier="CL">Patty</given>
        <family>Primary</family>
        <suffix qualifier="AC">M.D.</suffix>
      </name>
    </assignedPerson>
  </assignedAuthor>
</author>
```

Figure 4: dateEnterer Example

```
<dataEnterer>
  <assignedEntity>
    <id extension="333777777" root="2.16.840.1.113883.4.6" />
    <addr>
      <streetAddressLine>1007 Healthcare Drive</streetAddressLine>
      <city>Portland</city>
      <state>OR</state>
      <postalCode>99123</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:+1(555) 555-1050" />
    <assignedPerson>
      <name>
        <given>Ellen</given>
        <family>Enter</family>
      </name>
    </assignedPerson>
  </assignedEntity>
</dataEnterer>
```

Figure 5: Assigned Health Care Provider informant Example

```
<informant>
  <assignedEntity>
    <id extension="888888888" root="1.1.1.1.1.1.3" />
    <addr>
      <streetAddressLine>1007 Healthcare Drive</streetAddressLine>
      <city>Portland</city>
      <state>OR</state>
      <postalCode>99123</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:+1(555)555-1003" />
    <assignedPerson>
      <name>
        <given>Harold</given>
        <family>Hippocrates</family>
        <suffix qualifier="AC">M.D.</suffix>
      </name>
    </assignedPerson>
    <representedOrganization>
      <name>The DoctorsApart Physician Group</name>
    </representedOrganization>
  </assignedEntity>
</informant>
```

Figure 6: Personal Relation informant Example

```
<informant>
  <relatedEntity classCode="PRS">
    <!-- classCode "PRS" represents a person with personal relationship with the
patient -->
    <code code="SPS" displayName="SPOUSE" codeSystem="2.16.840.1.113883.1.11.19563"
codeSystemName="Personal Relationship Role Type Value Set" />
    <relatedPerson>
      <name>
        <given>Boris</given>
        <given qualifier="CL">Bo</given>
        <family>Betterhalf</family>
      </name>
    </relatedPerson>
  </relatedEntity>
</informant>
```

Figure 7: custodian Example

```
<custodian>
  <assignedCustodian>
    <representedCustodianOrganization>
      <id extension="321CX" root="1.1.1.1.1.1.3" />
      <name>Good Health HIE</name>
      <telecom use="WP" value="tel:+1(555)555-1009" />
      <addr use="WP">
        <streetAddressLine>1009 Healthcare Drive </streetAddressLine>
        <city>Portland</city>
        <state>OR</state>
        <postalCode>99123</postalCode>
        <country>US</country>
      </addr>
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>
```

Figure 8: informationRecipient Example

```
<informationRecipient>
  <intendedRecipient>
    <informationRecipient>
      <name>
        <given>Sara</given>
        <family>Specialize</family>
        <suffix qualifier="AC">M.D.</suffix>
      </name>
    </informationRecipient>
    <receivedOrganization>
      <name>The DoctorsApart Physician Group</name>
    </receivedOrganization>
  </intendedRecipient>
</informationRecipient>
```

Figure 9: Digital signature Example

```
<sdtc:signatureText mediaType="text/xml"
representation="B64">omSJUEdmde9j44zmMiromSJUEdmde9j44zmMirdMDSSwDIJdkSIJR3373jeu83
6edjzMMIjdMDSSwDIJdkSIJR3373jeu83MNYD83jmMdomSJUEdmde9j44zmMir
... MNYD83jmMdomSJUEdmde9j44zmMir6edjzMMIjdMDSSwDIJdkSIJR3373jeu83
4zmMir6edjzMMIjdMDSSwDIJdkSIJR3373jeu83==</sdtc:signatureText>
```

Figure 10: legalAuthenticator Example

```
<legalAuthenticator>
  <time value="20120915223615-0800" />
  <signatureCode code="S" />
  <assignedEntity>
    <id extension="5555555555" root="2.16.840.1.113883.4.6" />
    <code code="207QA0505X" displayName="Adult Medicine"
codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
    <addr>
      <streetAddressLine>1004 Healthcare Drive </streetAddressLine>
      <city>Portland</city>
      <state>OR</state>
      <postalCode>99123</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:+1(555) 555-1004" />
    <assignedPerson>
      <name>
        <given>Patricia</given>
        <given qualifier="CL">Patty</given>
        <family>Primary</family>
        <suffix qualifier="AC">M.D.</suffix>
      </name>
    </assignedPerson>
  </assignedEntity>
</legalAuthenticator>
```

Figure 11: authenticator Example

```
<authenticator>
  <time value="201209151030-0800" />
  <signatureCode code="S" />
  <assignedEntity>
    <id extension="5555555555" root="2.16.840.1.113883.4.6" />
    <code code="207QA0505X" displayName="Adult Medicine"
codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
    <addr>
      <streetAddressLine>1004 Healthcare Drive</streetAddressLine>
      <city>Portland</city>
      <state>OR</state>
      <postalCode>99123</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:+1(555) 555-1004" />
    <assignedPerson>
      <name>
        <given>Patricia</given>
        <given qualifier="CL">Patty</given>
        <family>Primary</family>
        <suffix qualifier="AC">M.D.</suffix>
      </name>
    </assignedPerson>
  </assignedEntity>
</authenticator>
```

Figure 12: Supporting Person participant Example

```
<participant typeCode="IND">
    <!-- typeCode "IND" represents an individual -->
    <associatedEntity classCode="NOK">
        <!-- classCode "NOK" represents the patient's next of kin-->
        <addr use="HP">
            <streetAddressLine>2222 Home Street</streetAddressLine>
            <city>Beaverton</city>
            <state>OR</state>
            <postalCode>97867</postalCode>
            <country>US</country>
        </addr>
        <telecom value="tel:+1(555) 555-2008" use="MC" />
        <associatedPerson>
            <name>
                <given>Boris</given>
                <given qualifier="CL">Bo</given>
                <family>Betterhalf</family>
            </name>
        </associatedPerson>
    </associatedEntity>
</participant>
<!-- Entities playing multiple roles are recorded in multiple participants -->
<participant typeCode="IND">
    <associatedEntity classCode="ECON">
        <!-- classCode "ECON" represents an emergency contact -->
        <addr use="HP">
            <streetAddressLine>2222 Home Street</streetAddressLine>
            <city>Beaverton</city>
            <state>OR</state>
            <postalCode>97867</postalCode>
            <country>US</country>
        </addr>
        <telecom value="tel:+1(555) 555-2008" use="MC" />
        <associatedPerson>
            <name>
                <given>Boris</given>
                <given qualifier="CL">Bo</given>
                <family>Betterhalf</family>
            </name>
        </associatedPerson>
    </associatedEntity>
</participant>
```

Figure 13: inFulfillmentOf Example

```
<inFulfillmentOf typeCode="FLFS">
    <order classCode="ACT" moodCode="RQO">
        <id root="629deb70-5306-11df-9879-0800200c9a66" extension="1298989898" />
        <code code="1011220" displayName="Clinical pathology consultation"
codeSystem="2.16.840.1.113883.6.12" codeSystemName="CPT" />
    </order>
</inFulfillmentOf>
```

Figure 14: performer Example

```
<performer typeCode="PRF">
    <functionCode code="PCP"
        displayName="Primary Care Provider"
        codeSystem="2.16.840.1.113883.5.88"
        codeSystemName="ParticipationFunction">
        <originalText>Primary Care Provider</originalText>
    </functionCode>
    <assignedEntity>
        <id extension="5555555555" root="2.16.840.1.113883.4.6" />
        <code code="207QA0505X" displayName="Adult Medicine"
codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
        <addr>
            <streetAddressLine>1004 Healthcare Drive </streetAddressLine>
            <city>Portland</city>
            <state>OR</state>
            <postalCode>99123</postalCode>
            <country>US</country>
        </addr>
        <telecom use="WP" value="tel:+1(555)555-1004" />
        <assignedPerson>
            <name>
                <given>Patricia</given>
                <given qualifier="CL">Patty</given>
                <family>Primary</family>
                <suffix qualifier="AC">M.D.</suffix>
            </name>
        </assignedPerson>
        <representedOrganization>
            <id extension="219BX" root="1.1.1.1.1.1.1.2" />
            <name>The DoctorsTogether Physician Group</name>
            <telecom use="WP" value="tel: +(555)-555-5000" />
            <addr>
                <streetAddressLine>1004 Health Drive</streetAddressLine>
                <city>Portland</city>
                <state>OR</state>
                <postalCode>99123</postalCode>
                <country>US</country>
            </addr>
        </representedOrganization>
    </assignedEntity>
</performer>
```

Figure 15: documentationOf Example

```
<documentationOf>
  <serviceEvent classCode="PCPR">
    <!-- The effectiveTime reflects the provision of care summarized in the document.
    In this scenario, the provision of care summarized is the lifetime for the patient -->
    <effectiveTime>
      <low value="19750501" />
      <!-- The low value represents when the summarized provision of care began.
      In this scenario, the patient's date of birth -->
      <high value="20120915" />
      <!-- The high value represents when the summarized provision of care being
ended.
      In this scenario, when chart summary was created -->
    </effectiveTime>
    <performer typeCode="PRF">
      <functionCode code="PCP"
        displayName="Primary Care Provider"
        codeSystem="2.16.840.1.113883.5.88"
        codeSystemName="ParticipationFunction">
        <originalText>Primary Care Provider</originalText>
      </functionCode>
      <assignedEntity>
        <id extension="5555555555" root="2.16.840.1.113883.4.6" />
        <code code="207QA0505X" displayName="Adult Medicine"
          codeSystem="2.16.840.1.113883.5.53"
          codeSystemName="Health Care Provider Taxonomy" />
        <addr>
          <streetAddressLine>1004 Healthcare Drive </streetAddressLine>
          <city>Portland</city>
          <state>OR</state>
          <postalCode>99123</postalCode>
          <country>US</country>
        </addr>
        <telecom use="WP" value="tel:+1(555)555-1004" />
        <assignedPerson>
          <name>
            <given>Patricia</given>
            <given qualifier="CL">Patty</given>
            <family>Primary</family>
            <suffix qualifier="AC">M.D.</suffix>
          </name>
        </assignedPerson>
        <representedOrganization>
          <id extension="219BX" root="1.1.1.1.1.1.1.2" />
          <name>The DoctorsTogether Physician Group</name>
          <telecom use="WP" value="tel: +(555)-555-5000" />
          <addr>
            <streetAddressLine>1004 Health Drive</streetAddressLine>
            <city>Portland</city>
            <state>OR</state>
            <postalCode>99123</postalCode>
            <country>US</country>
          </addr>
        </representedOrganization>
      </assignedEntity>
    </performer>
```

```
</serviceEvent>  
</documentationOf>
```

Figure 16: authorization Example

```
<authorization typeCode="AUTH">  
    <consent classCode="CONS" moodCode="EVN">  
        <id root="629deb70-5306-11df-9879-0800200c9a66" />  
        <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" code="64293-4"  
displayName="Procedure consent" />  
        <statusCode code="completed" />  
    </consent>  
</authorization>
```

Figure 17: Record Target Example with DeceasedInd="true"

```
<recordTarget>
    <patientRole>
        <!-- The @root OID below (which is fictional) would be specific to an institution's
        record identifier system. -->
        <id root="2.16.840.1.113883.3.6132" extension="345678912-0154"/>
        <!-- HP is "primary home" from valueSet 2.16.840.1.113883.1.11.10637 -->
        <addr use="HP">
            <streetAddressLine>1437 Jennyhill Ln.</streetAddressLine>
            <city>Hollywood</city>
            <postalCode>90068</postalCode>
            <state>CA</state>
            <country>US</country>
        </addr>
        <!-- While this may be included, you may choose to exclude contact information on
        deceased patients -->
        <telecom nullFlavor="NA" />
        <patient>
            <!-- At a 2020 C-CDA Implement-a-thon, it was discussed that some EHR implementations
            may be changing names when patient is expired/deceased -->
            <!-- Changing a name based on death is NOT a recommended practice. Instead update the
            sdtc:deceasedInd and sdtc:deceasedTime fields -->
            <name use="L">
                <given>Adam</given>
                <family>Rumpelstiltskin</family>
            </name>
            <!-- Sex at birth and gender identity may be specified in social history -->
            <administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.5.1"
            displayName="Male" codeSystemName="AdministrativeGender"/>
            <birthTime value="19521022"/>
            <!-- A full CDA example may include the Deceased Observation to indicate cause
            of death -->
            <!-- A Deceased Observation may be present in any section; Problem List is a
            suitable location -->
            <!-- Stylesheets are strongly recommended to include human viewable rendering of the
            deceased indication and time when present -->
            <!-- Systems may send deceased indication, time, or both. Sending only time is not
            recommended. -->
            <sdtc:deceasedInd value="true" />
            <sdtc:deceasedTime value="20180315" />
            <maritalStatusCode code="M" displayName="Married"
            codeSystem="2.16.840.1.113883.5.2" codeSystemName="MaritalStatus"/>
            <religiousAffiliationCode code="1013" displayName="Christian (non-Catholic,
            non-specific)" codeSystem="2.16.840.1.113883.5.1076" codeSystemName="HL7 Religious
            Affiliation"/>
            <!-- CDC Race and Ethnicity code set contains the five minimum race and
            ethnicity categories defined by OMB Standards -->
            <raceCode code="2106-3" displayName="White"
            codeSystem="2.16.840.1.113883.6.238" codeSystemName="OMB Standards for Race and
            Ethnicity"/>
            <ethnicGroupCode code="2186-5" displayName="Not Hispanic or Latino"
            codeSystem="2.16.840.1.113883.6.238" codeSystemName="OMB Standards for Race and
            Ethnicity"/>
            <languageCommunication>
                <languageCode code="en-US"/>
                <!-- "eng" is ISO 639-2 alpha-3 code for "English" -->
```

```
        <modeCode code="ESP" displayName="Expressed spoken"  
codeSystem="2.16.840.1.113883.5.60" codeSystemName="LanguageAbilityMode"/>  
        <proficiencyLevelCode code="E" displayName="Excellent"  
codeSystem="2.16.840.1.113883.5.61" codeSystemName="LanguageAbilityProficiency"/>  
        <preferenceInd value="true"/>  
    </languageCommunication>  
  </patient>  
  </patientRole>  
</recordTarget>
```

2 SECTION

2.1 Care Teams Section (V2)

[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.2.500:2022-06-01
(open)]

Table 21: Care Teams Section (V2) Contexts

| Contained By: | Contains: |
|---------------|---|
| | Care Team Organizer (V2) (optional) |

The Care Team Section is used to share historical and current Care Team information.

The Care Team Section may be included in any type of C-CDA structured document that is an open template.

An individual can have more than one Care Team. A Care Team can exist over time such as a longitudinal care team which includes historical members that may be active or inactive on the care team as needed. Or a Care Team, such as a rehabilitation team, may exist to address a person's needs associated with a particular care event, or a team can be based on addressing a specific condition.

The Care Team Organizer entry template used in the C-CDA Care Teams Section is meant to support the foundation of effective communication, interaction channels and maintenance of current clinical context awareness for the patient, caregivers and care providers to promote care coordination.

Table 22: Care Teams Section (V2) Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
|---|-------|--------|-----------|--------------------------|--|
| section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.2.500:2022-06-01) | | | | | |
| templateId | 1..1 | SHALL | | 4515-3 | |
| @root | 1..1 | SHALL | | 4515-7 | 2.16.840.1.113883.10.20.22.2.500 |
| @extension | 1..1 | SHALL | | 4515-8 | 2022-06-01 |
| code | 1..1 | SHALL | | 4515-5 | |
| @code | 1..1 | SHALL | | 4515-9 | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 85847-2 |
| @codeSystem | 1..1 | SHALL | | 4515-10 | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1 |
| title | 1..1 | SHALL | | 4515-4 | |
| text | 1..1 | SHALL | | 4515-6 | |
| entry | 0..* | SHOULD | | 4515-1 | |
| organizer | 1..1 | SHALL | | 4515-159 | Care Team Organizer (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.500:2022-06-01) |