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HL7 STU Ballot

Volume 2 – Templates and Supporting

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1 DOCUMENT-LEVEL TEMPLATES

1.1 US Realm Header (V4)

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

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Table 1: US Realm Header (V4) Contexts

Contained By:	Contains:
	US Realm Patient Name (PTN.US.FIELDDED) (required) US Realm Address (AD.US.FIELDDED) (optional) US Realm Address (AD.US.FIELDDED) (required) US Realm Person Name (PN.US.FIELDDED) (optional) US Realm Date and Time (DTM.US.FIELDDED) (optional) US Realm Date and Time (DTM.US.FIELDDED) (required)

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.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4)
confidentialityCode	1..1	SHALL		4537-5259	urn:oid:2.16.840.1.113883.1.1.1.16926 (HL7 BasicConfidentialityKind)
languageCode	1..1	SHALL		4537-5372	urn:oid:2.16.840.1.113883.1.1.1.11526 (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.FIELDDED) (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:2.16.840.1.113883.1.11.1 (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:2.16.840.1.113883.1.11.12212 (Marital Status)
religiousAffiliationCode	0..1	MAY		4537-5317	urn:oid:2.16.840.1.113883.1.11.19185 (Religious Affiliation)
raceCode	1..1	SHALL		4537-5322	urn:oid:2.16.840.1.113883.3.2074.1.1.3 (Race Category Excluding Nulls)
sdtc:raceCode	0..*	MAY		4537-7263	urn:oid:2.16.840.1.113883.1.11.14914 (Race Value Set)
ethnicGroupCode	1..1	SHALL		4537-5323	urn:oid:2.16.840.1.114222.4.11.837 (Ethnicity)
sdtc:ethnicGroupCode	0..*	MAY		4537-32901	urn:oid:2.16.840.1.114222.4.11.877 (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.FIELDDED) (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.FIELDDED) (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:2.16.840.1.113883.5.1008 (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:2.16.840.1.114222.4.11.1066 (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:2.16.840.1.114222.4.11.1066 (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:2.16.840.1.114222.4.11.1066 (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.FIELDED) (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.FIELDED) (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.FIELDED) (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:2.16.840.1.113883.5.89 (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:2.16.840.1.114222.4.11.1066 (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:2.16.840.1.113883.5.89 (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:2.16.840.1.114222.4.11.1066 (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:2.16.840.1.113883.10.20.22.5.8:2023-05-01)
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:2.16.840.1.113883.1.11.19601 (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:2.16.840.1.114222.4.11.1066 (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).

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

- c. **MAY** be precise to the minute (CONF:4537-32418).
4. This patient **MAY** contain zero or one [0..1] sdctc:deceasedInd (CONF:4537-32990).
 - a. If sdctc:deceasedInd="true", then sdctc:deceasedTime **SHALL** be present (CONF:4537-32993).
5. This patient **MAY** contain zero or one [0..1] sdctc:deceasedTime (CONF:4537-32988).
 - a. The sdctc:deceasedTime, if present, **SHOULD** contain zero or one [0..1] @value (CONF:4537-32989).
 - i. **SHALL** be precise to 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..*] sdctc: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 \(AD.US.FIELDDED\)](#) (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 \(PN.US.FIELDDED\)](#) (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] manufacturerModelName (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) (identifier: 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] **@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: This value set includes concepts used to represent race as defined in the CDC Race and Ethnicity (CDCREC) code system.),(Data Element Scope: All concepts representing race from CDCREC.),(Inclusion Criteria: All descendant concepts of 1000-9 Race from the CDC Race and Ethnicity (CDCREC) code system, excluding the root concept.),(Exclusion Criteria: CDCREC concept code 1000-9 Race.) This value set was imported on 11/19/2025 with a version of Latest. 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:2.16.840.1.113883.6.238	AMERICAN INDIAN OR ALASKA NATIVE
1004-1	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	AMERICAN INDIAN
1006-6	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Abenaki Nation of Missisquoi
1008-2	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Algonquian
1010-8	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Apache
1013-2	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Jicarilla Apache Nation
1014-0	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Lipan Apache
1015-7	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Mescalero Apache
1016-5	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Apache Tribe of Oklahoma
1017-3	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Tonto Apache
...			

Table 4: Telecom Use (US Realm Header)

<p>Value Set: Telecom Use (US Realm Header) urn:oid:2.16.840.1.113883.11.20.9.20 (Clinical Focus: Codes representing how telecommunication addresses are used—such as emergency contact, direct line, answering service, pager, or mobile contact.), (Data Element Scope: Used to specify the function or intended purpose of a telecommunication address in clinical records and data exchange.), (Inclusion Criteria: HL7 address-use codes under the _TelecommunicationAddressUse category.), (Exclusion Criteria: Exclude codes outside the telecommunication category—such as postal or general address uses.)</p> <p>This value set was imported on 11/19/2025 with a version of Latest.</p> <p>Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.20/expansion</p>			
Code	Code System	Code System OID	Print Name
AS	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	answering service
EC	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	emergency contact
HP	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	primary home
HV	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	vacation home
MC	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	mobile contact)
PG	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	pager
WP	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	work place

Table 5: Personal And Legal Relationship Role Type

<p>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: Any person role such as Guardian and associatedEntity.),(Inclusion Criteria: Union of: (Descendants of _PersonalRelationshipRoleType OR Descendants of RESPRSN)),(Exclusion Criteria: not in the inclusion criteria)</p> <p>This value set was imported on 11/19/2025 with a version of Latest.</p> <p>Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.12.1/expansion</p>			
Code	Code System	Code System OID	Print Name
ADOPTF	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	adoptive father
ADOPTM	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	adoptive mother
ADOPTP	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	adoptive parent
AUNT	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	aunt
BRO	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	brother
BROINLAW	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	brother-in-law
CHILD	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	child
CHLDADOPT	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	adopted child
CHLDFOST	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	foster child
CHLDINLAW	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	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	Country (ISO 3166-1)	urn:oid:1.0.3166.1	Andorra
AE	Country (ISO 3166-1)	urn:oid:1.0.3166.1	United Arab Emirates
AF	Country (ISO 3166-1)	urn:oid:1.0.3166.1	Afghanistan
AG	Country (ISO 3166-1)	urn:oid:1.0.3166.1	Antigua and Barbuda
AI	Country (ISO 3166-1)	urn:oid:1.0.3166.1	Anguilla
AL	Country (ISO 3166-1)	urn:oid:1.0.3166.1	Albania
AM	Country (ISO 3166-1)	urn:oid:1.0.3166.1	Armenia
AO	Country (ISO 3166-1)	urn:oid:1.0.3166.1	Angola
AQ	Country (ISO 3166-1)	urn:oid:1.0.3166.1	Antarctica
AR	Country (ISO 3166-1)	urn:oid:1.0.3166.1	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: Represents the mode or method through which a person expresses or receives language, such as spoken, signed, or written communication.),(Data Element Scope: Used to document how an individual communicates or understands language, specifically capturing whether the interaction is expressive or receptive and the medium used (spoken, signed, written).),(Inclusion Criteria: Includes concepts that indicate modes of language ability, both expressive and receptive, including: expressed spoken, expressed signed, expressed written, received spoken, received signed, and received written.),(Exclusion Criteria: Excludes general language codes, dialects, or language proficiency levels. Also excludes communication modalities unrelated to language expression or reception (e.g., gestures, devices).)			
This value set was imported on 11/19/2025 with a version of Latest. 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: Represents a person's assessed or self-reported level of language proficiency, specifically their ability to speak, read, write, or understand a language.),(Data Element Scope: Used to capture standardized levels of language ability in clinical and administrative documentation, particularly to support communication preferences, interpreter needs, and language-concordant care planning.),(Inclusion Criteria: Includes concepts that represent ordinal levels of proficiency—excellent, good, fair, poor—used to describe the degree of fluency or comprehension in a given language.),(Exclusion Criteria: Excludes language modality (e.g., spoken vs. signed), specific languages or dialects, and non-standardized proficiency descriptions not represented in the HL7 LanguageAbilityProficiency code system.)			
This value set was imported on 11/19/2025 with a version of Latest. 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 sex 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 11/19/2025 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 11/19/2025 with a version of Latest. 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 11/19/2025 with a version of Latest. 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:2.16.840.1.113883.5.1076	Adventist
1002	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	African Religions
1003	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Afro-Caribbean Religions
1004	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Agnosticism
1005	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Anglican
1006	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Animism
1007	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Atheism
1008	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Babi & Baha'I faiths
1009	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Baptist
1010	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	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> <p>This value set was imported on 11/19/2025 with a version of Latest.</p> <p>Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.3.2074.1.1.3/expansion</p>			
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> <p>This value set was imported on 11/19/2025 with a version of Latest.</p> <p>Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.837/expansion</p>			
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

<p>Value Set: Detailed Ethnicity urn:oid:2.16.840.1.114222.4.11.877</p> <p>(Clinical Focus: This value set includes all concepts from the CDC Race and Ethnicity (CDCREC) code system that may be used to represent a person's ethnicity, as defined by the U.S. Bureau of the Census. It encompasses both standard ethnicity classifications and additional concepts used to indicate when ethnicity information is unknown, not provided, or declined by the individual.),(Data Element Scope: Concept codes that represent a person's cultural heritage, origin, or ethnic background, as defined by the United States Census Bureau and captured in the CDC Race and Ethnicity (CDCREC) code system),(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".)</p> <p>This value set was imported on 11/19/2025 with a version of Latest.</p> <p>Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.877/expansion</p>			
Code	Code System	Code System OID	Print Name
2137-8	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Spaniard
2138-6	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Andalusian
2139-4	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Asturian
2140-2	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Castillian
2141-0	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Catalonian
2142-8	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Belearic Islander
2143-6	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Gallego
2144-4	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Valencian
2145-1	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Canarian
2146-9	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	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 11/19/2025 with a version of Latest. 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
101200000X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Behavioral Health & Social Service Providers; Drama Therapist
101Y00000X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Behavioral Health & Social Service Providers; Counselor
101YA0400X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Behavioral Health & Social Service Providers; Counselor, Addiction (Substance Use Disorder)
101YM0800X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Behavioral Health & Social Service Providers; Counselor, Mental Health
101YP1600X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Behavioral Health & Social Service Providers; Counselor, Pastoral
101YP2500X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Behavioral Health & Social Service Providers; Counselor, Professional
101YS0200X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Behavioral Health & Social Service Providers; Counselor, School
102L00000X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Behavioral Health & Social Service Providers; Psychoanalyst
102X00000X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Behavioral Health & Social Service Providers; Poetry Therapist
103G00000X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Behavioral Health & Social Service Providers; Clinical Neuropsychologist
...			

Table 17: INDRoleclassCodes

<p>Value Set: INDRoleclassCodes urn:oid:2.16.840.1.113883.11.20.9.33 (Clinical Focus: Represents interpersonal roles associated with a patient, such as caregiver, emergency contact, guarantor, or next of kin. These roles may impact communication, consent, or care coordination.), (Data Element Scope: Supports structured documentation of an individual's role in relation to a patient for administrative, legal, or care coordination purposes.), (Inclusion Criteria: Includes select codes from http://terminology.hl7.org/CodeSystem/v3-RoleClass), (Exclusion Criteria: Excludes codes other than the selected codes.)</p> <p>This value set was imported on 11/19/2025 with a version of Latest.</p> <p>Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.33/expansion</p>			
Code	Code System	Code System OID	Print Name
AGNT	HL7RoleClass	urn:oid:2.16.840.1.113883.5.110	agent
CAREGIVER	HL7RoleClass	urn:oid:2.16.840.1.113883.5.110	caregiver
ECON	HL7RoleClass	urn:oid:2.16.840.1.113883.5.110	emergency contact
GUAR	HL7RoleClass	urn:oid:2.16.840.1.113883.5.110	guarantor
NOK	HL7RoleClass	urn:oid:2.16.840.1.113883.5.110	next of kin
PRS	HL7RoleClass	urn:oid:2.16.840.1.113883.5.110	personal relationship

Table 18: Care Team Member Function

<p>Value Set: Care Team Member Function urn:oid:2.16.840.1.113762.1.4.1099.30</p> <p>(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.)</p> <p>This value set was imported on 11/19/2025 with a version of Latest.</p> <p>Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113762.1.4.1099.30/expansion</p>			
Code	Code System	Code System OID	Print Name
1012901000168106	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Gynecologic oncologist (occupation)
1032781000168105	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Kinesiology practitioner (occupation)
106289002	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Dentist (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)
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 11/19/2025 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: Represents standard confidentiality constraints applied to clinical documents or data (e.g., normal, restricted, very restricted access levels).),(Data Element Scope: Used to specify confidentiality level metadata on clinical documents or record entries, guiding access control and privacy management.),(Inclusion Criteria: Includes HL7 Confidentiality Code system concepts that define conventional confidentiality categories (N = Normal, R = Restricted, V = Very Restricted).),(Exclusion Criteria: Excludes codes other codes in the HL7 Confidentiality Code system) This value set was imported on 11/19/2025 with a version of Latest. 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="1.1.1.1.1.1.1.2" />
    <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="8888888888" root="1.1.1.1.1.1.1.3" />
    <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="1.1.1.1.1.1.1.1.3" />
      <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="55555555555" 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>

```

```
</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>

```

1.1.2 Reportability Response Document (RR)(V2)

[ClinicalDocument: identifier

urn:hl7ii:2.16.840.1.113883.10.20.15.2.1.2:2025-12-01 (open)]

Draft as part of HL7 CDA® R2 Implementation Guide: Reportability Response, 2.0.0, US Realm

Table 21: Reportability Response Document (RR)(V2) Contexts

Contained By:	Contains:
	US Realm Address (AD.US.FIELDED) (optional) US Realm Address (AD.US.FIELDED) (required) US Realm Person Name (PN.US.FIELDED) (optional) US Realm Person Name (PN.US.FIELDED) (required) US Realm Date and Time (DTM.US.FIELDED) (required) Reportability Response Subject Section (optional) Reportability Response Summary Section (optional) Electronic Initial Case Report Section (required)

The purpose of this implementation guide (IG) is to specify a standard for the creation of a Reportability Response (RR) document in Clinical Document Architecture, Release 2 (CDA R2) format. This document will be created in response to an electronic Initial Case Report (eICR) CDA document and the sharing of the Reportability Response with clinical care will serve several functions, including to:

- Communicate the reportability status, for the responsible PHA(s) of each condition included in the electronic Initial Case Report (eICR)
- Identify who (a PHA or an intermediary) prepared the Reportability Response
- Indicate whether the eICR has been sent to one or more PHA(s)
- Identify which PHA(s) has/have been sent the eICR
- Provide contact information for the responsible PHA(s)
- Provide suggested or required clinical follow-up activities from the responsible PHA(s), including any additional reporting needs or infection control activities
- Provide access to clinical support resources suggested by the responsible PHA(s) for identified reportable conditions
- Confirm eICR receipt and processing

A Reportability Response will also, when requested, be shared with the responsible PHAs (when they have not constructed it) for their internal use, so they understand what has been shared with clinical

care and, and to monitor/audit decision support algorithm effectiveness and implementation. When a condition is considered reportable to more than one PHA, the Reportability Response can be helpful in communicating reporting that has been done to other PHAs.

The Reportability Response CDA document is also structured to allow:

- Notification, alerting, routing and queueing in work or message management systems for healthcare personnel

- Dynamic and static URIs for supplemental data collection and the provision of information resources

- The narrative structure of a Reportability Response CDA document can take two different forms, depending on the processing status of the eICR CDA document to which it is a response. These forms are as follows:

- If the eICR CDA document was processed, then all three top-level sections (Reportability Response Subject Section, Reportability Response Summary Section and Electronic Initial Case Report Section) will have narrative text elements:

- o Reportability Response Subject Section

- Subject text

- o Reportability Response Summary Section

- Summary text

- Narrative guidance and associated links

- o Electronic Initial Case Report Section

- eICR Identifier

- If the eICR CDA document was not processed and has errors, then only the electronic Initial Case Report Section will have a narrative text element:

- o Electronic Initial Case Report Section

- eICR Identifier (if available)

- eICR Processing Status Reason(s)

Table 22: Reportability Response Document (RR)(V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.1.2:2025-12-01)					
templateId	1..1	SHALL		5575-28	
@root	1..1	SHALL		5575-66	2.16.840.1.113883.10.20.15.2.1.2
@extension	1..1	SHALL		5575-67	2025-12-01
code	1..1	SHALL		5575-79	
@code	1..1	SHALL		5575-359	88085-6
@codeSystem	1..1	SHALL		5575-360	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
title	1..1	SHALL		5575-80	
effectiveTime	1..1	SHALL		5575-36	
@nullFlavor	0..0	SHALL NOT		5575-78	
recordTarget	1..1	SHALL		5575-29	
patientRole	1..1	SHALL		5575-30	
id	1..*	SHALL		5575-74	
@nullFlavor	0..1	MAY		5575-740	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
addr	1..*	SHALL		5575-75	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
@nullFlavor	0..1	MAY		5575-743	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
telecom	1..*	SHALL		5575-753	
@nullFlavor	0..1	MAY		5575-756	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
patient	1..1	SHALL		5575-31	
name	1..*	SHALL		5575-739	
@nullFlavor	0..1	MAY		5575-741	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
administrativeGenderCode	1..1	SHALL		5575-754	
@nullFlavor	0..1	MAY		5575-757	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
birthTime	1..1	SHALL		5575-742	
@nullFlavor	0..1	MAY		5575-744	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
sdctc:deceasedInd	1..1	SHALL		5575-73	
sdctc:deceasedTime	0..1	MAY		5575-33	
raceCode	1..1	SHALL		5575-745	

XPath	Card.	Verb	Data Type	CONF#	Value
@nullFlavor	0..1	MAY		5575-749	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
sdtc:raceCode	0..*	MAY		5575-746	
@nullFlavor	0..1	MAY		5575-750	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
ethnicGroupCode	1..1	SHALL		5575-747	
@nullFlavor	0..1	MAY		5575-751	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
sdtc:ethnicGroupCode	0..*	MAY		5575-748	
@nullFlavor	0..1	MAY		5575-752	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
guardian	0..*	SHOULD		5575-32	
addr	1..*	SHALL		5575-68	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
@nullFlavor	0..1	MAY		5575-761	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
telecom	1..*	SHALL		5575-69	
@nullFlavor	0..1	MAY		5575-758	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
guardianPerson	1..1	SHALL		5575-70	
name	1..*	SHALL		5575-755	
@nullFlavor	0..1	MAY		5575-759	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
languageCommunication	1..*	SHALL		5575-72	
@nullFlavor	0..1	MAY		5575-760	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = MSK
author	1..*	SHALL		5575-34	
time	1..1	SHALL		5575-35	US Realm Date and Time (DTM.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4)
@nullFlavor	0..0	SHALL NOT		5575-76	
assignedAuthor	1..1	SHALL		5575-77	
informationRecipient	1..1	SHALL		5575-83	
@typeCode	1..1	SHALL		5575-701	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = PRCP
intendedRecipient	1..1	SHALL		5575-674	
id	1..*	SHALL		5575-675	
@root	1..1	SHALL		5575-683	

XPath	Card.	Verb	Data Type	CONF#	Value
@extension	0..1	MAY		5575-684	
addr	1..1	SHALL		5575-685	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
telecom	1..*	SHALL		5575-686	
informationRecipient	1..1	SHALL		5575-676	
name	1..*	SHALL		5575-687	US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
receivedOrganization	0..1	SHOULD		5575-677	
id	0..*	SHOULD		5575-688	
name	1..*	SHALL		5575-689	
telecom	0..*	SHOULD		5575-690	
addr	1..1	SHALL		5575-691	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
informationRecipient	0..*	MAY		5575-678	
@typeCode	1..1	SHALL		5575-702	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = TRC
intendedRecipient	1..1	SHALL		5575-679	
id	1..*	SHALL		5575-680	
@root	1..1	SHALL		5575-692	
@extension	0..1	MAY		5575-693	
addr	1..1	SHALL		5575-694	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
telecom	1..*	SHALL		5575-695	
informationRecipient	1..1	SHALL		5575-681	
name	1..*	SHALL		5575-696	US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
receivedOrganization	0..1	SHOULD		5575-682	
id	0..*	SHOULD		5575-697	
name	1..1	SHALL		5575-698	
telecom	0..*	SHOULD		5575-699	
addr	1..1	SHALL		5575-700	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)

XPath	Card.	Verb	Data Type	CONF#	Value
					20.22.5.2
componentOf	1..1	SHALL		5575-1	
encompassingEncounter	1..1	SHALL		5575-2	
id	1..*	SHALL		5575-54	
code	1..1	SHALL		5575-55	urn:oid:2.16.840.1.113883.1.11.13955 (ActEncounterCode)
effectiveTime	1..1	SHALL		5575-3	
@nullFlavor	0..0	SHALL NOT		5575-38	
low	1..1	SHALL		5575-39	
high	1..1	SHALL		5575-40	
responsibleParty	1..1	SHALL		5575-4	
assignedEntity	1..1	SHALL		5575-5	
id	1..*	SHALL		5575-7	
@root	1..1	SHALL		5575-41	
@extension	0..1	MAY		5575-42	
addr	1..*	SHALL		5575-45	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
telecom	1..*	SHALL		5575-46	
assignedPerson	1..1	SHALL		5575-6	
name	1..1	SHALL		5575-37	US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
representedOrganization	1..1	SHALL		5575-8	
name	1..1	SHALL		5575-43	
addr	1..1	SHALL		5575-44	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
location	1..1	SHALL		5575-9	
healthCareFacility	1..1	SHALL		5575-10	
id	1..1	SHALL		5575-11	
@root	1..1	SHALL		5575-47	
@extension	0..1	MAY		5575-48	
code	1..1	SHALL		5575-53	urn:oid:2.16.840.1.113883.1.11.17660 (ServiceDeliveryLocationRoleType)
location	1..1	SHALL		5575-12	
addr	1..1	SHALL		5575-49	US Realm Address

XPath	Card.	Verb	Data Type	CONF#	Value
					(AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
serviceProviderOrganization	1..1	SHALL		5575-13	
name	1..1	SHALL		5575-50	
telecom	1..*	SHALL		5575-51	
addr	1..1	SHALL		5575-52	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
component	1..1	SHALL		5575-14	
structuredBody	1..1	SHALL		5575-141	
component	0..1	SHOULD		5575-142	
section	1..1	SHALL		5575-144	Reportability Response Subject Section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.1:2017-04-01
component	1..1	SHALL		5575-629	
section	1..1	SHALL		5575-630	Electronic Initial Case Report Section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.3:2017-04-01
component	0..1	SHOULD		5575-631	
section	1..1	SHALL		5575-632	Reportability Response Summary Section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.2:2017-04-01

1.1.3 Properties

- Conforms to [US Realm Header \(V4\)](#) template (identifier: [urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2023-05-01](#)).
- SHALL** contain exactly one [1..1] **templateId** (CONF:5575-28) such that it
 - SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.1.2" (CONF:5575-66).
 - SHALL** contain exactly one [1..1] **@extension**="2025-12-01" (CONF:5575-67).
- SHALL** contain exactly one [1..1] **code** (CONF:5575-79).
 - This code **SHALL** contain exactly one [1..1] **@code**="88085-6" Reportability response report Document Public health (CONF:5575-359).
 - This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC [urn:oid:2.16.840.1.113883.6.1](#)) (CONF:5575-360).

Recommended title: "Reportability Response"

4. **SHALL** contain exactly one [1..1] **title** (CONF:5575-80).
5. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:5575-36).
 Note: The effectiveTime indicates the date when the report was created and in almost all cases should correspond to the date when the public health case has been triggered.
 - a. This effectiveTime **SHALL NOT** contain [0..0] **@nullFlavor** (CONF:5575-78).

1.1.3.1 recordTarget

The recordTarget records the administrative and demographic data of the patient. In the Reportability Response CDA document, this data will be sourced from the eICR CDA document to which this document is a response.

6. **SHALL** contain exactly one [1..1] **recordTarget** (CONF:5575-29).
 - a. This recordTarget **SHALL** contain exactly one [1..1] **patientRole** (CONF:5575-30).
 - i. This patientRole **SHALL** contain at least one [1..*] **id** (CONF:5575-74).
 Note: Patient ID: If multiple identifiers are available, a medical record number, Social Security number, Medicaid number, or all three ***SHOULD*** be provided in this field.
 1. Such ids **MAY** contain zero or one [0..1] **@nullFlavor="MSK"** masked (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:5575-740).

Although "county" is not explicitly specified in the US Realm Address, it is not precluded from use and for the purposes of this IG it is recommended to be included.

- ii. This patientRole **SHALL** contain at least one [1..*] **US Realm Address** (**AD.US.FIELDED**) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:5575-75).
 1. Such addrs **MAY** contain zero or one [0..1] **@nullFlavor="MSK"** masked (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:5575-743).
- iii. This patientRole **SHALL** contain at least one [1..*] **telecom** (CONF:5575-753).
 1. Such telecoms **MAY** contain zero or one [0..1] **@nullFlavor="MSK"** masked (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:5575-756).
- iv. This patientRole **SHALL** contain exactly one [1..1] **patient** (CONF:5575-31).
 1. This patient **SHALL** contain at least one [1..*] **name** (CONF:5575-739).
 - a. Such names **MAY** contain zero or one [0..1] **@nullFlavor="MSK"** masked (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:5575-741).
 2. This patient **SHALL** contain exactly one [1..1] **administrativeGenderCode** (CONF:5575-754).
 - a. This administrativeGenderCode **MAY** contain zero or one [0..1] **@nullFlavor="MSK"** masked (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:5575-757).
 3. This patient **SHALL** contain exactly one [1..1] **birthTime** (CONF:5575-742).

- a. This birthTime **MAY** contain zero or one [0..1]
@nullFlavor="MSK" masked (CodeSystem: HL7NullFlavor
urn:oid:2.16.840.1.113883.5.1008) (CONF:5575-744).
4. This patient **SHALL** contain exactly one [1..1] **sdtc:deceasedInd**
(CONF:5575-73).
5. This patient **MAY** contain zero or one [0..1] **sdtc:deceasedTime**
(CONF:5575-33).
 - a. If sdtc:deceasedInd is true then sdtc:deceasedTime **SHALL** be
present (CONF:5575-71).
6. This patient **SHALL** contain exactly one [1..1] **raceCode** (CONF:5575-
745).
 - a. This raceCode **MAY** contain zero or one [0..1]
@nullFlavor="MSK" masked (CodeSystem: HL7NullFlavor
urn:oid:2.16.840.1.113883.5.1008) (CONF:5575-749).
7. This patient **MAY** contain zero or more [0..*] **sdtc:raceCode**
(CONF:5575-746).
 - a. The sdtc:raceCode, if present, **MAY** contain zero or one [0..1]
@nullFlavor="MSK" masked (CodeSystem: HL7NullFlavor
urn:oid:2.16.840.1.113883.5.1008) (CONF:5575-750).
8. This patient **SHALL** contain exactly one [1..1] **ethnicGroupCode**
(CONF:5575-747).
 - a. This ethnicGroupCode **MAY** contain zero or one [0..1]
@nullFlavor="MSK" masked (CodeSystem: HL7NullFlavor
urn:oid:2.16.840.1.113883.5.1008) (CONF:5575-751).
9. This patient **MAY** contain zero or more [0..*] **sdtc:ethnicGroupCode**
(CONF:5575-748).
 - a. The sdtc:ethnicGroupCode, if present, **MAY** contain zero or one
[0..1] @nullFlavor="MSK" masked (CodeSystem:
HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008)
(CONF:5575-752).
10. This patient **SHOULD** contain zero or more [0..*] **guardian**
(CONF:5575-32).
 - a. The guardian, 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:5575-
68).
 - i. Such addrs **MAY** contain zero or one [0..1]
@nullFlavor="MSK" masked (CodeSystem:
HL7NullFlavor
urn:oid:2.16.840.1.113883.5.1008) (CONF:5575-
761).
 - b. The guardian, if present, **SHALL** contain at least one [1..*]
telecom (CONF:5575-69).
 - i. Such telecoms **MAY** contain zero or one [0..1]
@nullFlavor="MSK" masked (CodeSystem:
HL7NullFlavor

- urn:oid:2.16.840.1.113883.5.1008) (CONF:5575-758).
- c. The guardian, if present, **SHALL** contain exactly one [1..1] **guardianPerson** (CONF:5575-70).
 - i. This guardianPerson **SHALL** contain at least one [1..*] **name** (CONF:5575-755).
 - 1. Such names **MAY** contain zero or one [0..1] **@nullFlavor="MSK"** masked (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:5575-759).
- 11. This patient **SHALL** contain at least one [1..*] **languageCommunication** (CONF:5575-72).
 - a. Such languageCommunications **MAY** contain zero or one [0..1] **@nullFlavor="MSK"** masked (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:5575-760).

1.1.3.2 author

For the Reportability Response CDA document, this will most likely be the software that is generating the response, though this will not always be the case.

- 7. **SHALL** contain at least one [1..*] **author** (CONF:5575-34).
 - 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:5575-35).
 - i. This time **SHALL NOT** contain [0..0] **@nullFlavor** (CONF:5575-76).
 - b. Such authors **SHALL** contain exactly one [1..1] **assignedAuthor** (CONF:5575-77).

1.1.3.3 informationRecipient

This primary informationRecipient contains the provider details. The provider details are obtained from the eICR encompassingEncounter/responsibleParty/assignedEntity which contains the "ResponsibleProvider" data. This data is also contained in the RR encompassingEncounter/responsibleParty/assignedEntity.

- 8. **SHALL** contain exactly one [1..1] **informationRecipient** (CONF:5575-83) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="PRCP"** Primary information recipient (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:5575-701).
 - b. **SHALL** contain exactly one [1..1] **intendedRecipient** (CONF:5575-674).
 - Note: ResponsibleProvider
 - i. This intendedRecipient **SHALL** contain at least one [1..*] **id** (CONF:5575-675).
 - Note: ResponsibleProvider.identifier
 - 1. Such ids **SHALL** contain exactly one [1..1] **@root** (CONF:5575-683).
 - 2. Such ids **MAY** contain zero or one [0..1] **@extension** (CONF:5575-684).

- ii. This intendedRecipient **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:5575-685).
Note: ResponsibleProvider.address
- iii. This intendedRecipient **SHALL** contain at least one [1..*] **telecom** (CONF:5575-686).
Note: ResponsibleProvider.telecomAddress
- iv. This intendedRecipient **SHALL** contain exactly one [1..1] **informationRecipient** (CONF:5575-676).
 - 1. This informationRecipient **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:5575-687).
Note: ResponsibleProvider.name
- v. This intendedRecipient **SHOULD** contain zero or one [0..1] **receivedOrganization** (CONF:5575-677).
Note: ResponsibleProviderFacility
 - 1. The receivedOrganization, if present, **SHOULD** contain zero or more [0..*] **id** (CONF:5575-688).
 - 2. The receivedOrganization, if present, **SHALL** contain at least one [1..*] **name** (CONF:5575-689).
Note: ProviderFacility.name
 - 3. The receivedOrganization, if present, **SHOULD** contain zero or more [0..*] **telecom** (CONF:5575-690).
Note: ProviderFacility.telecomAddress
 - 4. The receivedOrganization, if present, **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:5575-691).
Note: ProviderFacility.postalAddress

1.1.3.4 informationRecipient

There may also be secondary informationRecipients, one of which may contain the reporter details. The reporter details which are obtained from the eICR author, in cases where the author is the reporter and is not software (i.e. author/assignedAuthor/assignedPerson is present in the eICR CDA XML).

- 9. **MAY** contain zero or more [0..*] **informationRecipient** (CONF:5575-678) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="TRC"** Tracker (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:5575-702).
Note: Indicates secondary information recipient
 - b. **SHALL** contain exactly one [1..1] **intendedRecipient** (CONF:5575-679).
 - i. This intendedRecipient **SHALL** contain at least one [1..*] **id** (CONF:5575-680).
 - 1. Such ids **SHALL** contain exactly one [1..1] **@root** (CONF:5575-692).
 - 2. Such ids **MAY** contain zero or one [0..1] **@extension** (CONF:5575-693).

- ii. This intendedRecipient **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:5575-694).
- iii. This intendedRecipient **SHALL** contain at least one [1..*] **telecom** (CONF:5575-695).
- iv. This intendedRecipient **SHALL** contain exactly one [1..1] **informationRecipient** (CONF:5575-681).
 - 1. This informationRecipient **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:5575-696).
- v. This intendedRecipient **SHOULD** contain zero or one [0..1] **receivedOrganization** (CONF:5575-682).
 - 1. The receivedOrganization, if present, **SHOULD** contain zero or more [0..*] **id** (CONF:5575-697).
 - 2. The receivedOrganization, if present, **SHALL** contain exactly one [1..1] **name** (CONF:5575-698).
 - 3. The receivedOrganization, if present, **SHOULD** contain zero or more [0..*] **telecom** (CONF:5575-699).
 - 4. The receivedOrganization, if present, **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:5575-700).

1.1.3.5 componentOf

For the Reportability Response CDA document, the provider in charge of care and the facility in which care was provided during the encounter in which the eICR CDA document was triggered are contained within this element, along with that visit/encounter ID.

- 10. **SHALL** contain exactly one [1..1] **componentOf** (CONF:5575-1).
 - a. This componentOf **SHALL** contain exactly one [1..1] **encompassingEncounter** (CONF:5575-2).
 - i. This encompassingEncounter **SHALL** contain at least one [1..*] **id** (CONF:5575-54).
Note: eICR Encompassing Encounter ID
 - ii. This encompassingEncounter **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from ValueSet ActEncounterCode urn:oid:2.16.840.1.113883.1.11.13955 **DYNAMIC** (CONF:5575-55).
Note: PatientEncounter.typeCode
 - iii. This encompassingEncounter **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:5575-3).
 - 1. This effectiveTime **SHALL NOT** contain [0..0] **@nullFlavor** (CONF:5575-38).
 - 2. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:5575-39).
Note: PatientEncounter.fromDateTime
 - 3. This effectiveTime **SHALL** contain exactly one [1..1] **high** (CONF:5575-40).

Note: PatientEncounter.thruDateTime . This value is associated with the patient's departure (e.g. discharge)

- iv. This encompassingEncounter **SHALL** contain exactly one [1..1] **responsibleParty** (CONF:5575-4).

1. This responsibleParty **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:5575-5).

Note: ResponsibleProvider

- a. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:5575-7).

Note: ResponsibleProvider.identifier. If available, the NPI number *SHALL* be provided.

- i. Such ids **SHALL** contain exactly one [1..1] **@root** (CONF:5575-41).
ii. Such ids **MAY** contain zero or one [0..1] **@extension** (CONF:5575-42).

- b. 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:5575-45).

- c. This assignedEntity **SHALL** contain at least one [1..*] **telecom** (CONF:5575-46).

Note: ResponsibleProvider.telecomAddress (phone, fax, email)

- d. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:5575-6).

- i. This assignedPerson **SHALL** contain exactly one [1..1] **US Realm Person Name (PN.US.FIELDDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:5575-37).

Note: ResponsibleProvider.name

- e. This assignedEntity **SHALL** contain exactly one [1..1] **representedOrganization** (CONF:5575-8).

Note: ResponsibleProviderFacility

- i. This representedOrganization **SHALL** contain exactly one [1..1] **name** (CONF:5575-43).

Note: ProviderFacility.name

- ii. This representedOrganization **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:5575-44).

Note: ProviderFacility.postalAddress

- v. This encompassingEncounter **SHALL** contain exactly one [1..1] **location** (CONF:5575-9).

1. This location **SHALL** contain exactly one [1..1] **healthCareFacility** (CONF:5575-10).

- a. This healthCareFacility **SHALL** contain exactly one [1..1] **id** (CONF:5575-11).

Note: CareDeliveryFacility.identifier

- i. This id **SHALL** contain exactly one [1..1] **@root** (CONF:5575-47).
- ii. This id **MAY** contain zero or one [0..1] **@extension** (CONF:5575-48).

Please note: the binding to the ServiceDeliveryLocationRoleType value set is SHOULD, so, for concepts that aren't represented in this value set, it is possible to use another code from a recognized code system.

To represent "Correctional Facility" use SNOMED CT code 257656006: Correctional Facility.

- b. This healthCareFacility **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from ValueSet

[ServiceDeliveryLocationRoleType](#)

urn:oid:2.16.840.1.113883.1.11.17660 **DYNAMIC** (CONF:5575-53).

Note: CareFacility.typeCode

- c. This healthCareFacility **SHALL** contain exactly one [1..1] **location** (CONF:5575-12).

- i. This location **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:5575-49).

Note: CareDeliveryFacility.postalAddress

- d. This healthCareFacility **SHALL** contain exactly one [1..1] **serviceProviderOrganization** (CONF:5575-13).

- i. This serviceProviderOrganization **SHALL** contain exactly one [1..1] **name** (CONF:5575-50).

Note: CareDeliveryOrganization.name

- ii. This serviceProviderOrganization **SHALL** contain at least one [1..*] **telecom** (CONF:5575-51).

Note: CareDeliveryOrganization.telecomAddress

- iii. This serviceProviderOrganization **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:5575-52).

1.1.3.6 component

- 11. **SHALL** contain exactly one [1..1] **component** (CONF:5575-14).

- a. This component **SHALL** contain exactly one [1..1] **structuredBody** (CONF:5575-141).

- i. This structuredBody **SHOULD** contain zero or one [0..1] **component** (CONF:5575-142) such that it

1. **SHALL** contain exactly one [1..1] [Reportability Response Subject Section](#) (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.1:2017-04-01)
(CONF:5575-144).
 - ii. This structuredBody **SHALL** contain exactly one [1..1] **component**
(CONF:5575-629) such that it
 1. **SHALL** contain exactly one [1..1] [Electronic Initial Case Report Section](#) (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.3:2017-04-01)
(CONF:5575-630).
 - iii. This structuredBody **SHOULD** contain zero or one [0..1] **component**
(CONF:5575-631) such that it
 1. **SHALL** contain exactly one [1..1] [Reportability Response Summary Section](#) (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.2:2017-04-01)
(CONF:5575-632).
12. The Reportability Response Subject Section *SHALL* be present if the eICR CDA document was processed or was processed with a warning or severe warning (eICR Processing Status/code="RRVS19" or "RRVS20" or "RRVS21") and *SHALL NOT* be present if the eICR CDA document was not processed (eICR ProcessingStatus/code="RRVS22") (CONF:5575-635).
13. The Reportability Response Summary Section *SHALL* be present if the eICR CDA document was processed or was processed with a warning or severe warning (eICR Processing Status/code="RRVS19" or "RRVS20" or "RRVS21") and *SHALL NOT* be present if the eICR CDA document was not processed (eICR ProcessingStatus/code="RRVS22") (CONF:5575-636).

Table 23: ServiceDeliveryLocationRoleType

Value Set: ServiceDeliveryLocationRoleType urn:oid:2.16.840.1.113883.1.11.17660			
Any subtype of ServiceDeliveryLocationRoleType			
Value Set Source: http://terminology.hl7.org/ValueSet/v3-ServiceDeliveryLocationRoleType			
Code	Code System	Code System OID	Print Name
DX	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Diagnostics or therapeutics unit
CVDX	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Cardiovascular diagnostics or therapeutics unit
CATH	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Cardiac catheterization lab
ECHO	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Echocardiography lab
GIDX	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Gastroenterology diagnostics or therapeutics lab
ENDOS	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Endoscopy lab
RADDX	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	adiology diagnostics or therapeutics unit
RADO	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Radiation oncology unit
RNEU	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Neuroradiology unit
HOSP	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Hospital
...			

Table 24: ActEncounterCode

Value Set: ActEncounterCode urn:oid:2.16.840.1.113883.1.11.13955			
Domain provides codes that qualify the ActEncounterClass			
Value Set Source: http://terminology.hl7.org/ValueSet/v3-ActEncounterCode			
Code	Code System	Code System OID	Print Name
AMB	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	ambulatory
FLD	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	field
HH	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	home health
EMER	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	emergency
IMP	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	inpatient encounter
ACUTE	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	inpatient acute
NONAC	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	inpatient non-acute
PRENC	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	pre-admission
SS	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	short stay
VR	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	Virtual
...			

Figure 18: Reportability Response Document (RR)(V2)

```

<ClinicalDocument>
  <realmCode code="US" />
  <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3" />
  <!-- [C-CDA R2.1] US Realm Header (V3) -->
  <templateId root="2.16.840.1.113883.10.20.22.1.1" extension="2015-08-01" />
  <!-- [RR R1S1] Initial Public Health Case Report Reportability Response Document (RR) -
->
  <templateId root="2.16.840.1.113883.10.20.15.2" extension="2017-04-01" />
  <!-- Globally unique document ID (extension) is scoped by vendor/software -->
  <id root="18218889-5d7d-47d4-b329-31bb1c28d3b3" />
  <!-- Document Code -->
  <code code="88085-6" codeSystem="2.16.840.1.113883.6.1" displayName="Reportability
response report Document Public health" />
  <title>Reportability Response</title>
  <effectiveTime value="20161212094421-0700" />
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" displayName="Normal"
/>
  <languageCode code="en-US" />
  ...
</ClinicalDocument>

```

2 SECTION-LEVEL TEMPLATES

2.1 Electronic Initial Case Report Section

[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.3:2017-04-01
(open)]

Published as part of Reportability Response (US Realm) Release 1 STU Release
1.0

Table 25: Electronic Initial Case Report Section Contexts

Contained By:	Contains:
Reportability Response Document (RR)(V2) (required)	Received eICR Information (required) Manually Initiated eICR (optional) eICR Processing Status (required)

This section contains information about the eICR CDA document to which this document is a response. The date/time of receipt and an external document reference containing the ID of the eICR CDA document are represented in the Received eICR Information template and the processing status of the eICR CDA document is contained in the eICR Processing Status template. If the eICR CDA document was manually initiated by a healthcare provider, this is indicated by the presence of the Manually Initiated eICR template.

This section is always present in the Reportability Response CDA document.

The text element (narrative block) in this section is only populated and displayed when the eICR CDA document was not processed (eICR Processing Status/code="RRVS22", "eICR was not processed – error") and that text element contains the eICR processing status reason(s).

Table 26: Electronic Initial Case Report Section Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.3:2017-04-01)					
templateId	1..1	SHALL		3315-121	
@root	1..1	SHALL		3315-127	2.16.840.1.113883.10.20.15.2.2.3
@extension	1..1	SHALL		3315-128	2017-04-01
code	1..1	SHALL		3315-122	
@code	1..1	SHALL		3315-129	88082-3
@codeSystem	1..1	SHALL		3315-130	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
text	0..1	MAY		3315-762	
entry	1..1	SHALL		3315-126	
act	1..1	SHALL		3315-203	Received eICR Information (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.9:2017-04-01)
entry	1..1	SHALL		3315-466	
act	1..1	SHALL		3315-467	eICR Processing Status (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.29:2017-04-01)
entry	0..1	MAY		3315-477	
act	1..1	SHALL		3315-580	Manually Initiated eICR (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.22:2017-04-01)

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-121) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.2.3" (CONF:3315-127).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-128).
2. **SHALL** contain exactly one [1..1] **code** (CONF:3315-122).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="88082-3" Initial case report processing information Document (CONF:3315-129).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-130).

The text element in this section SHALL be present when the eICR CDA document was not processed (eICR Processing Status/code="RRVS22"; "eICR was not processed – error") and contains the eICR processing status reason(s).

3. **MAY** contain zero or one [0..1] **text** (CONF:3315-762).

4. **SHALL** contain exactly one [1..1] **entry** (CONF:3315-126) such that it
 - a. **SHALL** contain exactly one [1..1] Received eICR Information (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.9:2017-04-01) (CONF:3315-203).
5. **SHALL** contain exactly one [1..1] **entry** (CONF:3315-466) such that it
 - a. **SHALL** contain exactly one [1..1] eICR Processing Status (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.29:2017-04-01) (CONF:3315-467).

In the case that the eICR was manually initiated, this entry should be present.

6. **MAY** contain zero or one [0..1] **entry** (CONF:3315-477) such that it
 - a. **SHALL** contain exactly one [1..1] Manually Initiated eICR (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.22:2017-04-01) (CONF:3315-580).

Figure 19: Electronic Initial Case Report Section Example

```
<section>
  <!-- [RR R1S1] Electronic Initial Case Report Section -->
  <templateId root="2.16.840.1.113883.10.20.15.2.2.3" extension="2017-04-01" />
  <code code="88082-3"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Initial case report processing information Document" />
  <text>
    <!-- eICR Information -->
    <table>
      <tbody>
        <tr>
          <td>eICR Identifier</td>
          <td>ca316e79-aaf2-4e8c-aa5f-848093bb8bb1</td>
        </tr>
      </tbody>
    </table>
  </text>
  <entry>
    <act classCode="ACT" moodCode="INT">
      <!-- [RR R1S1] Received eICR Information -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.9" extension="2017-04-01" />
      ...
    </act>
  </entry>
  <!-- eICR Processing Status -->
  <entry>
    <act classCode="ACT" moodCode="EVN">
      <!-- [RR R1S1] eICR Processing Status -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.29" extension="2017-04-01" />
      ...
    </act>
  </entry>
  <!-- Manually Initiated eICR -->
  <entry>
    <act classCode="ACT" moodCode="EVN">
      <!-- [RR R1S1] Manually Initiated eICR -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.22" extension="2017-04-01" />
      ...
    </act>
  </entry>
</section>
```

Figure 20: Electronic Initial Case Report Section Narrative Text Example

```
<text>
  <!-- eICR Information -->
  <content styleCode="Bold">eICR Information:</content>
  <table>
    <tbody>
      <tr>
        <td>eICR Identifier</td>
        <td>ca316e79-aaf2-4e8c-aa5f-848093bb8bb1</td>
      </tr>
    </tbody>
  </table>
</text>
```

2.2 Reportability Response Subject Section

[section: identifier urn:h17ii:2.16.840.1.113883.10.20.15.2.2.1:2017-04-01
(open)]

Published as part of Reportability Response (US Realm) Release 1 STU Release 1.0

Table 27: Reportability Response Subject Section Contexts

Contained By:	Contains:
Reportability Response Document (RR)(V2) (optional)	Reportability Response Subject (required)

This section contains the subject (short description) of the Reportability Response CDA document. This information can be used in a work queue or an email subject and gives a concise description of the determination of reportability.

This section is present in the Reportability Response CDA document if the eICR CDA document was processed and is not present if the eICR CDA document was not processed.

The narrative in this section is displayed first in the Reportability Response CDA document and consists of paragraphs containing the "Subject:" heading and the subject text.

Table 28: Reportability Response Subject Section Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.1:2017-04-01)					
templateId	1..1	SHALL		3315-85	
@root	1..1	SHALL		3315-91	2.16.840.1.113883.10.20.15.2.2.1
@extension	1..1	SHALL		3315-92	2017-04-01
code	1..1	SHALL		3315-86	
@code	1..1	SHALL		3315-93	88084-9
@codeSystem	1..1	SHALL		3315-94	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
text	1..1	SHALL		3315-95	
entry	1..1	SHALL		3315-84	
act	1..1	SHALL		3315-161	Reportability Response Subject (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.7:2017-04-01)

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-85) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.2.1" (CONF:3315-91).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-92).
2. **SHALL** contain exactly one [1..1] **code** (CONF:3315-86).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="88084-9" Reportable condition response information and summary Document (CONF:3315-93).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-94).

The following text *SHALL* be rendered first in the Reportability Response CDA document narrative, much like the subject of an email.

3. **SHALL** contain exactly one [1..1] **text** (CONF:3315-95).
4. **SHALL** contain exactly one [1..1] **entry** (CONF:3315-84) such that it
 - a. **SHALL** contain exactly one [1..1] [Reportability Response Subject](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.7:2017-04-01) (CONF:3315-161).

Figure 21: Reportability Response Subject Section Example

```
<section>
  <!-- [RR R1S1] Reportability Response Subject Section -->
  <templateId root="2.16.840.1.113883.10.20.15.2.2.1" extension="2017-04-01" />
  <code code="88084-9"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Reportable condition response information and summary Document" />
  <text><br /><br />
    <paragraph>
      <content styleCode="Bold">Subject:</content>
    </paragraph>
    <paragraph>Public Health Reporting Communication: one or more conditions are
      reportable, or may be reportable, to public health.</paragraph>
  </text>
  <!-- Reportability Response Subject -->
  <entry typeCode="DRIV">
    <act classCode="ACT" moodCode="INT">
      <!-- [C-CDA R2.1] Instruction (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
      <!-- [RR R1S1] Reportability Response Subject -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.7" extension="2017-04-01" />
      ...
    </act>
  </entry>
</section>
```

2.3 Reportability Response Summary Section

[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.2:2017-04-01
(open)]

Published as part of Reportability Response (US Realm) Release 1 STU Release
1.0

Table 29: Reportability Response Summary Section Contexts

Contained By:	Contains:
Reportability Response Document (RR)(V2) (optional)	Reportability Response Coded Information Organizer (required) Reportability Response Summary (required) Reportability Response Priority (required)

This section contains the Reportability Response Summary template and the Reportability Response Priority template. This section also contains the Reportability Response Coded Information Organizer. This section is present in the Reportability Response CDA document if the eICR CDA document was processed and is not present if the eICR CDA document was not processed.

The narrative in this section is displayed last in the Reportability Response CDA document and consists of the following elements in the following order (see example below template):

- Paragraphs containing the "Summary:" heading and the summary text
- A list containing external resources from the following categories (code specified in External Resources/code), in the order specified below:
 - Outbreak- or Cluster-related
 - Additional reporting needs
 - Additional detection and/or laboratory testing needs
 - Treatment and/or prevention
 - PHA contact information
- A list containing external resources from the category (code specified in External Resources/code):
- Additional resources

Table 30: Reportability Response Summary Section Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.2:2017-04-01)					
templateId	1..1	SHALL		3315-103	
@root	1..1	SHALL		3315-109	2.16.840.1.113883.10.20.15.2.2.2
@extension	1..1	SHALL		3315-110	2017-04-01
code	1..1	SHALL		3315-104	
@code	1..1	SHALL		3315-111	55112-7
@codeSystem	1..1	SHALL		3315-112	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
text	1..1	SHALL		3315-105	
entry	1..1	SHALL		3315-108	
act	1..1	SHALL		3315-176	Reportability Response Summary (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.8:2017-04-01)
entry	1..1	SHALL		3315-613	
observation	1..1	SHALL		3315-614	Reportability Response Priority (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.30:2017-04-01)
entry	1..1	SHALL		3315-705	
organizer	1..1	SHALL		3315-706	Reportability Response Coded Information Organizer (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.34:2017-04-01)

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-103) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.2.2" (CONF:3315-109).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-110).

2. **SHALL** contain exactly one [1..1] **code** (CONF:3315-104).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="55112-7" Document Summary (CONF:3315-111).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-112).
3. **SHALL** contain exactly one [1..1] **text** (CONF:3315-105).
4. **SHALL** contain exactly one [1..1] **entry** (CONF:3315-108) such that it
 - a. **SHALL** contain exactly one [1..1] Reportability Response Summary (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.8:2017-04-01) (CONF:3315-176).
5. **SHALL** contain exactly one [1..1] **entry** (CONF:3315-613) such that it
 - a. **SHALL** contain exactly one [1..1] Reportability Response Priority (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.30:2017-04-01) (CONF:3315-614).
6. **SHALL** contain exactly one [1..1] **entry** (CONF:3315-705) such that it
 - a. **SHALL** contain exactly one [1..1] Reportability Response Coded Information Organizer (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.34:2017-04-01) (CONF:3315-706).

Figure 22: Reportability Response Summary Section Example

```
<section>
  <!-- [RR R1S1] Reportability Response Summary Section -->
  <templateId root="2.16.840.1.113883.10.20.15.2.2.2" extension="2017-04-01" />
  <code code="55112-7"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Document Summary" />
  <text>
    ...
  </text>
  <!-- Reportability Response Summary -->
  <entry typeCode="DRIV">
    <act classCode="ACT" moodCode="INT">
      <!-- [C-CDA R2.1] Instruction (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
      <!-- [RR R1S1] Reportability Response Summary -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.8" extension="2017-04-01" />
      ...
    </act>
  </entry>

  <!-- Reportability Response Priority -->
  <entry typeCode="DRIV">
    <observation classCode="OBS" moodCode="EVN">
      <!-- [RR R1S1] Reportability Response Priority -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.30" extension="2017-04-01" />
      ...
    </observation>
  </entry>

  <!-- Reportability Response Coded Information Organizer -->
  <entry typeCode="DRIV">
    <organizer classCode="CLUSTER" moodCode="EVN">
      <!-- [RR R1S1] Reportability Response Coded Information Organizer -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.34" extension="2017-04-01" />
      ...
    </organizer>
  </entry>
</section>
```

Figure 23: Reportability Response Summary Section Narrative Text Example

```
<!-- The following is the suggested/recommended format and styling -->
<text>
  <paragraph>
    <content styleCode="Bold">Summary:</content>
  </paragraph>
<!--
  The following paragraph contains the text from
  Reportability Response Summary/text
  (act[templateId/@root="2.16.840.1.113883.10.20.15.2.3.8"]/text)
-->
<paragraph>Your organization electronically submitted an initial case report
to determine if reporting to public health is needed for a patient.
  "Zika virus disease (disorder)" is reportable to "State Department of Health".
  An initial case report was sent to "State Department of Health".
  Additional information may be required for this report.<br /><br />
</paragraph>
<!--
  The following paragraph uses data from the CDA elements:
  Relevant Reportable Condition Observation/value
  (observation[templateId/@root="2.16.840.1.113883.10.20.15.2.3.12"]/
  value)
  If Responsible Agency is present use:
    Responsible Agency/participantRole/playingEntity/name
    (participant[templateId/@root="2.16.840.1.113883.10.20.15.2.4.2"]/
    participantRole/playingEntity/name)
  else if Responsible Agency is not present use:
    Rules Authoring Agency/participantRole/playingEntity/name
    (participant[templateId/@root="2.16.840.1.113883.10.20.15.2.4.3"]/
    participantRole/playingEntity/name)
-->
  <paragraph>
    <content styleCode="Bold">"Zika virus disease (disorder)" for "State Department of
Health"</content>
  </paragraph>
<!--
  The following paragraph uses data from the CDA elements:
  Reporting Timeframe/value
  (observation[templateId/@root="2.16.840.1.113883.10.20.15.2.3.14"]/value)
  Reportability Information Organizer/code (Location Relevance)
  (organizer[templateId/@root="2.16.840.1.113883.10.20.15.2.3.13"]/code)
-->
  <paragraph>Reporting is required within "24 hours".
    Reporting to this Public Health Agency is based on "both patient home address and
provider facility address". </paragraph>
<!-- External Resources -->
<!--
  The following paragraphs use data from the CDA elements:
  External Reference/code/originalText
  (externalDocument[templateId/@root="2.16.840.1.113883.10.20.15.2.3.17"/
  code/originalText]
  External Reference/text/reference
  (externalDocument[templateId/@root="2.16.840.1.113883.10.20.15.2.3.17"/
  text/reference]
  External Resources/priorityCode
  (act[templateId/@root="2.16.840.1.113883.10.20.15.2.3.20"]/priorityCode)
```

```

-->
<list>
  <item>
    <paragraph>Local mosquito-borne Zika virus transmission was reported in your area.
    Increased watchfulness for symptoms of Zika virus in your patients is warranted.
    (Immediate action requested)</paragraph>
  </item>
  <item>
    <paragraph>Additional information for the required reporting of Zika must
    be submitted to State Department of Health immediately.
    This additional information can be submitted here.
    (<linkHtml
href="http://statedepartmentofhealth.gov/epi/disease/zika/Supplemental_data_form.pdf"
>Link</linkHtml> - Immediate action required)</paragraph>
  </item>
  ...
</list>
<paragraph>Additional Resources (Information only):</paragraph>
<list>
  <item>
    <paragraph>Control and prevention information for providers
    (<linkHtml href="http://statedepartmentofhealth.gov/epi/diseases/zika/plan.pdf"
    >Link</linkHtml>)</paragraph>
  </item>
  <item>
    <paragraph>Detailed condition references
    (<linkHtml href="http://statedepartmentofhealth.gov/epi/diseases/zika/plan.pdf"
    >Link</linkHtml>)</paragraph>
  </item>
  ...
</list>
</text>

```

3 ENTRY-LEVEL TEMPLATES

3.1 Determination of Reportability

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.19:2017-04-01 (open)]

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Table 31: Determination of Reportability Contexts

Contained By:	Contains:
Reportability Information Organizer (required)	Determination of Reportability Reason (optional) Determination of Reportability Rule (optional)

This template represents the determination of reportability. Reportability is "the quality or state of being reportable or not". Reportability does not equate to the patient having a condition or meeting a case definition (definitively being "a case").

For each condition included in the eICR and the relevant public health agency(s), this element indicates the determination of whether the condition is reportable to public health.

The values that can be used for the Determination of Reportability are described below.

A possible condition is:

- *Reportable* - The information provided meets reporting criteria for an associated PHA.

A possible condition:

- *May be Reportable* - The information provided may meet reporting criteria if additional information is provided. The Reportability Response will also be able to share the information needed to definitively determine reportability.

A possible condition is:

- *Not Reportable* - The information provided conclusively does not meet reporting criteria.

Some decision support systems may not be able to fully differentiate between possible conditions that are *Not Reportable* and those that *May be Reportable* if additional information is provided. In these circumstances there may only be a reportability determination of:

- *No Reporting Rule Met* - The information provided does not meet reporting criteria or may meet reporting criteria if additional information is provided.

The determination of *No Reporting Rule Met* may be provided for a possible condition or for all conditions in the eICR.

Table 32: Determination of Reportability Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.19:2017-04-01)					
@classCode	1..1	SHALL		3315-354	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-355	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-347	
@root	1..1	SHALL		3315-349	2.16.840.1.113883.10.20.15.2.3.19
@extension	1..1	SHALL		3315-350	2017-04-01
code	1..1	SHALL		3315-348	
@code	1..1	SHALL		3315-351	RR1
@codeSystem	1..1	SHALL		3315-352	urn:oid:2.16.840.1.114222.4.5.232 (PHIN Questions) = 2.16.840.1.114222.4.5.232
value	1..1	SHALL	CD	3315-353	urn:oid:2.16.840.1.113883.10.20.15.2.5.3 (Determination of Reportability (eCR))
entryRelationship	0..*	SHOULD		3315-533	
@typeCode	1..1	SHALL		3315-535	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		3315-536	Determination of Reportability Reason (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.26:2017-04-01)
entryRelationship	0..*	SHOULD		3315-534	
@typeCode	1..1	SHALL		3315-537	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		3315-538	Determination of Reportability Rule (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.27:2017-04-01)

1. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-354).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-355).
3. **SHALL** contain exactly one [1..1] templateId (CONF:3315-347) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.15.2.3.19" (CONF:3315-349).
 - b. **SHALL** contain exactly one [1..1] @extension="2017-04-01" (CONF:3315-350).
4. **SHALL** contain exactly one [1..1] code (CONF:3315-348).

- a. This code **SHALL** contain exactly one [1..1] @code="RR1" Determination of reportability (CONF:3315-351).
 - b. This code **SHALL** contain exactly one [1..1] @codeSystem="2.16.840.1.114222.4.5.232" (CodeSystem: PHIN Questions urn:oid:2.16.840.1.114222.4.5.232) (CONF:3315-352).
5. **SHALL** contain exactly one [1..1] value with @xsi:type="CD", where the code **SHALL** be selected from ValueSet [Determination of Reportability \(eCR\)](#) urn:oid:2.16.840.1.113883.10.20.15.2.5.3 **DYNAMIC** (CONF:3315-353).
6. **SHOULD** contain zero or more [0..*] entryRelationship (CONF:3315-533) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-535).
 - b. **SHALL** contain exactly one [1..1] [Determination of Reportability Reason](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.26:2017-04-01) (CONF:3315-536).
7. **SHOULD** contain zero or more [0..*] entryRelationship (CONF:3315-534) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-537).
 - b. **SHALL** contain exactly one [1..1] [Determination of Reportability Rule](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.27:2017-04-01) (CONF:3315-538).

Table 33: Determination of Reportability (eCR)

Value Set: Determination of Reportability (eCR) urn:oid:2.16.840.1.113883.10.20.15.2.5.3 This value set contains codes that specify whether a condition is reportable or not. Value Set Source: https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.3			
Code	Code System	Code System OID	Print Name
RRVS2	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	May be reportable - the triggered condition may be reportable, but a full disposition was not achieved
RRVS3	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Not reportable - all data needed for rule were available, but the condition was not determined to be reportable for the responsible jurisdiction on the basis of appropriate authoring jurisdiction rules
RRVS1	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Reportable - the triggered condition was determined to be reportable for responsible jurisdiction on the basis of appropriate authoring jurisdiction rules
RRVS4	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	No reporting rule met – no reporting rule was completely met because needed data were not available or all needed data were available but did not meet reporting requirements

Figure 24: Determination of Reportability Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- [RR R1S1] Determination of Reportability -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.19" extension="2017-04-01" />
  <id root="e39d6ae2-8c6e-4638-9b33-412996586f41" />
  <code code="RR1"
    codeSystem="2.16.840.1.114222.4.5.232"
    codeSystemName="PHIN Questions"
    displayName="Determination of reportability" />
  <value xsi:type="CD" code="RRVS1"
    displayName="Reportable"
    codeSystem="2.16.840.1.114222.4.5.274"
    codeSystemName="PHIN VS (CDC Local Coding System)" />
  <!-- Determination of Reportability Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <!-- [RR R1S1] Determination of Reportability Reason -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.26" extension="2017-04-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- Determination of Reportability Rule -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <!-- [RR R1S1] Determination of Reportability Rule -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.27" extension="2017-04-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

3.2 Determination of Reportability Reason

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.26:2017-04-01 (open)]

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Table 34: Determination of Reportability Reason Contexts

Contained By:	Contains:
Determination of Reportability (optional)	

This template contains the reason for the determination of reportability.

Table 35: Determination of Reportability Reason Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.26:2017-04-01)					
@classCode	1..1	SHALL		3315-522	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-523	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-514	
@root	1..1	SHALL		3315-517	2.16.840.1.113883.10.20.15.2.3.26
@extension	1..1	SHALL		3315-518	2017-04-01
code	1..1	SHALL		3315-515	
@code	1..1	SHALL		3315-519	RR2
@codeSystem	1..1	SHALL		3315-520	urn:oid:2.16.840.1.114222.4.5.232 (PHIN Questions) = 2.16.840.1.114222.4.5.232
value	1..1	SHALL		3315-521	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-522).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-523).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-514) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.26" (CONF:3315-517).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-518).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-515).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="RR2" Determination of Reportability Reason (CONF:3315-519).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.232" (CodeSystem: PHIN Questions urn:oid:2.16.840.1.114222.4.5.232) (CONF:3315-520).

If the determination of reportability reason is free text, set **@xsi-type**="ST".

If there is a code available, set **@xsi-type**="CD".

See examples for details of the two approaches.

5. **SHALL** contain exactly one [1..1] **value** (CONF:3315-521).

Note: Determination of reportability reason

Figure 25: Determination of Reportability Reason Example (free-text reason)

```
<observation classCode="OBS" moodCode="EVN">
  <!-- [RR R1S1] Determination of Reportability Reason -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.26" extension="2017-04-01" />
  <id root="8709a342-56ad-425a-b7b1-76a16c2dd2d5" />
  <code code="RR2"
    codeSystem="2.16.840.1.114222.4.5.232"
    codeSystemName="PHIN Questions"
    displayName="Determination of reportability reason" />
  <value xsi:type="ST">Missing required eICR data</value>
</observation>
```

Figure 26: Determination of Reportability Reason Example (coded reason)

```
<observation classCode="OBS" moodCode="EVN">
  <!-- [RR R1S1] Determination of Reportability Reason -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.26" extension="2017-04-01" />
  <id root="8709a342-56ad-425a-b7b1-76a16c2dd2d5" />
  <code code="RR2"
    codeSystem="2.16.840.1.114222.4.5.232"
    codeSystemName="PHIN Questions"
    displayName="Determination of reportability reason" />
  <value xsi:type="CD" code="RRVS27"
    displayName="Missing required eICR data"
    codeSystem="2.16.840.1.114222.4.5.274"
    codeSystemName="PHIN VS (CDC Local Coding System)" />
</observation>
```

3.3 Determination of Reportability Rule

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.27:2017-04-01 (open)]

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Table 36: Determination of Reportability Rule Contexts

Contained By:	Contains:
Determination of Reportability (optional)	

This template contains a rule that led to the determination of reportability.

Table 37: Determination of Reportability Rule Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.27:2017-04-01)					
@classCode	1..1	SHALL		3315-531	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-532	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-524	
@root	1..1	SHALL		3315-526	2.16.840.1.113883.10.20.15.2.3.27
@extension	1..1	SHALL		3315-527	2017-04-01
code	1..1	SHALL		3315-525	
@code	1..1	SHALL		3315-528	RR3
@codeSystem	1..1	SHALL		3315-529	urn:oid:2.16.840.1.114222.4.5.232 (PHIN Questions) = 2.16.840.1.114222.4.5.232
value	1..1	SHALL		3315-530	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-531).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-532).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-524) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.27" (CONF:3315-526).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-527).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-525).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="RR3" Determination of reportability rule (CONF:3315-528).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.232" (CodeSystem: PHIN Questions urn:oid:2.16.840.1.114222.4.5.232) (CONF:3315-529).

If the determination of reportability rule is free text, set **@xsi-type**="ST".

If there is a code available, set **@xsi-type**="CD".

See examples for details of the two approaches.

5. **SHALL** contain exactly one [1..1] **value** (CONF:3315-530).

Note: Determination of reportability rule

Figure 27: Determination of Reportability Rule Example (free-text rule)

```
<observation classCode="OBS" moodCode="EVN">
  <!-- [RR R1S1] Determination of Reportability Rule -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.27" extension="2017-04-01" />
  <id root="f2dfdfbb-bccb-4ee4-9b6c-0ae82b15ada6" />
  <code code="RR3"
    codeSystem="2.16.840.1.114222.4.5.232"
    codeSystemName="PHIN Questions"
    displayName="Determination of reportability rule" />
  <value xsi:type="ST">Description of rule used in reportability determination</value>
</observation>
```

Figure 28: Determination of Reportability Rule Example (coded rule)

```
<observation classCode="OBS" moodCode="EVN">
  <!-- [RR R1S1] Determination of Reportability Rule -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.27" extension="2017-04-01" />
  <id root="f2dfdfbb-bccb-4ee4-9b6c-0ae82b15ada6" />
  <code code="RR3"
    codeSystem="2.16.840.1.114222.4.5.232"
    codeSystemName="PHIN Questions"
    displayName="Determination of reportability rule" />
  <value xsi:type="CD" code="CODE_RULE_XX"
    displayName="Rule XX"
    codeSystem="CodeSystemOID"
    codeSystemName="CodeSystemName" />
</observation>
```

3.4 eICR Processing Status

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.29:2017-04-01
(open)]

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Table 38: eICR Processing Status Contexts

Contained By:	Contains:
Electronic Initial Case Report Section (required)	eICR Processing Status Reason (optional) eICR Validation Output (optional)

This template indicates the eICR CDA document processing status. If the eICR CDA document was not processed or was processed with a warning, the reason will be contained in the eICR Processing Status Reason template. If there is any output from a validator, that output will be contained in the eICR Validation Output template.

If any of the trigger codes used to generate the eICR are from an outdated version of the RCTC or the codes are marked as inactive in the latest version of the RCTC, these are flagged and the eICR

Processing Status Reason Detail template will hold the details of the outdated and expected versions of the RCTC.

Table 39: eICR Processing Status Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.29:2017-04-01)					
@classCode	1..1	SHALL		3315-574	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		3315-575	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-568	
@root	1..1	SHALL		3315-570	2.16.840.1.113883.10.20.15.2.3.29
@extension	1..1	SHALL		3315-571	2017-04-01
code	1..1	SHALL		3315-569	urn:oid:2.16.840.1.113883.10.20.15.2.5.8 (eICR Processing Status (eCR))
entryRelationship	0..*	MAY		3315-598	
@typeCode	1..1	SHALL		3315-599	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		3315-600	eICR Processing Status Reason (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.21:2017-04-01)
entryRelationship	0..*	MAY		3315-728	
@typeCode	1..1	SHALL		3315-730	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SPRT
observation	1..1	SHALL		3315-729	eICR Validation Output (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.33:2017-04-01)

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-574).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-575).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-568) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.29" (CONF:3315-570).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-571).
4. **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet [eICR Processing Status \(eCR\)](#) urn:oid:2.16.840.1.113883.10.20.15.2.5.8 **DYNAMIC** (CONF:3315-569).

5. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:3315-598) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-599).
 - b. **SHALL** contain exactly one [1..1] **eICR Processing Status Reason** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.21:2017-04-01) (CONF:3315-600).
6. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:3315-728) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="SPRT"** Has support (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-730).
 - b. **SHALL** contain exactly one [1..1] **eICR Validation Output** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.33:2017-04-01) (CONF:3315-729).
7. The eICR Processing Reason *SHALL* be present if the eICR CDA document was either not processed or was processed with a warning and *SHALL NOT* be present if the eICR CDA document was processed with no warnings or errors (CONF:3315-670).

Table 40: eICR Processing Status (eCR)

Value Set: eICR Processing Status (eCR) urn:oid:2.16.840.1.113883.10.20.15.2.5.8 This value set contains codes that describe the status of the eICR document in terms of processing by the public health decision support system. Value Set Source: https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.8			
Code	Code System	Code System OID	Print Name
RRVS20	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was processed - with a warning
RRVS19	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR processed
RRVS22	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was not processed - error
RRVS21	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was processed - with a severe warning

Figure 29: eICR Processing Status (Error) Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- [RR R1S1] eICR Processing Status -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.29" extension="2017-04-01" />
  <id root="39d966b9-8a3a-4024-93d8-138e97d5898a" />
  <code code="RRVS22"
    displayName="eICR was not processed - error"
    codeSystem="2.16.840.1.114222.4.5.274"
    codeSystemName="PHIN VS (CDC Local Coding System)" />
  <!-- eICR Processing Reason-->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <!-- [RR R1S1] eICR Processing Reason -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.21" extension="2017-04-01" />
      ...
    </observation>
  </entryRelationship>
</act>
```

Figure 30: eICR Processing Status (Warning) Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- [RR R1S1] eICR Processing Status -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.29" extension="2017-04-01" />
  <id root="39d966b9-8a3a-4024-93d8-138e97d5898a" />
  <code code="RRVS20"
    displayName="eICR was processed - with a warning"
    codeSystem="2.16.840.1.114222.4.5.274"
    codeSystemName="PHIN VS (CDC Local Coding System)" />
  <!-- eICR Processing Reason-->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <!-- [RR R1S1] eICR Processing Reason -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.21" extension="2017-04-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- eICR Validation Output -->
  <entryRelationship typeCode="SPRT">
    <observation classCode="OBS" moodCode="EVN">
      <!-- [RR R1S1] eICR Validation Output -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.33" extension="2017-04-01" />
      ...
    </observation>
  </entryRelationship>
</act>
```

Figure 31: eICR Processing Status (Processed) Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- [RR R1S1] eICR Processing Status -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.29" extension="2017-04-01" />
  <id root="39d966b9-8a3a-4024-93d8-138e97d5898a" />
  <code code="RRVS19"
    displayName="eICR processed"
    codeSystem="2.16.840.1.114222.4.5.274"
    codeSystemName="PHIN VS (CDC Local Coding System)" />
</act>
```

3.5 eICR Processing Status Reason

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.21:2017-04-01 (open)]

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Table 41: eICR Processing Status Reason Contexts

Contained By:	Contains:
eICR Processing Status (optional)	eICR Processing Status Reason Detail (optional)

If the incoming eICR was not successfully processed for a determination of reportability, this template contains the reason it was not processed. If any issues with the eICR are identified, but the file is still able to be processed, this template will contain the issues as warnings. If there are further details about the error or warning, these details will be recorded in the contained eICR Processing Status Reason Details template.

Table 42: eICR Processing Status Reason Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.21:2017-04-01)					
@classCode	1..1	SHALL		3315-475	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-476	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-468	
@root	1..1	SHALL		3315-470	2.16.840.1.113883.10.20.15.2.3.21
@extension	1..1	SHALL		3315-471	2017-04-01
code	1..1	SHALL		3315-469	
@code	1..1	SHALL		3315-472	RR6
@codeSystem	1..1	SHALL		3315-473	urn:oid:2.16.840.1.114222.4.5.232 (PHIN Questions) = 2.16.840.1.114222.4.5.232
value	1..1	SHALL		3315-474	urn:oid:2.16.840.1.113883.10.20.15.2.5.7 (eICR Processing Status Reason (eCR))
entryRelationship	0..*	MAY		3315-667	
@typeCode	1..1	SHALL		3315-668	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		3315-669	eICR Processing Status Reason Detail (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.32:2017-04-01)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-475).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-476).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-468) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.21" (CONF:3315-470).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-471).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-469).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="RR6" eICR processing status reason (CONF:3315-472).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.232" (CodeSystem: PHIN Questions urn:oid:2.16.840.1.114222.4.5.232) (CONF:3315-473).

5. **SHALL** contain exactly one [1..1] **value**, which **SHALL** be selected from ValueSet [eICR Processing Status Reason \(eCR\)](#) urn:oid:2.16.840.1.113883.10.20.15.2.5.7 **DYNAMIC** (CONF:3315-474).

Further details about the eICR processing status warnings or errors.

6. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:3315-667).
- The entryRelationship, if present, **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-668).
 - The entryRelationship, if present, **SHALL** contain exactly one [1..1] [eICR Processing Status Reason Detail](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.32:2017-04-01) (CONF:3315-669).

Table 43: eICR Processing Status Reason (eCR)

Value Set: eICR Processing Status Reason (eCR) urn:oid:2.16.840.1.113883.10.20.15.2.5.7 This value set contains codes that describe the reason for the processing status (warning or error). Value Set Source: https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.7			
Code	Code System	Code System OID	Print Name
RRVS23	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was not processed due to an error of: fatal problem with the eICR that was received
RRVS24	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was not processed due to an error of: an ongoing server problem
RRVS25	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was not processed due to an error of: significant content or format issues
RRVS26	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was processed with the warning of: invalid eICR identifier
RRVS27	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was processed with the warning of: required data not found
RRVS28	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was processed with the warning of: content or format issues
RRVS30	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was processed with the warning of: RCTC code deprecated by coding system
RRVS29	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was processed with the warning of: outdated RCTC version

Figure 32: eICR Processing Status Reason Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- [RR R1S1] eICR Processing Status Reason -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.21" extension="2017-04-01" />
  <id root="e39d6ae2-8c6e-4638-9b33-412996586f42" />
  <code code="RR6"
    codeSystem="2.16.840.1.114222.4.5.232"
    codeSystemName="PHIN Questions"
    displayName="eICR processing status reason" />
  <value xsi:type="CD" code="RRVS23"
    displayName="eICR was not processed due to an error of: fatal problem with the eICR
that was received"
    codeSystem="2.16.840.1.114222.4.5.274"
    codeSystemName="PHIN VS (CDC Local Coding System)" />
</observation>
```

3.6 eICR Processing Status Reason Detail

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.32:2017-04-01 (open)]

Published as part of Reportability Response (US Realm) Release 1 STU Release 1.0

Table 44: eICR Processing Status Reason Detail Contexts

Contained By:	Contains:
eICR Processing Status Reason (optional)	

This template contains further details about eICR processing status warnings or errors.

Table 45: eICR Processing Status Reason Detail Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.32:2017-04-01)					
@classCode	1..1	SHALL		3315-665	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-666	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-658	
@root	1..1	SHALL		3315-660	2.16.840.1.113883.10.20.15.2.3.32
@extension	1..1	SHALL		3315-661	2017-04-01
code	1..1	SHALL		3315-659	urn:oid:2.16.840.1.113883.10.20.15.2.5.10 (eICR Processing Status Reason Detail Type (eCR))
value	1..1	SHALL		3315-664	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-665).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-666).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-658) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.32" (CONF:3315-660).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-661).
4. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from ValueSet [eICR Processing Status Reason Detail Type \(eCR\)](#) urn:oid:2.16.840.1.113883.10.20.15.2.5.10 **DYNAMIC** (CONF:3315-659).

The value element has not been constrained to any one data type to allow for different values such as strings or codes.

5. **SHALL** contain exactly one [1..1] **value** (CONF:3315-664).

Table 46: eICR Processing Status Reason Detail Type (eCR)

Value Set: eICR Processing Status Reason Detail Type (eCR) urn:oid:2.16.840.1.113883.10.20.15.2.5.10 This value set contains codes that describe the type of eICR processing status detail. Value Set Source: https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.10			
Code	Code System	Code System OID	Print Name
RRVS31	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Outdated RCTC Version Detail
RRVS32	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Inactive RCTC code detail
RRVS33	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Expected RCTC Version Detail

Figure 33: eICR Processing Status Reason Detail Example (Outdated RCTC Version)

```

<!-- If the RCTC version is outdated the eICR Processing Status Reason detail will
      contain two eICR Processing Status Reason Detail templates. One will contain
      the Outdated RCTC Version (this example) and the other will contain the
      Expect RCTC Version (next example) -->
<observation classCode="OBS" moodCode="EVN">
  <!-- [RR R1S1] eICR Processing Status Reason Details -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.32" extension="2017-04-01" />
  <id root="80f7b4ff-4d96-46ef-ae8f-af1f9c1f206c" />
  <code code="RRVS31"
    displayName="Outdated RCTC Version Detail"
    codeSystem="2.16.840.1.114222.4.5.274"
    codeSystemName="PHIN VS (CDC Local Coding System)" />
  <!-- Outdated RCTC Version -->
  <value xsi:type="ST">19/05/2016</value>
</observation>

```

Figure 34: eICR Processing Status Reason Detail Example (Expected RCTC Version)

```

<!-- If the RCTC version is outdated the eICR Processing Status Reason detail will
      contain two eICR Processing Status Reason Detail templates. One will contain
      the Outdated RCTC Version (previous example) and the other will contain the
      Expect RCTC Version (next example) -->
<observation classCode="OBS" moodCode="EVN">
  <!-- [RR R1S1] eICR Processing Status Reason Details -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.32" extension="2017-04-01" />
  <id root="80f7b4ff-4d96-46ef-ae8f-af1f9c1f206c" />
  <code code="RRVS33"
    displayName="Expected RCTC Version Detail"
    codeSystem="2.16.840.1.114222.4.5.274"
    codeSystemName="PHIN VS (CDC Local Coding System)" />
  <!-- Expected RCTC Version -->
  <value xsi:type="ST">13/10/2017</value>
</observation>

```

3.7 eICR Validation Output

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.33:2017-04-01 (open)]

Published as part of Reportability Response (US Realm) Release 1 STU Release 1.0

Table 47: eICR Validation Output Contexts

Contained By:	Contains:
eICR Processing Status (optional)	

This template contains eICR validation output - this could be the actual output from a validator, or a link to a validation output file.

Table 48: eICR Validation Output Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.33:2017-04-01)					
@classCode	1..1	SHALL		3315-719	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-720	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-718	
@root	1..1	SHALL		3315-721	2.16.840.1.113883.10.20.15.2.3.33
@extension	1..1	SHALL		3315-722	2017-04-01
code	1..1	SHALL		3315-723	
@code	1..1	SHALL		3315-724	RR10
@codeSystem	1..1	SHALL		3315-725	urn:oid:2.16.840.1.114222.4.5.232 (PHIN Questions) = 2.16.840.1.114222.4.5.232
value	1..1	SHALL	ED	3315-726	
reference	0..1	MAY		3315-727	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-719).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-720).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-718) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.33" (CONF:3315-721).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-722).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-723).

- a. This code **SHALL** contain exactly one [1..1] **@code**="RR10" eICR Validation Output (CONF:3315-724).
- b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.232" (CodeSystem: PHIN Questions urn:oid:2.16.840.1.114222.4.5.232) (CONF:3315-725).

Could be the actual output from a validator, or a link to a validation output file.

5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="ED" (CONF:3315-726).
 - a. This value **MAY** contain zero or one [0..1] **reference** (CONF:3315-727).

Figure 35: eICR Validation Output (text output) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- [RR R1S1] eICR Validation Output -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.33" extension="2017-04-01" />
  <id root="80f7b4ff-4d96-46ef-ae8f-af1f9c1f206e" />
  <code code="RR10"
    displayName="eICR Validation Output"
    codeSystem="2.16.840.1.114222.4.5.232"
    codeSystemName="PHIN Questions" />
  <!-- Validation Output - this could be the actual output from a validator,
    or a link to a validation output file -->
  <value xsi:type="ED" mediaType="text/xhtml">
    <html xmlns="http://www.w3.org/1999/xhtml" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
      <head>
        <title> Results </title>
        <style type="text/css"> </style>
      </head>
      <body>
        <table>
          <thead>
            <tr>
              <th>Severity</th>
              <th>Description</th>
              <th>File</th>
              <th>Location</th>
            </tr>
          </thead>
          <tbody>
            <tr>
              <td>error</td>
              <td>SHOULD contain zero or one [0..1] setId (CONF:1098-32752).</td>
              <td>CDAR2_IG_PHCR_R2_RR_D1_2017OCT_SAMPLE.xml</td>
              <td>
                <p>Start line 415:70</p>
              </td>
            </tr>
            <tr>
              <td>error</td>
              <td>SHOULD contain zero or one [0..1] versionNumber (CONF:1098-32753).</td>
              <td>CDAR2_IG_PHCR_R2_RR_D1_2017OCT_SAMPLE.xml</td>
              <td>
                <p>Start line 415:70</p>
              </td>
            </tr>
          </tbody>
        </table>
      </body>
    </html>
  </value>
</observation>
```

Figure 36: eICR Validation Output (link to output file) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- [RR R1S1] eICR Validation Output -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.33" extension="2017-04-01" />
  <id root="80f7b4ff-4d96-46ef-ae8f-af1f9c1f206e" />
  <code code="RR10"
    displayName="eICR Validation Output"
    codeSystem="2.16.840.1.114222.4.5.232"
    codeSystemName="PHIN Questions" />
  <!-- Validation Output - this could be the actual output from a validator,
    or a link to a validation output file -->
  <value xsi:type="ED">
    <reference value="http://validation_output_file.xml" />
  </value>
</observation>
```

3.8 External Document Reference

[externalDocument: identifier

urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09 (open)]

Published as part of Consolidated CDA Templates for Clinical Notes (US Realm)
DSTU R2

Where it is necessary to reference an external clinical document, the External Document Reference template can be used to reference this external document. However, if the containing document is appending to or replacing another document in the same set, that relationship is set in the header, using ClinicalDocument/relatedDocument.

Table 49: External Document Reference Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
externalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09)					
@classCode	1..1	SHALL		1098-31931	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = DOCCLIN
@moodCode	1..1	SHALL		1098-31932	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		1098-32748	
@root	1..1	SHALL		1098-32750	2.16.840.1.113883.10.20.22.4.115
@extension	1..1	SHALL		1098-32749	2014-06-09
id	1..1	SHALL		1098-32751	
code	1..1	SHALL		1098-31933	
setId	0..1	SHOULD		1098-32752	
versionNumber	0..1	SHOULD		1098-32753	

1. **SHALL** contain exactly one [1..1] **@classCode**="DOCCLIN" Clinical Document (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1098-31931).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1098-31932).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-32748) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.115" (CONF:1098-32750).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32749).
4. **SHALL** contain exactly one [1..1] **id** (CONF:1098-32751).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-31933).
6. **SHOULD** contain zero or one [0..1] **setId** (CONF:1098-32752).
7. **SHOULD** contain zero or one [0..1] **versionNumber** (CONF:1098-32753).

Figure 37: External Document Reference Example

```
<externalDocument classCode="DOCCLIN" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.115"
    extension="2014-06-09" />
  <id root="6f1bd58b-c58f-40b7-b314-caf1294ed98b" />
  <code codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    code="57133-1"
    displayName="Referral Note" />
  <setId extension="sTT988" root="2.16.840.1.113883.19.5.99999.19" />
  <versionNumber value="1" />
</externalDocument>
```

3.8.1 eICR External Document Reference

[externalDocument: identifier

urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.10:2017-04-01 (open)]

Published as part of Reportability Response (US Realm) Release 1 STU Release 1.0

Table 50: eICR External Document Reference Contexts

Contained By:	Contains:
Received eICR Information (required)	

This template is a reference to the eICR CDA document for which this Reportability Response CDA document is a response. It contains the unique id, the setId and the versionNumber of the eICR CDA document.

Table 51: eICR External Document Reference Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
externalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.10:2017-04-01)					
@classCode	1..1	SHALL		3315-194	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = DOCCLIN
@moodCode	1..1	SHALL		3315-195	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-193	
@root	1..1	SHALL		3315-197	2.16.840.1.113883.10.20.15.2.3.10
@extension	1..1	SHALL		3315-198	2017-04-01
id	1..1	SHALL		3315-433	
code	1..1	SHALL		3315-196	
@code	1..1	SHALL		3315-199	55751-2
@codeSystem	1..1	SHALL		3315-200	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
setId	1..1	SHALL		3315-737	
versionNumber	1..1	SHALL		3315-738	

1. Conforms to [External Document Reference](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="DOCCLIN" Clinical Document (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-194).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-195).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-193) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.10" (CONF:3315-197).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-198).
5. **SHALL** contain exactly one [1..1] **id** (CONF:3315-433).
Note: eICR CDA Document ID (ClinicalDocument/id)
6. **SHALL** contain exactly one [1..1] **code** (CONF:3315-196).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="55751-2" Public Health Case Report (eICR) (CONF:3315-199).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-200).
7. **SHALL** contain exactly one [1..1] **setId** (CONF:3315-737).
8. **SHALL** contain exactly one [1..1] **versionNumber** (CONF:3315-738).

Figure 38: eICR External Document Reference Example

```
<externalDocument classCode="DOCCLIN" moodCode="EVN">
  <!-- [C-CDA R2.0 External Document Reference] -->
  <templateId root="2.16.840.1.113883.10.20.22.4.115" extension="2014-06-09" />
  <!-- [RR R1S1 eICR External Document Reference] -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.10" extension="2017-04-01" />
  <!-- ClinicalDocument/id of the eICR CDA instance that this document is in response to -->
  <id root="ca316e79-aaf2-4e8c-aa5f-848093bb8bb1" />
  <!-- eICR ClinicalDocument/code (hard coded to this) -->
  <code code="55751-2"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Public Health Case Report (eICR)" />
  <setId extension="sTT988" root="2.16.840.1.113883.19.5.99999.19" />
  <versionNumber value="1" />
</externalDocument>
```

3.9 External Reference

[externalDocument: identifier

urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01 (open)]

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Table 52: External Reference Contexts

Contained By:	Contains:
External Resources (required)	

This template contains a text description, with an optional link to an external reference, for supplemental information requests, public health contact information for the responsible agency(ies), and additional information of relevance to the relevant reportable condition.

Table 53: External Reference Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
externalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01)					
@classCode	1..1	SHALL		3315-276	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = DOC
@moodCode	1..1	SHALL		3315-277	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-271	
@root	1..1	SHALL		3315-274	2.16.840.1.113883.10.20.15.2.3.17
@extension	1..1	SHALL		3315-275	2017-04-01
id	0..*	MAY		3315-284	
code	1..1	SHALL		3315-272	
@nullFlavor	1..1	SHALL		3315-285	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = OTH
originalText	1..1	SHALL		3315-281	
text	0..1	SHOULD		3315-273	
reference	1..1	SHALL		3315-280	

1. **SHALL** contain exactly one [1..1] **@classCode**="DOC" Document (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-276).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-277).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-271) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.17" (CONF:3315-274).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-275).
4. **MAY** contain zero or more [0..*] **id** (CONF:3315-284).
5. **SHALL** contain exactly one [1..1] **code** (CONF:3315-272).
 - a. This code **SHALL** contain exactly one [1..1] **@nullFlavor**="OTH" (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:3315-285).
 - b. This code **SHALL** contain exactly one [1..1] **originalText** (CONF:3315-281).
6. **SHOULD** contain zero or one [0..1] **text** (CONF:3315-273).
 - a. The text, if present, **SHALL** contain exactly one [1..1] **reference** (CONF:3315-280).

Figure 39: External Reference Example

```
<externalDocument classCode="DOC" moodCode="EVN">
  <!-- [RR R1 STU1] External Reference -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.17" extension="2017-04-01" />
  <code nullFlavor="OTH">
    <originalText>Additional information for the required reporting of Zika
      must be submitted to State Department of Health immediately.
      This additional information can be submitted here.</originalText>
  </code>
  <text mediaType="text/html">
    <reference
value="http://statedepthealth.gov/epi/disease/zika/Supplemental_data_form.pdf" />
  </text>
</externalDocument>
```

3.10 External Resources

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01
(open)]

Published as part of Reportability Response (US Realm) Release 1 STU Release
1.0

Table 54: External Resources Contexts

Contained By:	Contains:
Relevant Reportable Condition Observation (optional) Reportability Information Organizer (optional)	External Reference (required)

This act represents one or more external resources such as a text guidance, link to access forms for additional reporting needs, additional testing and/or laboratory testing needs, treatment and/or prevention resources, Public Health Agency contact information and general additional resources. The type/category of the resource is contained in code and the priority placed on the reference is represented by priorityCode.

One or more contained External Reference templates are used to specify the external resource(s).

Table 55: External Resources Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01)					
@classCode	1..1	SHALL		3315-448	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		3315-449	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-435	
@root	1..1	SHALL		3315-440	2.16.840.1.113883.10.20.15.2.3.20
@extension	1..1	SHALL		3315-450	2017-04-01
id	1..1	SHALL		3315-597	
code	1..1	SHALL		3315-436	urn:oid:2.16.840.1.113883.10.20.15.2.5.4 (External Resource Type (eCR))
priorityCode	1..1	SHALL		3315-454	
@nullFlavor	0..0	SHALL NOT		3315-626	
@code	1..1	SHALL		3315-627	urn:oid:2.16.840.1.113883.10.20.15.2.5.5 (Reportability Priority (eCR))
reference	1..*	SHALL		3315-438	
@typeCode	1..1	SHALL		3315-444	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
externalDocument	1..1	SHALL		3315-451	External Reference (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01)

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-448).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-449).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-435) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.20" (CONF:3315-440).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-450).
4. **SHALL** contain exactly one [1..1] **id** (CONF:3315-597).
5. **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet [External Resource Type \(eCR\)](#) urn:oid:2.16.840.1.113883.10.20.15.2.5.4 **DYNAMIC** (CONF:3315-436).
Note: Type/Category of the external resource
6. **SHALL** contain exactly one [1..1] **priorityCode** (CONF:3315-454).
Note: Priority

- a. This priorityCode **SHALL NOT** contain [0..0] @nullFlavor (CONF:3315-626).
 - b. This priorityCode **SHALL** contain exactly one [1..1] @code, which **SHALL** be selected from ValueSet Reportability Priority (eCR)
urn:oid:2.16.840.1.113883.10.20.15.2.5.5 **DYNAMIC** (CONF:3315-627).
7. **SHALL** contain at least one [1..*] **reference** (CONF:3315-438).
- a. Such references **SHALL** contain exactly one [1..1] @typeCode="REFR" refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-444).
 - b. Such references **SHALL** contain exactly one [1..1] External Reference
(identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01) (CONF:3315-451).

Table 56: External Resource Type (eCR)

Value Set: External Resource Type (eCR) urn:oid:2.16.840.1.113883.10.20.15.2.5.4 This value set contains codes that describe the type/category of an external resource used in a Reportability Response. Value Set Source: https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.4			
Code	Code System	Code System OID	Print Name
RRVS13	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Outbreak- or Cluster Related
RRVS8	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Additional reporting needs
RRVS9	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Additional detection and/or laboratory testing needs
RRVS10	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Treatment and/or prevention
RRVS12	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	PHA Contact Information
RRVS11	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Additional Resources

Table 57: Reportability Priority (eCR)

Value Set: Reportability Priority (eCR) urn:oid:2.16.840.1.113883.10.20.15.2.5.5 This value set contains codes that describe the reportability priority in a Reportability Response document. Value Set Source: https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.5			
Code	Code System	Code System OID	Print Name
RRVS14	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Action required
RRVS16	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Action requested
RRVS15	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Information only
RRVS17	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Immediate action required
RRVS18	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Immediate action requested

Figure 40: External Resources Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- [RR R1S1] External Resources -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.20" extension="2017-04-01" />
  <id root="6e58ab9d-f3c9-4f87-8ddb-2bda4133ceef" />
  <code code="RRVS10"
    displayName="Treatment and/or prevention"
    codeSystem="2.16.840.1.114222.4.5.274"
    codeSystemName="PHIN VS (CDC Local Coding System)" />
  <priorityCode code="RRVS14"
    displayName="Action required"
    codeSystem="2.16.840.1.114222.4.5.274"
    codeSystemName="PHIN VS (CDC Local Coding System)" />
  <reference typeCode="REFR">
    <externalDocument classCode="DOC" moodCode="EVN">
      <!-- [RR R1 STU1] External Reference -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.17" extension="2017-04-01" />
      ...
    </externalDocument>
  </reference>
  <reference typeCode="REFR">
    <externalDocument classCode="DOC" moodCode="EVN">
      <!-- [RR R1 STU1] External Reference -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.17" extension="2017-04-01" />
      ...
    </externalDocument>
  </reference>
  ...
</act>
```

3.11 Instruction (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09 (open)]

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DSTU R2

The Instruction template can be used in several ways, such as to record patient instructions within a Medication Activity or to record fill instructions within a supply order. The template's moodCode can only be INT. If an instruction was already given, the Procedure Activity Act template (instead of this template) should be used to represent the already occurred instruction. The act/code defines the type of instruction. Though not defined in this template, a Vaccine Information Statement (VIS) document could be referenced through act/reference/externalDocument, and patient awareness of the instructions can be represented with the generic participant and the participant/awarenessCode.

Table 58: Instruction (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09)					
@classCode	1..1	SHALL		1098-7391	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1098-7392	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = INT
templateId	1..1	SHALL		1098-7393	
@root	1..1	SHALL		1098-10503	2.16.840.1.113883.10.20.22.4.20
@extension	1..1	SHALL		1098-32598	2014-06-09
code	1..1	SHALL		1098-16884	urn:oid:2.16.840.1.113883.11.20.9.34 (Patient Education)
statusCode	1..1	SHALL		1098-7396	
@code	1..1	SHALL		1098-19106	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed

1. **SHALL** contain exactly one [1..1] **@classCode="ACT"** (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7391).
2. **SHALL** contain exactly one [1..1] **@moodCode="INT"** (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7392).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7393) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.22.4.20"** (CONF:1098-10503).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-06-09"** (CONF:1098-32598).
4. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from ValueSet [Patient Education](#) urn:oid:2.16.840.1.113883.11.20.9.34 **DYNAMIC** (CONF:1098-16884).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-7396).

- a. This statusCode **SHALL** contain exactly one [1..1] @code="completed" Completed (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-19106).

Table 59: Patient Education

Value Set: Patient Education urn:oid:2.16.840.1.113883.11.20.9.34 (Clinical Focus: Interventions intended to inform the patient about a condition, its treatment, and the patient's role in the treatment),(Data Element Scope: procedure or communication),(Inclusion Criteria: All concepts descending from the Education (409073007) or the Education with explicit context (460615006) hierarchies in SNOMED CT.),(Exclusion Criteria: any concept not in the hierarchies described) This value set was imported on 6/25/2019 with a version of 20190413. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.34/expansion			
Code	Code System	Code System OID	Print Name
10189761000046105	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Hypertension exercise education (procedure)
10756541000119104	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Childbirth education done (situation)
108247002	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Visual correction training AND/OR re-education procedure (procedure)
113145005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Biofeedback training in conduction disorder, arrhythmia (regime/therapy)
113155009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Myocardial infarction education (procedure)
114641000119104	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Natural contraception education done (situation)
11581009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Swinging transfer training (regime/therapy)
11816003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Diet education (procedure)
118629009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Functional training (procedure)
11924009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Orthotics training of upper extremities (procedure)
...			

Figure 41: Instruction (V2) Example

```
<act classCode="ACT" moodCode="INT">
<templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
<code code="171044003" codeSystem="2.16.840.1.113883.6.96" displayName="immunization
education" />
<text>
  <reference value="#immunSect" />
  Possible flu-like symptoms for three days.
</text>
<statusCode code="completed" />
</act>
```

3.11.1 Reportability Response Subject

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.7:2017-04-01
(open)]

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1.0

Table 60: Reportability Response Subject Contexts

Contained By:	Contains:
Reportability Response Subject Section (required)	

This template contains a short high-level description of the determination of reportability. This information can be used to route and prioritize Reportability Responses in a work queue or an email subject.

Table 61: Reportability Response Subject Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.7:2017-04-01)					
@classCode	1..1	SHALL		3315-148	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		3315-149	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = INT
templateId	1..1	SHALL		3315-146	
@root	1..1	SHALL		3315-150	2.16.840.1.113883.10.20.15.2.3.7
@extension	1..1	SHALL		3315-151	2017-04-01
id	1..1	SHALL		3315-155	
@root	1..1	SHALL		3315-159	
code	1..1	SHALL		3315-152	
@code	1..1	SHALL		3315-153	131195008
@codeSystem	1..1	SHALL		3315-154	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
text	1..1	SHALL		3315-156	

1. Conforms to [Instruction \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode="ACT"** (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-148).
3. **SHALL** contain exactly one [1..1] **@moodCode="INT"** (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-149).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-146) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.15.2.3.7"** (CONF:3315-150).
 - b. **SHALL** contain exactly one [1..1] **@extension="2017-04-01"** (CONF:3315-151).
5. **SHALL** contain exactly one [1..1] **id** (CONF:3315-155).
 - a. This id **SHALL** contain exactly one [1..1] **@root** (CONF:3315-159).
6. **SHALL** contain exactly one [1..1] **code** (CONF:3315-152).
 - a. This code **SHALL** contain exactly one [1..1] **@code="131195008"** Subject of information (CONF:3315-153).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem="2.16.840.1.113883.6.96"** (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:3315-154).
7. **SHALL** contain exactly one [1..1] **text** (CONF:3315-156).

Figure 42: Reportability Response Subject Example

```
<act classCode="ACT" moodCode="INT">
  <!-- [C-CDA R2.1] Instruction (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
  <!-- [RR R1S1] Reportability Response Subject -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.7" extension="2017-04-01" />
  <id root="c62d8411-27a3-4d22-9ddb-a4998faea87a" />
  <code code="131195008"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Subject of information" />
  <text>Public Health Reporting Communication: one or more conditions are
    reportable, or may be reportable, to public health.</text>
  <statusCode code="completed" />
</act>
```

3.11.2 Reportability Response Summary

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.8:2017-04-01
(open)]

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1.0

Table 62: Reportability Response Summary Contexts

Contained By:	Contains:
Reportability Response Summary Section (required)	

This template contains a detailed description of the reportable condition(s) including actions the provider needs to take, any supplemental information that may be required, and where the initial case report was sent.

Table 63: Reportability Response Summary Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.8:2017-04-01)					
@classCode	1..1	SHALL		3315-170	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		3315-171	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = INT
templateId	1..1	SHALL		3315-162	
@root	1..1	SHALL		3315-168	2.16.840.1.113883.10.20.15.2.3.8
@extension	1..1	SHALL		3315-169	2017-04-01
id	1..1	SHALL		3315-164	
@root	1..1	SHALL		3315-174	
code	1..1	SHALL		3315-163	
@code	1..1	SHALL		3315-172	304561000
@codeSystem	1..1	SHALL		3315-173	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
text	1..1	SHALL		3315-165	

1. Conforms to [Instruction \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-170).
3. **SHALL** contain exactly one [1..1] **@moodCode**="INT" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-171).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-162) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.8" (CONF:3315-168).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-169).
5. **SHALL** contain exactly one [1..1] **id** (CONF:3315-164).
 - a. This id **SHALL** contain exactly one [1..1] **@root** (CONF:3315-174).
6. **SHALL** contain exactly one [1..1] **code** (CONF:3315-163).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="304561000" Informing health care professional (procedure) (CONF:3315-172).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:3315-173).
7. **SHALL** contain exactly one [1..1] **text** (CONF:3315-165).

Figure 43: Reportability Response Summary Example

```
<act classCode="ACT" moodCode="INT">
  <!-- [C-CDA R2.1] Instruction (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
  <!-- [RR R1S1] Reportability Response Summary -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.8" extension="2017-04-01" />
  <id root="7a0ed3d3-16f3-4fa9-bac5-882f5c7d44b8" />
  <code code="304561000"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Informing health care professional (procedure)" />
  <!--
    The following element uses data from the CDA elements:
    Relevant Reportable Condition Observation/value
    (observation[templateId/@root="2.16.840.1.113883.10.20.15.2.3.12"]/value)
    If Responsible Agency is present use:
      Responsible Agency/participantRole/playingEntity/name
      (participant[templateId/@root="2.16.840.1.113883.10.20.15.2.4.2"]/
      participantRole/playingEntity/name)
    else if Responsible Agency is not present use:
      Rules Authoring Agency/participantRole/playingEntity/name
      (participant[templateId/@root="2.16.840.1.113883.10.20.15.2.4.3"]/
      participantRole/playingEntity/name)
  -->
  <text>Your organization electronically submitted an initial case report to determine
    if reporting to public health is needed for a patient. "Zika virus disease (disorder)"
  is
    reportable to "State Department of Health". An initial case report was sent to
    "State Department of Health". Additional information may be required for this
  report.</text>
  <statusCode code="completed" />
</act>
```

3.12 Manually Initiated eICR

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.22:2017-04-01
(open)]

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Table 64: Manually Initiated eICR Contexts

Contained By:	Contains:
Electronic Initial Case Report Section (optional)	

When this template is present, it indicates that the eICR CDA document for which this Reportability Response CDA document is a response, was manually initiated by the provider. The eICR CDA document could also contain RCTC trigger codes.

Table 65: Manually Initiated eICR Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.22:2017-04-01)					
@classCode	1..1	SHALL		3315-462	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		3315-463	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-456	
@root	1..1	SHALL		3315-458	2.16.840.1.113883.10.20.15.2.3.22
@extension	1..1	SHALL		3315-459	2017-04-01
code	1..1	SHALL		3315-460	
@code	1..1	SHALL		3315-464	PHC1464
@codeSystem	1..1	SHALL		3315-465	urn:oid:2.16.840.1.114222.4.5.274 (PHIN VS (CDC Local Coding System)) = 2.16.840.1.114222.4.5.274

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-462).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-463).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-456) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.22" (CONF:3315-458).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-459).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-460).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="PHC1464" Manually Initiated eICR (CONF:3315-464).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.274" (CodeSystem: PHIN VS (CDC Local Coding System) urn:oid:2.16.840.1.114222.4.5.274) (CONF:3315-465).

Figure 44: Manually Initiated eICR Example

```

<act classCode="ACT" moodCode="EVN">
  <!-- [RR R1S1] Manually Initiated eICR -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.22" extension="2017-04-01" />
  <id root="39d966b9-8a3a-4024-93d8-138e97d58986" />
  <code code="PHC1464"
    displayName="Manually Initiated eICR"
    codeSystem="2.16.840.1.114222.4.5.274"
    codeSystemName="PHIN VS (CDC Local Coding System)" />
</act>

```

3.13 Received eICR Information

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.9:2017-04-01
(open)]

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Table 66: Received eICR Information Contexts

Contained By:	Contains:
Electronic Initial Case Report Section (required)	eICR External Document Reference (required)

This template contains information about the received eICR CDA document such as its filename, the date/time of receipt, and an external document reference pointing to the eICR CDA document.

Table 67: Received eICR Information Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.9:2017-04-01)					
@classCode	1..1	SHALL		3315-185	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		3315-186	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-177	
@root	1..1	SHALL		3315-183	2.16.840.1.113883.10.20.15.2.3.9
@extension	1..1	SHALL		3315-184	2017-04-01
id	1..1	SHALL		3315-179	
@root	1..1	SHALL		3315-189	
code	1..1	SHALL		3315-178	
@code	1..1	SHALL		3315-187	RR5
@codeSystem	1..1	SHALL		3315-188	urn:oid:2.16.840.1.114222.4.5.232 (PHIN Questions) = 2.16.840.1.114222.4.5.232
text	0..1	SHOULD	ST	3315-431	
effectiveTime	1..1	SHALL		3315-432	
reference	1..1	SHALL		3315-190	
@typeCode	1..1	SHALL		3315-191	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
externalDocument	1..1	SHALL		3315-192	eICR External Document Reference (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.10:2017-04-01)

1. **SHALL** contain exactly one [1..1] **@classCode="ACT"** (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-185).
2. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-186).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-177) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.15.2.3.9"** (CONF:3315-183).
 - b. **SHALL** contain exactly one [1..1] **@extension="2017-04-01"** (CONF:3315-184).
4. **SHALL** contain exactly one [1..1] **id** (CONF:3315-179).
 - a. This id **SHALL** contain exactly one [1..1] **@root** (CONF:3315-189).
5. **SHALL** contain exactly one [1..1] **code** (CONF:3315-178).
 - a. This code **SHALL** contain exactly one [1..1] **@code="RR5"** Received eICR Information (CONF:3315-187).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem="2.16.840.1.114222.4.5.232"** (CodeSystem: PHIN Questions urn:oid:2.16.840.1.114222.4.5.232) (CONF:3315-188).

The filename is recommended primarily for dealing with eICR error cases. In the case where an eICR document is unreadable for some reason, it is likely that the setId and versionNumber would be unavailable, and it is possible that the only identifying information is the eICR CDA XML document filename.

6. **SHOULD** contain zero or one [0..1] **text** (CONF:3315-431).
Note: Filename of eICR
7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:3315-432).
Note: Date and time of eICR Receipt
8. **SHALL** contain exactly one [1..1] **reference** (CONF:3315-190).
 - a. This reference **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-191).
 - b. This reference **SHALL** contain exactly one [1..1] [eICR External Document Reference](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.10:2017-04-01) (CONF:3315-192).

Figure 45: Received eICR Information Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- [RR R1S1] Received eICR Information -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.9" extension="2017-04-01" />
  <id root="6bff7990-f218-4f9d-a5aa-eb7afa6e9a3c" />
  <code code="RR5"
    codeSystem="2.16.840.1.114222.4.5.232"
    codeSystemName="PHIN VS (CDC Local Coding System)"
    displayName="Received eICR Information" />
  <!-- The filename is recommended primarily for dealing with eICR error cases.
    In the case where an eICR document is unreadable for some reason,
    it is likely that the setId and versionNumber would be unavailable,
    and it is possible that the only identifying information is the
    eICR CDA XML document filename. -->
  <text xsi:type="ST">eICR_Filename.xml</text>
  <statusCode code="completed" />
  <!-- Receipt date/time the eICR document that this document is in response to -->
  <effectiveTime value="20161212152000-0700" />
  <reference typeCode="REFR">
    <!-- This is a reference to the eICR document -->
    <externalDocument classCode="DOCCLIN" moodCode="EVN">
      <!-- [C-CDA R2.0 External Document Reference] -->
      <templateId root="2.16.840.1.113883.10.20.22.4.115" extension="2014-06-09" />
      <!-- [RR R1S1 eICR External Document Reference] -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.10" extension="2017-04-01" />
      ...
    </externalDocument>
  </reference>
</act>
```

3.14 Relevant Reportable Condition Observation

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.12:2017-04-01 (open)]

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Table 68: Relevant Reportable Condition Observation Contexts

Contained By:	Contains:
Reportability Response Coded Information Organizer (required)	Reportability Information Organizer (required) External Resources (optional)

This template represents a relevant reportable condition. It contains one (if both the patient's home and the provider location have the same responsible agency) or more (if the patient's home and provider location have different responsible agencies) Reportability Information Organizers. It may also contain external resources specific to the condition.

Table 69: Relevant Reportable Condition Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.12:2017-04-01)					
@classCode	1..1	SHALL		3315-233	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-234	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-217	
@root	1..1	SHALL		3315-225	2.16.840.1.113883.10.20.15.2.3.12
@extension	1..1	SHALL		3315-226	2017-04-01
code	1..1	SHALL		3315-434	
@code	1..1	SHALL		3315-554	64572001
@codeSystem	1..1	SHALL		3315-555	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
translation	1..1	SHALL		3315-553	
@code	1..1	SHALL		3315-556	75323-6
@codeSystem	1..1	SHALL		3315-557	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
value	1..1	SHALL	CD	3315-552	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT)
@nullFlavor	0..1	MAY		3315-731	
@code	0..1	SHOULD		3315-732	
@codeSystem	0..1	SHOULD		3315-733	
@displayName	0..1	SHOULD		3315-734	
originalText	0..1	MAY		3315-735	
entryRelationship	1..*	SHALL		3315-548	
organizer	1..1	SHALL		3315-550	Reportability Information Organizer (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.13:2017-04-01)
entryRelationship	0..*	MAY		3315-549	
act	1..1	SHALL		3315-551	External Resources (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01)

1. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-233).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-234).
3. **SHALL** contain exactly one [1..1] templateId (CONF:3315-217) such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.12" (CONF:3315-225).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-226).
- 4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-434).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="64572001" Condition (CONF:3315-554).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:3315-555).
 - c. This code **SHALL** contain exactly one [1..1] **translation** (CONF:3315-553).
 - i. This translation **SHALL** contain exactly one [1..1] **@code**="75323-6" Condition (CONF:3315-556).
 - ii. This translation **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-557).
- 5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD", where the code **SHALL** be selected from CodeSystem SNOMED CT (urn:oid:2.16.840.1.113883.6.96) **DYNAMIC** (CONF:3315-552).

Set nullFlavor='NA' when the eICR is manually initiated or no reportable condition has been identified (e.g. when there is no rule met).

Set nullFlavor='OTH' and use originalText if there is no available condition code.

- a. This value **MAY** contain zero or one [0..1] **@nullFlavor** (CONF:3315-731).
 - b. This value **SHOULD** contain zero or one [0..1] **@code** (CONF:3315-732).
 - c. This value **SHOULD** contain zero or one [0..1] **@codeSystem** (CONF:3315-733).
 - d. This value **SHOULD** contain zero or one [0..1] **@displayName** (CONF:3315-734).
 - e. This value **MAY** contain zero or one [0..1] **originalText** (CONF:3315-735).
 - f. If **@code** is present then **@codeSystem** and **@displayName** must both be present (CONF:3315-736).
- 6. **SHALL** contain at least one [1..*] **entryRelationship** (CONF:3315-548) such that it
 - a. **SHALL** contain exactly one [1..1] Reportability Information Organizer (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.13:2017-04-01) (CONF:3315-550).
- 7. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:3315-549) such that it
 - a. **SHALL** contain exactly one [1..1] External Resources (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01) (CONF:3315-551).

Figure 46: Relevant Reportable Condition Observation Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- [RR R1S1] Relevant Reportable Condition Observation -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.12" extension="2017-04-01" />
  <id root="a054d401-7b23-4b15-bc28-c889c156ba6a" />
  <code code="64572001"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED"
    displayName="Condition">
    <translation code="75323-6"
      codeSystem="2.16.840.1.113883.6.1"
      codeSystemName="LOINC"
      displayName="Condition" />
  </code>
  <!-- Condition code (SNOMED CT) -->
  <value xsi:type="CD" code="3928002"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Zika virus disease (disorder)" />
  <!-- Relevant Location Reporting Information Organizer: Both Home and Provider -->
  <entryRelationship typeCode="COMP">
    <organizer classCode="CLUSTER" moodCode="EVN">
      <!-- [RR R1S1] Relevant Location Reporting Information Organizer: Both Home and
Provider -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.13" extension="2017-04-01" />
      ...
    </organizer>
  </entryRelationship>
</observation>
```

3.15 Reportability Information Organizer

[organizer: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.13:2017-04-01 (open)]

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Table 70: Reportability Information Organizer Contexts

Contained By:	Contains:
Relevant Reportable Condition Observation (required)	Reporting Timeframe (optional) Determination of Reportability (required) Routing Entity (required) Responsible Agency (optional) Rules Authoring Agency (required) External Resources (optional)

This template represents reportability information based on the PHA in which is located the patient's home, the provider facility, or both locations.

The organizer contains the Responsible Agency participant, the Rules Authoring Agency participant, and the Routing Entity participant.

Also contained in this template are the Determination of Reportability, Reporting Timeframe, and External Resources templates.

Table 71: Reportability Information Organizer Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
organizer (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.13:2017-04-01)					
@classCode	1..1	SHALL		3315-241	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = CLUSTER
@moodCode	1..1	SHALL		3315-242	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-237	
@root	1..1	SHALL		3315-239	2.16.840.1.113883.10.20.15.2.3.13
@extension	1..1	SHALL		3315-240	2017-04-01
code	1..1	SHALL		3315-581	urn:oid:2.16.840.1.113883.10.20.15.2.5.6 (Location Relevance (eCR))
statusCode	1..1	SHALL		3315-245	
@code	1..1	SHALL		3315-246	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
participant	0..*	SHOULD		3315-338	Responsible Agency (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.2:2017-04-01)
participant	1..*	SHALL		3315-429	Rules Authoring Agency (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.3:2017-04-01)
participant	1..*	SHALL		3315-543	Routing Entity (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.1:2017-04-01)
component	1..1	SHALL		3315-238	
observation	1..1	SHALL		3315-329	Determination of Reportability (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.19:2017-04-01)
component	0..1	SHOULD		3315-326	
observation	1..1	SHALL		3315-330	Reporting Timeframe (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.14:2017-04-01)
component	0..*	SHOULD		3315-328	
act	1..1	SHALL		3315-453	External Resources (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01)

1. **SHALL** contain exactly one [1..1] @classCode="CLUSTER" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-241).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-242).

3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-237) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.13" (CONF:3315-239).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-240).
4. **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet [Location Relevance \(eCR\)](#) urn:oid:2.16.840.1.113883.10.20.15.2.5.6 **DYNAMIC** (CONF:3315-581).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:3315-245).
 - a. This **statusCode** **SHALL** contain exactly one [1..1] **@code**="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3315-246).

The following participant contains information about the responsible agency.

6. **SHOULD** contain zero or more [0..*] [Responsible Agency](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.2:2017-04-01) (CONF:3315-338).

The following participant contains information about the rules authoring agency.

7. **SHALL** contain at least one [1..*] [Rules Authoring Agency](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.3:2017-04-01) (CONF:3315-429).

The following participant contains information about the routing entity.

8. **SHALL** contain at least one [1..*] [Routing Entity](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.1:2017-04-01) (CONF:3315-543).
9. **SHALL** contain exactly one [1..1] **component** (CONF:3315-238) such that it
 - a. **SHALL** contain exactly one [1..1] [Determination of Reportability](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.19:2017-04-01) (CONF:3315-329).
10. **SHOULD** contain zero or one [0..1] **component** (CONF:3315-326) such that it
 - a. **SHALL** contain exactly one [1..1] [Reporting Timeframe](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.14:2017-04-01) (CONF:3315-330).
11. **SHOULD** contain zero or more [0..*] **component** (CONF:3315-328) such that it
 - a. **SHALL** contain exactly one [1..1] [External Resources](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01) (CONF:3315-453).

Table 72: Location Relevance (eCR)

Value Set: Location Relevance (eCR) urn:oid:2.16.840.1.113883.10.20.15.2.5.6 This valueset contains codes to indicate the location because of which the responsible agency is relevant. Value Set Source: https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.6			
Code	Code System	Code System OID	Print Name
RRVS5	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Patient home address
RRVS6	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Provider facility address
RRVS7	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Both patient home address and provider facility address

Figure 47: Reportability Information Organizer Example

```
<organizer classCode="CLUSTER" moodCode="EVN">
  <!-- [RR R1S1] Reportability Information Organizer: Both Home and Provider -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.13" extension="2017-04-01" />
  <id root="fcf92143-4289-450e-9550-8d574facf626" />
  <!-- Relevant location (home, provider, or both) -->
  <code code="RRVS7" codeSystem="2.16.840.1.114222.4.5.274" codeSystemName="PHIN VS (CDC
Local Coding System)"
    displayName="Both patient home address and provider facility address">
  </code>
  <statusCode code="completed" />
  <!-- Responsible Agency: State Department of Health -->
  <!-- In this case the responsible agency is the same as the rules authoring agency -->
  <participant typeCode="LOC">
    <!-- [RR R1S1] Responsible Agency -->
    <templateId root="2.16.840.1.113883.10.20.15.2.4.2" extension="2017-04-01" />
    ...
  </participant>
  <!-- Rules Authoring Agency: State Department of Health -->
  <!-- In this case the rules authoring agency is the same as the responsible agency -->
  <participant typeCode="LOC">
    <!-- [RR R1S1] Rules Authoring Agency -->
    <templateId root="2.16.840.1.113883.10.20.15.2.4.3" extension="2017-04-01" />
    ...
  </participant>
  <!-- Routing Entity: State Department of Health -->
  <!-- The routing entity is optional -->
  <participant typeCode="LOC">
    <!-- [RR R1S1] Routing Agency -->
    <templateId root="2.16.840.1.113883.10.20.15.2.4.1" extension="2017-04-01" />
    ...
  </participant>
  <!-- Determination of Reportability: Zika/State Department of Health-->
  <component typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
      <!-- [RR R1S1] Determination of Reportability -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.19" extension="2017-04-01" />
      ...
    </observation>
  </component>
  <!-- Reporting Timeframe: Zika/State Department of Health -->
  <component typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
      <!-- [RR R1S1] Reporting Timeframe-->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.14" extension="2017-04-01" />
      ...
    </observation>
  </component>
  <!-- External Resources: additional reporting needs -->
  <component typeCode="COMP">
    <act classCode="ACT" moodCode="EVN">
      <!-- [RR R1S1] External Resources -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.20" extension="2017-04-01" />
      ...
    </act>
  </component>
</organizer>
```

```

    <!-- External Resources: Treatment and/or prevention -->
    <component typeCode="COMP">
      <act classCode="ACT" moodCode="EVN">
        <!-- [RR R1S1] External Resources -->
        <templateId root="2.16.840.1.113883.10.20.15.2.3.20" extension="2017-04-01" />
        ...
      </act>
    </component>
    <!-- External Resources: Additional resources -->
    <!-- This act contains additional external references for Zika
    The references in this act should be rendered LAST and merged with references
    in any other acts with code="RRVS11" (Additional resources) contained in this
document -->
    <component typeCode="COMP">
      <act classCode="ACT" moodCode="EVN">
        <!-- [RR R1S1] External Resources -->
        <templateId root="2.16.840.1.113883.10.20.15.2.3.20" extension="2017-04-01" />
        ...
      </act>
    </component>
  </organizer>

```

3.16 Reportability Response Coded Information Organizer

[organizer: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.34:2017-04-01 (open)]

Published as part of Reportability Response (US Realm) Release 1 STU Release 1.0

Table 73: Reportability Response Coded Information Organizer Contexts

Contained By:	Contains:
Reportability Response Summary Section (required)	Relevant Reportable Condition Observation (required)

This organizer contains the coded information for the Reportability Response CDA document. This includes relevant reportable conditions, the determination of reportability for such conditions, if available, the Responsible Agency(ies), what agencies have been sent an eICR CDA document, the reporting timeframe, and any additional reporting action(s).

Table 74: Reportability Response Coded Information Organizer Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
organizer (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.34:2017-04-01)					
@classCode	1..1	SHALL		3315-707	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = CLUSTER
@moodCode	1..1	SHALL		3315-708	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-131	
@root	1..1	SHALL		3315-137	2.16.840.1.113883.10.20.15.2.3.34
@extension	1..1	SHALL		3315-138	2017-04-01
code	1..1	SHALL		3315-132	
@code	1..1	SHALL		3315-139	RR11
@codeSystem	1..1	SHALL		3315-140	urn:oid:2.16.840.1.114222.4.5.232 (PHIN Questions) = 2.16.840.1.114222.4.5.232
statusCode	1..1	SHALL		3315-709	
@code	1..1	SHALL		3315-710	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
component	1..*	SHALL		3315-703	
observation	1..1	SHALL		3315-704	Relevant Reportable Condition Observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.12:2017-04-01)

1. **SHALL** contain exactly one [1..1] **@classCode**="CLUSTER" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-707).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-708).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-131) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.34" (CONF:3315-137).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-138).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-132).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="RR11" Reportability Response Coded Information (CONF:3315-139).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.232" (CodeSystem: PHIN Questions urn:oid:2.16.840.1.114222.4.5.232) (CONF:3315-140).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:3315-709).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3315-710).
6. **SHALL** contain at least one [1..*] **component** (CONF:3315-703) such that it

- a. **SHALL** contain exactly one [1..1] [Relevant Reportable Condition Observation](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.12:2017-04-01) (CONF:3315-704).

Figure 48: Reportability Response Coded Information Organizer Example

```
<organizer classCode="CLUSTER" moodCode="EVN">
  <!-- [RR R1S1] Reportability Response Coded Information Organizer -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.34" extension="2017-04-01" />
  <code code="RR11"
    displayName="Reportability Response Coded Information"
    codeSystem="2.16.840.1.114222.4.5.232"
    codeSystemName="PHIN Questions" />
  <statusCode code="completed" />
  <!-- Relevant Reportable Condition Observation: Zika -->
  <component>
    <observation classCode="OBS" moodCode="EVN">
      <!-- [RR R1S1] Relevant Reportable Condition Observation -->
      <templateId root="2.16.840.1.113883.10.20.15.2.3.12" extension="2017-04-01" />
      ...
    </observation>
  </component>
</organizer>
```

3.17 Reportability Response Priority

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.30:2017-04-01 (open)]

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Table 75: Reportability Response Priority Contexts

Contained By:	Contains:
Reportability Response Summary Section (required)	

This template represents a priority for the Reportability Response CDA document overall. It has been calculated from the highest priority of any included External Resources or the highest priority of included conditions based on a separate, jurisdictionally developed priority list.

This “document”-level priority should be used for EHR workflow including notification, alerting, routing and queueing (see Volume 4).

Table 76: Reportability Response Priority Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.30:2017-04-01)					
@classCode	1..1	SHALL		3315-605	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-606	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-602	
@root	1..1	SHALL		3315-607	2.16.840.1.113883.10.20.15.2.3.30
@extension	1..1	SHALL		3315-612	2017-04-01
code	1..1	SHALL		3315-603	
@code	1..1	SHALL		3315-609	RR9
@codeSystem	1..1	SHALL		3315-610	urn:oid:2.16.840.1.114222.4.5.232 (PHIN Questions) = 2.16.840.1.114222.4.5.232
value	1..1	SHALL	CD	3315-611	urn:oid:2.16.840.1.113883.10.20.15.2.5.5 (Reportability Priority (eCR))

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-605).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-606).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-602) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.30" (CONF:3315-607).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-612).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-603).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="RR9" Reportability Priority (CONF:3315-609).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.232" (CodeSystem: PHIN Questions urn:oid:2.16.840.1.114222.4.5.232) (CONF:3315-610).
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD", where the code **SHALL** be selected from ValueSet [Reportability Priority \(eCR\)](#) urn:oid:2.16.840.1.113883.10.20.15.2.5.5 **DYNAMIC** (CONF:3315-611).

Figure 49: Priority Preference Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- [RR R1S1] Reportability Response Priority -->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.30" extension="2017-04-01" />
  <code code="RR9"
    codeSystem="2.16.840.1.114222.4.5.232"
    codeSystemName="PHIN Questions"
    displayName="Reportability response priority" />
  <value xsi:type="CD" code="RRVS17"
    displayName="Action required"
    codeSystem="2.16.840.1.114222.4.5.274"
    codeSystemName="PHIN VS (CDC Local Coding System)" />
</observation>
```

3.18 Reporting Timeframe

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.14:2017-04-01 (open)]

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Table 77: Reporting Timeframe Contexts

Contained By:	Contains:
Reportability Information Organizer (optional)	

This template represents the timeframe in which the receiver should take the actions specified.

Table 78: Reporting Timeframe Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.14:2017-04-01)					
@classCode	1..1	SHALL		3315-256	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-257	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-249	
@root	1..1	SHALL		3315-251	2.16.840.1.113883.10.20.15.2.3.14
@extension	1..1	SHALL		3315-252	2017-04-01
code	1..1	SHALL		3315-250	
@code	1..1	SHALL		3315-253	RR4
@codeSystem	1..1	SHALL		3315-254	urn:oid:2.16.840.1.114222.4.5.232 (PHIN Questions) = 2.16.840.1.114222.4.5.232
value	1..1	SHALL	PQ	3315-255	
@value	1..1	SHALL		3315-671	
@unit	1..1	SHALL		3315-672	urn:oid:2.16.840.1.113883.6.8 (UCUM)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-256).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-257).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-249) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.14" (CONF:3315-251).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-252).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-250).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="RR4" Timeframe to report (urgency) (CONF:3315-253).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.232" (CodeSystem: PHIN Questions urn:oid:2.16.840.1.114222.4.5.232) (CONF:3315-254).
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="PQ" (CONF:3315-255).
 - a. This value **SHALL** contain exactly one [1..1] **@value** (CONF:3315-671).
 - b. This value **SHALL** contain exactly one [1..1] **@unit**, which **SHOULD** be selected from CodeSystem UCUM (urn:oid:2.16.840.1.113883.6.8) **DYNAMIC** (CONF:3315-672).

Figure 50: Reporting Timeframe Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- [RR R1S1] Reporting Timeframe-->
  <templateId root="2.16.840.1.113883.10.20.15.2.3.14" extension="2017-04-01" />
  <id root="8334d0bd-a404-4e12-9e9c-e278669e59ba" />
  <code code="RR4"
    codeSystem="2.16.840.1.114222.4.5.232"
    codeSystemName="PHIN Questions"
    displayName="Timeframe to report (urgency)" />
  <value xsi:type="PQ" value="24" unit="h" />
</observation>
```

4 PARTICIPATION AND OTHER TEMPLATES

4.1 Responsible Agency

[participant: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.2:2017-04-01 (open)]

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Table 79: Responsible Agency Contexts

Contained By:	Contains:
Reportability Information Organizer (optional)	

This template represents a Responsible Agency. A Responsible Agency is a PHA to which reporting is legally required. This represents the PHA for the location in which care was provided and/or where the patient lives.

Table 80: Responsible Agency Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
participant (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.2:2017-04-01)					
@typeCode	1..1	SHALL		3315-407	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = LOC
templateId	1..1	SHALL		3315-401	
@root	1..1	SHALL		3315-405	2.16.840.1.113883.10.20.15.2.4.2
@extension	1..1	SHALL		3315-406	2017-04-01
participantRole	1..1	SHALL		3315-402	
id	0..*	SHOULD		3315-412	
code	1..1	SHALL		3315-403	
@code	1..1	SHALL		3315-408	RR8
@codeSystem	1..1	SHALL		3315-409	urn:oid:2.16.840.1.114222.4.5.232 (PHIN Questions) = 2.16.840.1.114222.4.5.232
addr	1..*	SHALL		3315-413	
telecom	1..*	SHALL		3315-414	
playingEntity	1..1	SHALL		3315-404	
name	1..1	SHALL		3315-410	
desc	0..1	MAY		3315-411	

1. **SHALL** contain exactly one [1..1] @typeCode="LOC" Location (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-407).

2. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-401) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.4.2" (CONF:3315-405).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-406).
3. **SHALL** contain exactly one [1..1] **participantRole** (CONF:3315-402).
 - a. This participantRole **SHOULD** contain zero or more [0..*] **id** (CONF:3315-412).
Note: Responsible Agency id
 - b. This participantRole **SHALL** contain exactly one [1..1] **code** (CONF:3315-403).
 - i. This code **SHALL** contain exactly one [1..1] **@code**="RR8" Responsible Agency (CONF:3315-408).
 - ii. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.232" (CodeSystem: PHIN Questions urn:oid:2.16.840.1.114222.4.5.232) (CONF:3315-409).
 - c. This participantRole **SHALL** contain at least one [1..*] **addr** (CONF:3315-413).
 - d. This participantRole **SHALL** contain at least one [1..*] **telecom** (CONF:3315-414).
 - e. This participantRole **SHALL** contain exactly one [1..1] **playingEntity** (CONF:3315-404).
 - i. This playingEntity **SHALL** contain exactly one [1..1] **name** (CONF:3315-410).
Note: Responsible agency name
 - ii. This playingEntity **MAY** contain zero or one [0..1] **desc** (CONF:3315-411).
Note: Responsible agency description

Figure 51: Responsible Agency Example

```
<participant typeCode="LOC">
  <!-- [RR R1S1] Responsible Agency -->
  <templateId root="2.16.840.1.113883.10.20.15.2.4.2" extension="2017-04-01" />
  <!-- If the responsible and authoring agencies are the same
        then they will have the same identifying and contact details -->
  <participantRole>
    <id extension="12341234" root="2.16.840.1.113883.4.6" />
    <code code="RR8"
      displayName="Responsible Agency"
      codeSystem="2.16.840.1.114222.4.5.232"
      codeSystemName="PHIN Questions"> </code>
    <addr use="WP">
      <streetAddressLine>7777 Health Authority Drive</streetAddressLine>
      <city>Ann Arbor</city>
      <state>MI</state>
      <postalCode>99999</postalCode>
    </addr>
    <telecom use="WP" value="tel:+1-555-555-3555" />
    <telecom use="WP" value="fax:+1-955-555-3555" />
    <telecom use="WP" value="mailto:mail@healthauthoritywest.gov" />
    <telecom use="WP" value="https://www.healthauthoritywest.gov" />
    <playingEntity>
      <name>Health Authority West</name>
      <desc>Responsible Agency Description</desc>
    </playingEntity>
  </participantRole>
</participant>
```

4.2 Routing Entity

[participant: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.1:2017-04-01 (open)]

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Table 81: Routing Entity Contexts

Contained By:	Contains:
Reportability Information Organizer (required)	

This template represents the Routing Entity. A Routing Entity is a PHA or other organization identified by the PHA (such as an HIE) to which the eICR and/or the Reportability Response will be provided immediately following the creation of the Reportability Response. This entity may just be acting to route the eICR and Reportability Response on their way to a Responsible Agency.

Table 82: Routing Entity Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
participant (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.1:2017-04-01)					
@typeCode	1..1	SHALL		3315-388	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = LOC
templateId	1..1	SHALL		3315-387	
@root	1..1	SHALL		3315-389	2.16.840.1.113883.10.20.15.2.4.1
@extension	1..1	SHALL		3315-390	2017-04-01
participantRole	1..1	SHALL		3315-391	
id	0..*	SHOULD		3315-394	
code	1..1	SHALL		3315-392	
@code	1..1	SHALL		3315-395	RR7
@codeSystem	1..1	SHALL		3315-396	urn:oid:2.16.840.1.114222.4.5.232 (PHIN Questions) = 2.16.840.1.114222.4.5.232
addr	1..*	SHOULD		3315-397	
telecom	1..*	SHOULD		3315-398	
playingEntity	1..1	SHALL		3315-393	
name	1..1	SHALL		3315-399	
desc	0..1	MAY		3315-400	

1. **SHALL** contain exactly one [1..1] **@typeCode**="LOC" Location (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-388).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-387) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.4.1" (CONF:3315-389).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-390).
3. **SHALL** contain exactly one [1..1] **participantRole** (CONF:3315-391).
 - a. This participantRole **SHOULD** contain zero or more [0..*] **id** (CONF:3315-394).
 - b. This participantRole **SHALL** contain exactly one [1..1] **code** (CONF:3315-392).
 Note: Routing Entity id
 - i. This code **SHALL** contain exactly one [1..1] **@code**="RR7" Routing Entity (CONF:3315-395).
 - ii. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.232" (CodeSystem: PHIN Questions urn:oid:2.16.840.1.114222.4.5.232) (CONF:3315-396).
 - c. This participantRole **SHOULD** contain at least one [1..*] **addr** (CONF:3315-397).
 - d. This participantRole **SHOULD** contain at least one [1..*] **telecom** (CONF:3315-398).
 - e. This participantRole **SHALL** contain exactly one [1..1] **playingEntity** (CONF:3315-393).

- i. This playingEntity **SHALL** contain exactly one [1..1] **name** (CONF:3315-399).
Note: Routing entity name
- ii. This playingEntity **MAY** contain zero or one [0..1] **desc** (CONF:3315-400).
Note: Routing entity description

Figure 52: Routing Entity Example

```
<participant typeCode="LOC">
  <!-- [RR RLS1] Routing Agency -->
  <templateId root="2.16.840.1.113883.10.20.15.2.4.1" extension="2017-04-01" />
  <participantRole>
    <id extension="43214321" root="2.16.840.1.113883.4.6" />
    <code code="RR7"
      displayName="Routing Entity"
      codeSystem="2.16.840.1.114222.4.5.232"
      codeSystemName="PHIN Questions" />
    <addr use="WP">
      <streetAddressLine>7777 Health Authority Drive</streetAddressLine>
      <city>Ann Arbor</city>
      <state>MI</state>
      <postalCode>99999</postalCode>
    </addr>
    <telecom use="WP" value="tel:+1-555-555-3555" />
    <telecom use="WP" value="fax:+1-955-555-3555" />
    <telecom use="WP" value="mailto:mail@healthauthoritywest.gov" />
    <telecom use="WP" value="https://www.healthauthoritywest.gov" />
    <playingEntity>
      <name>Health Authority West Routing Entity</name>
      <desc>Routing Entity Description</desc>
    </playingEntity>
  </participantRole>
</participant>
```

4.3 Rules Authoring Agency

[participant: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.3:2017-04-01 (open)]

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Table 83: Rules Authoring Agency Contexts

Contained By:	Contains:
Reportability Information Organizer (required)	

This template represents the Rules Authoring Agency. The Rules Authoring Agency is whose rules are being executed in decision support to determine reportability. This may be a State or Local PHA. In the majority of cases the Rules Authoring Agency will be the same as the Responsible Agency. Usually, a Local Public Health Agency will inherit rules from its relevant State agency, but a Local agency can adopt, replace or supplement relevant state rules.

Table 84: Rules Authoring Agency Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
participant (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.3:2017-04-01)					
@typeCode	1..1	SHALL		3315-428	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = LOC
templateId	1..1	SHALL		3315-415	
@root	1..1	SHALL		3315-419	2.16.840.1.113883.10.20.15.2.4.3
@extension	1..1	SHALL		3315-420	2017-04-01
participantRole	1..1	SHALL		3315-416	
id	0..*	SHOULD		3315-425	
code	1..1	SHALL		3315-417	
@code	1..1	SHALL		3315-421	RR12
@codeSystem	1..1	SHALL		3315-422	urn:oid:2.16.840.1.114222.4.5.232 (PHIN Questions) = 2.16.840.1.114222.4.5.232
addr	1..*	SHALL		3315-426	
telecom	1..*	SHALL		3315-427	
playingEntity	1..1	SHALL		3315-418	
name	1..1	SHALL		3315-423	
desc	0..1	MAY		3315-424	

1. **SHALL** contain exactly one [1..1] **@typeCode**="LOC" Location (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-428).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-415) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.4.3" (CONF:3315-419).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-420).
3. **SHALL** contain exactly one [1..1] **participantRole** (CONF:3315-416).
 - a. This participantRole **SHOULD** contain zero or more [0..*] **id** (CONF:3315-425).
Note: Authoring Agency id
 - b. This participantRole **SHALL** contain exactly one [1..1] **code** (CONF:3315-417).
 - i. This code **SHALL** contain exactly one [1..1] **@code**="RR12" Rules Authoring Agency (CONF:3315-421).
 - ii. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.232" (CodeSystem: PHIN Questions urn:oid:2.16.840.1.114222.4.5.232) (CONF:3315-422).
 - c. This participantRole **SHALL** contain at least one [1..*] **addr** (CONF:3315-426).
 - d. This participantRole **SHALL** contain at least one [1..*] **telecom** (CONF:3315-427).
 - e. This participantRole **SHALL** contain exactly one [1..1] **playingEntity** (CONF:3315-418).

- i. This playingEntity **SHALL** contain exactly one [1..1] **name** (CONF:3315-423).
Note: Authoring agency name
- ii. This playingEntity **MAY** contain zero or one [0..1] **desc** (CONF:3315-424).
Note: Authoring agency description

Figure 53: Rules Authoring Agency Example

```
<participant typeCode="LOC">
  <!-- [RR R1S1] Rules Authoring Agency -->
  <templateId root="2.16.840.1.113883.10.20.15.2.4.3" extension="2017-04-01" />
  <!-- If the responsible and rules authoring agencies are the same
    then they will have the same identifying and contact details -->
  <participantRole>
    <id extension="12341234" root="2.16.840.1.113883.4.6" />
    <code code="RR12"
      displayName="Rules Authoring Agency"
      codeSystem="2.16.840.1.114222.4.5.232"
      codeSystemName="PHIN Questions" />
    <addr use="WP">
      <streetAddressLine>7777 Health Authority Drive</streetAddressLine>
      <city>Ann Arbor</city>
      <state>MI</state>
      <postalCode>99999</postalCode>
    </addr>
    <telecom use="WP" value="tel:+1-555-555-3555" />
    <telecom use="WP" value="fax:+1-955-555-3555" />
    <telecom use="WP" value="mailto:mail@healthauthoritywest.gov" />
    <telecom use="WP" value="https://www.healthauthoritywest.gov" />
    <playingEntity>
      <name>Health Authority West</name>
      <desc>Rules Authoring Agency Description</desc>
    </playingEntity>
  </participantRole>
</participant>
```

4.4 US Realm Address (AD.US.FIELDDED)

[addr: identifier urn:oid:2.16.840.1.113883.10.20.22.5.2 (open)]

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DSTU R1.1

Table 85: US Realm Address (AD.US.FIELDDED) Contexts

Contained By:	Contains:
US Realm Header (V4) (optional) US Realm Header (V4) (required) Reportability Response Document (RR)(V2) (optional) Reportability Response Document (RR)(V2) (required)	

Reusable address template, for use in US Realm CDA Header.

Table 86: US Realm Address (AD.US.FIELDDED) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
addr (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)					
@use	0..1	SHOULD		81-7290	urn:oid:2.16.840.1.113883.1.11.10637 (PostalAddressUse)
country	0..1	SHOULD		81-7295	urn:oid:2.16.840.1.113883.3.88.12.80.63 (Country)
state	0..1	SHOULD		81-7293	urn:oid:2.16.840.1.113883.3.88.12.80.1 (StateValueSet)
city	1..1	SHALL		81-7292	
postalCode	0..1	SHOULD		81-7294	urn:oid:2.16.840.1.113883.3.88.12.80.2 (PostalCode)
streetAddressLine	1..4	SHALL		81-7291	

If addr/@nullFlavor is present, the remaining conformance statements *SHALL NOT* be enforced

- SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [PostalAddressUse](#) urn:oid:2.16.840.1.113883.1.11.10637 **STATIC** 2005-05-01 (CONF:81-7290).
- 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:81-7295).
- SHOULD** contain zero or one [0..1] **state** (ValueSet: [StateValueSet](#) urn:oid:2.16.840.1.113883.3.88.12.80.1 **DYNAMIC**) (CONF:81-7293).
 - If the country is US, the state element is required but **SHOULD** have @nullFlavor if the state is unknown. If country is not specified, it's assumed to be US. If country is something other than US, the state **MAY** be present but **MAY** be bound to different vocabularies (CONF:81-10024).
- SHALL** contain exactly one [1..1] **city** (CONF:81-7292).
- SHOULD** contain zero or one [0..1] **postalCode**, which **SHOULD** be selected from ValueSet [PostalCode](#) urn:oid:2.16.840.1.113883.3.88.12.80.2 **DYNAMIC** (CONF:81-7294).
 - If the country is US, the postalCode element is required but **SHOULD** have @nullFlavor if the postalCode is unknown. If country is not specified, it's assumed to be US. If country is something other than US, the postalCode **MAY** be present but **MAY** be bound to different vocabularies (CONF:81-10025).
- SHALL** contain at least one and not more than 4 **streetAddressLine** (CONF:81-7291).
- SHALL NOT** have mixed content except for white space (CONF:81-7296).

Table 87: PostalAddressUse

Value Set: PostalAddressUse urn:oid:2.16.840.1.113883.1.11.10637 (Clinical Focus: Codes indicating the intended use of a postal address, such as home, work, postal-only, or confidential.),(Data Element Scope: Used to specify the purpose of a postal address in clinical or administrative records.),(Inclusion Criteria: The value set contains all descendants of PostalAddressUse and GeneralAddressUse from AddressUse code system with exception noted below.),(Exclusion Criteria: excludes code 'OLD - no longer in use') This value set was imported on 11/20/2025 with a version of Latest. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.10637/expansion			
Code	Code System	Code System OID	Print Name
BAD	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	bad address
CONF	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	confidential address
DIR	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	direct
H	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	home address
HP	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	primary home
HV	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	vacation home
PHYS	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	physical visit address
PST	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	postal address
PUB	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	public
TMP	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	temporary address
...			

Table 88: StateValueSet

Value Set: StateValueSet urn:oid:2.16.840.1.113883.3.88.12.80.1			
Identifies addresses within the United States are recorded using the FIPS 5-2 two-letter alphabetic codes for the State, District of Columbia, or an outlying area of the United States or associated area			
Value Set Source: https://www.bls.gov/respondents/mwr/electronic-data-interchange/appendix-d-usps-state-abbreviations-and-fips-codes.htm			
Code	Code System	Code System OID	Print Name
AL	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Alabama
AK	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Alaska
AZ	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Arizona
AR	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Arkansas
CA	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	California
CO	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Colorado
CT	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Connecticut
DE	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Delaware
DC	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	District of Columbia
FL	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Florida
...			

Table 89: PostalCode

Value Set: PostalCode urn:oid:2.16.840.1.113883.3.88.12.80.2			
A value set of postal (ZIP) Code of an address in the United States			
Value Set Source: https://postalpro.usps.com/ZIP Locale Detail			
Code	Code System	Code System OID	Print Name
19009	USPostalCodes	urn:oid:2.16.840.1.113883.6.23 1	Bryn Athyn
92869-1736	USPostalCodes	urn:oid:2.16.840.1.113883.6.23 1	Orange, CA
32830-8413	USPostalCodes	urn:oid:2.16.840.1.113883.6.23 1	Lake Buena Vista, FL
...			

Figure 54: US Realm Address Example

<pre> <addr use="HP"> <streetAddressLine>22 Sample Street</streetAddressLine> <city>Beaverton</city> <state>OR</state> <postalCode>97867</postalCode> <country>US</country> </addr> </pre>
--

4.5 US Realm Date and Time (DTM.US.FIELDED)

[effectiveTime: identifier urn:oid:2.16.840.1.113883.10.20.22.5.4 (open)]

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DSTU R1.1

Table 90: US Realm Date and Time (DTM.US.FIELDED) Contexts

Contained By:	Contains:
US Realm Header (V4) (optional) US Realm Header (V4) (required) Reportability Response Document (RR)(V2) (required)	

The US Realm Clinical Document Date and Time datatype flavor records date and time information. If no time zone offset is provided, you can make no assumption about time, unless you have made a local exchange agreement.

This data type uses the same rules as US Realm Date and Time (DT.US.FIELDED), but is used with elements having a datatype of TS.

Table 91: US Realm Date and Time (DTM.US.FIELDED) Constraints Overview

X P a t h	Card	Verb	Data Type	CONF #	Value
effectiveTime	(identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4)				

- 1. **SHALL** be precise to the day (CONF:81-10127).
- 2. **SHOULD** be precise to the minute (CONF:81-10128).
- 3. **MAY** be precise to the second (CONF:81-10129).
- 4. If more precise than day, **SHOULD** include time-zone offset (CONF:81-10130).

Figure 55: US Realm Date and Time Example

<pre><!-- Common values for date/time elements would range in precision to the day YYYYMMDD to precision to the second with a time zone offset YYYYMMDDHHMMSS - ZZzz --> <!-- time element with TS data type precise to the day for a birthdate --> <time value="19800531"/> <!-- effectiveTime element with IVL<TS> data type precise to the second for an observation --> <effectiveTime> <low value="20110706122735-0800"/> <high value="20110706122815-0800"/> </effectiveTime></pre>

4.6 US Realm Patient Name (PTN.US.FIELDDED)

[name: identifier urn:oid:2.16.840.1.113883.10.20.22.5.1 (open)]

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DSTU R1.1

Table 92: US Realm Patient Name (PTN.US.FIELDDED) Contexts

Contained By:	Contains:
US Realm Header (V4) (required)	

The US Realm Patient Name datatype flavor is a set of reusable constraints that can be used for the patient or any other person. It requires a first (given) and last (family) name. If a patient or person has only one name part (e.g., patient with first name only) place the name part in the field required by the organization. Use the appropriate nullFlavor, "Not Applicable" (NA), in the other field.

For information on mixed content see the Extensible Markup Language reference

(<http://www.w3c.org/TR/2008/REC-xml-20081126/>).

Table 93: US Realm Patient Name (PTN.US.FIELDDED) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
name (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1)					
@use	0..1	MAY		81-7154	urn:oid:2.16.840.1.113883.1.11.15913 (EntityNameUse)
family	1..1	SHALL		81-7159	
@qualifier	0..1	MAY		81-7160	urn:oid:2.16.840.1.113883.11.20.9.26 (EntityPersonNamePartQualifier)
given	1..*	SHALL		81-7157	
@qualifier	0..1	MAY		81-7158	urn:oid:2.16.840.1.113883.11.20.9.26 (EntityPersonNamePartQualifier)
prefix	0..*	MAY		81-7155	
@qualifier	0..1	MAY		81-7156	urn:oid:2.16.840.1.113883.11.20.9.26 (EntityPersonNamePartQualifier)
suffix	0..1	MAY		81-7161	
@qualifier	0..1	MAY		81-7162	urn:oid:2.16.840.1.113883.11.20.9.26 (EntityPersonNamePartQualifier)

If name/@nullFlavor is present, the remaining conformance statements *SHALL NOT* be enforced

1. **MAY** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [EntityNameUse](#) urn:oid:2.16.840.1.113883.1.11.15913 **STATIC** 2005-05-01 (CONF:81-7154).
2. **SHALL** contain exactly one [1..1] **family** (CONF:81-7159).
 - a. This family **MAY** contain zero or one [0..1] **@qualifier**, which **SHALL** be selected from ValueSet [EntityPersonNamePartQualifier](#) urn:oid:2.16.840.1.113883.11.20.9.26 **STATIC** 2011-09-30 (CONF:81-7160).
3. **SHALL** contain at least one [1..*] **given** (CONF:81-7157).
 - a. Such givens **MAY** contain zero or one [0..1] **@qualifier**, which **SHALL** be selected from ValueSet [EntityPersonNamePartQualifier](#) urn:oid:2.16.840.1.113883.11.20.9.26 **STATIC** 2011-09-30 (CONF:81-7158).
 - b. The second occurrence of given (given[2]) if provided, **SHALL** include middle name or middle initial (CONF:81-7163).
4. **MAY** contain zero or more [0..*] **prefix** (CONF:81-7155).
 - a. The prefix, if present, **MAY** contain zero or one [0..1] **@qualifier**, which **SHALL** be selected from ValueSet [EntityPersonNamePartQualifier](#) urn:oid:2.16.840.1.113883.11.20.9.26 **STATIC** 2011-09-30 (CONF:81-7156).
5. **MAY** contain zero or one [0..1] **suffix** (CONF:81-7161).
 - a. The suffix, if present, **MAY** contain zero or one [0..1] **@qualifier**, which **SHALL** be selected from ValueSet [EntityPersonNamePartQualifier](#) urn:oid:2.16.840.1.113883.11.20.9.26 **STATIC** 2011-09-30 (CONF:81-7162).
6. **SHALL NOT** have mixed content except for white space (CONF:81-7278).

Table 94: EntityNameUse

Value Set: EntityNameUse urn:oid:2.16.840.1.113883.1.11.15913 (Clinical Focus: A set of codes advising a system or user which name in a set of names to select for a given purpose),(Data Element Scope: A set of codes advising a system or user which name in a set of names to select for a given purpose),(Inclusion Criteria: Members derived from the most recent V3 entity name use code system some of which may not actually be usable in CDA.),(Exclusion Criteria: NA) This value set was imported on 11/20/2025 with a version of Latest. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.15913/expansion			
Code	Code System	Code System OID	Print Name
A	HL7EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Artist/Stage
ABC	HL7EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Alphabetic
ASGN	HL7EntityNameUse	urn:oid:2.16.840.1.113883.5.45	assigned
C	HL7EntityNameUse	urn:oid:2.16.840.1.113883.5.45	License
I	HL7EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Indigenous/Tribal
IDE	HL7EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Ideographic
L	HL7EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Legal
OR	HL7EntityNameUse	urn:oid:2.16.840.1.113883.5.45	official registry
P	HL7EntityNameUse	urn:oid:2.16.840.1.113883.5.45	pseudonym
PHON	HL7EntityNameUse	urn:oid:2.16.840.1.113883.5.45	phonetic
...			

Table 95: EntityPersonNamePartQualifier

Value Set: EntityPersonNamePartQualifier urn:oid:2.16.840.1.113883.11.20.9.26 (Clinical Focus: Classification of a name part by source or purpose),(Data Element Scope: A set of codes that define specific subcategories of a name part, providing additional detail beyond the primary name part type.),(Inclusion Criteria: Include codes from http://terminology.hl7.org/CodeSystem/v3-EntityNamePartQualifier where concept is-a _OrganizationNamePartQualifier),(Exclusion Criteria: Code in the code system that are not children of i_OrganizationNamePartQualifier) This value set was imported on 11/20/2025 with a version of Latest. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.26/expansion			
Code	Code System	Code System OID	Print Name
AC	HL7EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	academic
AD	HL7EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	adopted
BR	HL7EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	birth
CL	HL7EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	callme
IN	HL7EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	initial
NB	HL7EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	nobility
PR	HL7EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	professional
SP	HL7EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	spouse
TITLE	HL7EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	title
VV	HL7EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	voorvoegsel

Figure 56: US Realm Patient Name Example

<pre> <name use="L"> <prefix qualifier="TITLE">Rep</prefix> <given>Evelyn</given> <given qualifier="CL">Eve</given> <family qualifier="BR">Everywoman</family> <suffix qualifier="AC">J.D.</suffix> </name> </pre>
--

4.7 US Realm Person Name (PN.US.FIELDDED)

[name: identifier urn:oid:2.16.840.1.113883.10.20.22.5.1.1 (open)]

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DSTU R1.1

Table 96: US Realm Person Name (PN.US.FIELDDED) Contexts

Contained By:	Contains:
US Realm Header (V4) (optional) Reportability Response Document (RR)(V2) (optional) Reportability Response Document (RR)(V2) (required)	

The US Realm Clinical Document Person Name datatype flavor is a set of reusable constraints that can be used for Persons.

Table 97: US Realm Person Name (PN.US.FIELDDED) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
name (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)					
name	1..1	SHALL		81-9368	

- 1. **SHALL** contain exactly one [1..1] **name** (CONF:81-9368).
 - a. The content of name **SHALL** be either a conformant Patient Name (PTN.US.FIELDDED), or a string (CONF:81-9371).
 - b. The string **SHALL NOT** contain name parts (CONF:81-9372).

5 TEMPLATE IDS IN THIS GUIDE

Table 98: Template List

Template Title	Template Type	templateId
Reportability Response Document (RR)(V2)	document	urn:hl7ii:2.16.840.1.113883.10.20.15.2.1.2:2025-12-01
US Realm Header (V4)	document	urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2023-05-01
Electronic Initial Case Report Section	section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.3:2017-04-01
Reportability Response Subject Section	section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.1:2017-04-01
Reportability Response Summary Section	section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.2:2017-04-01
Determination of Reportability	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.19:2017-04-01
Determination of Reportability Reason	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.26:2017-04-01
Determination of Reportability Rule	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.27:2017-04-01
eICR External Document Reference	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.10:2017-04-01
eICR Processing Status	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.29:2017-04-01
eICR Processing Status Reason	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.21:2017-04-01
eICR Processing Status Reason Detail	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.32:2017-04-01
eICR Validation Output	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.33:2017-04-01
External Document Reference	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09
External Reference	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01
External Resources	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01
Instruction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09
Manually Initiated eICR	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.22:2017-04-01
Received eICR Information	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.9:2017-04-01
Relevant Reportable Condition Observation	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.12:2017-04-01
Reportability Information Organizer	entry	urn:hl7ii:2.16.840.1.113883.10.20.

Template Title	Template Type	templateId
		15.2.3.13:2017-04-01
Reportability Response Coded Information Organizer	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.34:2017-04-01
Reportability Response Priority	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.30:2017-04-01
Reportability Response Subject	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.7:2017-04-01
Reportability Response Summary	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.8:2017-04-01
Reporting Timeframe	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.14:2017-04-01
Responsible Agency	unspecified	urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.2:2017-04-01
Routing Entity	unspecified	urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.1:2017-04-01
Rules Authoring Agency	unspecified	urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.3:2017-04-01
US Realm Address (AD.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.2
US Realm Date and Time (DTM.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.4
US Realm Patient Name (PTN.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.1
US Realm Person Name (PN.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.1.1

Table 99: Template Containments

Template Title	Template Type	templateId
Reportability Response Document (RR)(V2)	document	urn:hl7ii:2.16.840.1.113883.10.20.15.2.1.2:2025-12-01
US Realm Address (AD.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.2
US Realm Address (AD.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.2
US Realm Person Name (PN.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.1.1
US Realm Person Name (PN.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.1.1
US Realm Date and Time (DTM.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.4
Reportability Response Subject Section	section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.1:2017-04-01
Reportability Response Subject	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.7:2017-04-01
Reportability Response Summary Section	section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.2:2017-04-01
Reportability Response Coded Information Organizer	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.34:2017-04-01
Relevant Reportable Condition Observation	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.12:2017-04-01
Reportability Information Organizer	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.13:2017-04-01
Reporting Timeframe	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.14:2017-04-01
Determination of Reportability	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.19:2017-04-01
Determination of Reportability Reason	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.26:2017-04-01
Determination of Reportability Rule	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.27:2017-04-01
Routing Entity	unspecified	urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.1:2017-04-01
Responsible Agency	unspecified	urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.2:2017-04-01
Rules Authoring Agency	unspecified	urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.3:2017-04-01
External Resources	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01
External Reference	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01
External Resources	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01

Template Title	Template Type	templateId
External Reference	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01
Reportability Response Summary	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.8:2017-04-01
Reportability Response Priority	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.30:2017-04-01
Electronic Initial Case Report Section	section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.3:2017-04-01
Received eICR Information	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.9:2017-04-01
eICR External Document Reference	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.10:2017-04-01
Manually Initiated eICR	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.22:2017-04-01
eICR Processing Status	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.29:2017-04-01
eICR Processing Status Reason	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.21:2017-04-01
eICR Processing Status Reason Detail	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.32:2017-04-01
eICR Validation Output	entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.33:2017-04-01
US Realm Header (V4)	document	urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2023-05-01
US Realm Patient Name (PTN.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.1
US Realm Address (AD.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.2
US Realm Address (AD.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.2
US Realm Person Name (PN.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.1.1
US Realm Date and Time (DTM.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.4
US Realm Date and Time (DTM.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.4
External Document Reference	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09
Instruction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09

6 VALUE SETS IN THIS GUIDE

Table 100: Value Sets

Name	OID	URL
ActEncounterCode	urn:oid:2.16.840.1.113883.1.11.13955	http://terminology.hl7.org/ValueSet/v3-ActEncounterCode
Administrative Gender (HL7 V3)	urn:oid:2.16.840.1.113883.1.11.1	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.1/expansion
Care Team Member Function	urn:oid:2.16.840.1.113762.1.4.1099.30	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113762.1.4.1099.30/expansion
Country	urn:oid:2.16.840.1.113883.3.88.12.80.63	http://hl7.org/fhir/ValueSet/iso3166-1-2
Detailed Ethnicity	urn:oid:2.16.840.1.114222.4.11.877	https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.877/expansion
Determination of Reportability (eCR)	urn:oid:2.16.840.1.113883.10.20.15.2.5.3	https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.3
eICR Processing Status (eCR)	urn:oid:2.16.840.1.113883.10.20.15.2.5.8	https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.8
eICR Processing Status Reason (eCR)	urn:oid:2.16.840.1.113883.10.20.15.2.5.7	https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.7
eICR Processing Status Reason Detail Type (eCR)	urn:oid:2.16.840.1.113883.10.20.15.2.5.10	https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.10
EntityNameUse	urn:oid:2.16.840.1.113883.1.11.15913	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.15913/expansion
EntityPersonNamePartQualifier	urn:oid:2.16.840.1.113883.11.20.9.26	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.26/expansion
Ethnicity	urn:oid:2.16.840.1.114222.4.11.837	https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.837/expansion
External Resource Type (eCR)	urn:oid:2.16.840.1.113883.10.20.15.2.5.4	https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.4
Healthcare Provider Taxonomy	urn:oid:2.16.840.1.114222.4.11.1066	https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.1066/expansion
HL7 BasicConfidentialityKind	urn:oid:2.16.840.1.113883.1.11.16926	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.16926/expansion

Name	OID	URL
INDRoleclassCodes	urn:oid:2.16.840.1.113883.11.20.9.33	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.33/expansion
Language	urn:oid:2.16.840.1.113883.1.11.11526	http://www.loc.gov/standards/iso639-2/php/code_list.php
LanguageAbilityMode	urn:oid:2.16.840.1.113883.1.11.12249	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.12249/expansion
LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.1.11.12199	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.12199/expansion
Location Relevance (eCR)	urn:oid:2.16.840.1.113883.10.20.15.2.5.6	https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.6
Marital Status	urn:oid:2.16.840.1.113883.1.11.12212	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.12212/expansion
Patient Education	urn:oid:2.16.840.1.113883.11.20.9.34	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.34/expansion
Personal And Legal Relationship Role Type	urn:oid:2.16.840.1.113883.11.20.12.1	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.12.1/expansion
PostalAddressUse	urn:oid:2.16.840.1.113883.1.11.10637	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.10637/expansion
PostalCode	urn:oid:2.16.840.1.113883.3.88.12.80.2	https://postalpro.usps.com/ZIP_Locale_Detail
Race Category Excluding Nulls	urn:oid:2.16.840.1.113883.3.2074.1.1.3	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.3.2074.1.1.3/expansion
Race Value Set	urn:oid:2.16.840.1.113883.1.11.14914	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.14914/expansion
Religious Affiliation	urn:oid:2.16.840.1.113883.1.11.19185	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.19185/expansion
Reportability Priority (eCR)	urn:oid:2.16.840.1.113883.10.20.15.2.5.5	https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.10.20.15.2.5.5
ServiceDeliveryLocationRoleType	urn:oid:2.16.840.1.113883.1.11.17660	http://terminology.hl7.org/ValueSet/v3-ServiceDeliveryLocationRoleType
StateValueSet	urn:oid:2.16.840.1.113883.3.88.12.80.1	https://www.bls.gov/respondents/mwr/electronic-data-interchange/appendix-d-usps-state-abbreviations-and-fips-codes.htm
Telecom Use (US Realm Header)	urn:oid:2.16.840.1.113883.11.20.9	https://vsac.nlm.nih.gov/valueset

Name	OID	URL
	.20	/2.16.840.1.113883.11.20.9.20/expansion
x_ServiceEventPerformer	urn:oid:2.16.840.1.113883.1.11.19601	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.19601/expansion

7 CODE SYSTEMS IN THIS GUIDE

Table 101: Code Systems

Name	OID
Administrative Gender	urn:oid:2.16.840.1.113883.5.1
CDC Vaccine Code (CVX)	urn:oid:2.16.840.1.113883.12.292
Country (ISO 3166-1)	urn:oid:1.0.3166.1
CPT	urn:oid:2.16.840.1.113883.6.12
DCM	urn:oid:1.2.840.10008.2.16.4
FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92
Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101
HL7ActClass	urn:oid:2.16.840.1.113883.5.6
HL7ActionCode	urn:oid:2.16.840.1.113883.5.4
HL7ActMood	urn:oid:2.16.840.1.113883.5.1001
HL7ActPriority	urn:oid:2.16.840.1.113883.5.7
HL7ActReason	urn:oid:2.16.840.1.113883.5.8
HL7ActRelationshipType	urn:oid:2.16.840.1.113883.5.1002
HL7ActStatus	urn:oid:2.16.840.1.113883.5.14
HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119
HL7Confidentiality	urn:oid:2.16.840.1.113883.5.25
HL7EntityClass	urn:oid:2.16.840.1.113883.5.41
HL7EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43
HL7EntityNameUse	urn:oid:2.16.840.1.113883.5.45
HL7LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60
HL7LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.5.61
HL7MaritalStatus	urn:oid:2.16.840.1.113883.5.2
HL7NullFlavor	urn:oid:2.16.840.1.113883.5.1008
HL7ObservationValue	urn:oid:2.16.840.1.113883.5.1063
HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88
HL7ParticipationSignature	urn:oid:2.16.840.1.113883.5.89
HL7ParticipationType	urn:oid:2.16.840.1.113883.5.90
HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076
HL7RoleClass	urn:oid:2.16.840.1.113883.5.110
HL7RoleCode	urn:oid:2.16.840.1.113883.5.111
HSLOC	urn:oid:2.16.840.1.113883.6.259
ICD-10-CM	urn:oid:2.16.840.1.113883.6.90
Insurance Type Code	urn:oid:2.16.840.1.113883.3.88.12.3221.5.2
International Standard Classification of Occupations (ISCO)-08	urn:oid:2.16.840.1.113883.2.9.6.2.7

Name	OID
Language	urn:oid:2.16.840.1.113883.6.121
LOINC	urn:oid:2.16.840.1.113883.6.1
Media Type	urn:oid:2.16.840.1.113883.5.79
MedicationDispense Status Codes	urn:oid:2.16.840.1.113883.4.642.4.1313
NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26.1.1
NDFRT	urn:oid:2.16.840.1.113883.3.26.1.5
NUBC UB-04 Patient Discharge Status code set	urn:oid:2.16.840.1.113883.6.301.5
ObservationInterpretation	urn:oid:2.16.840.1.113883.5.83
PH_OccupationalDataForHealth_ODH	urn:oid:2.16.840.1.114222.4.5.327
PHIN Questions	urn:oid:2.16.840.1.114222.4.5.232
PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274
ProvenanceParticipantType	urn:oid:2.16.840.1.113883.4.642.4.1131
Provider Role (HL7)	urn:oid:2.16.840.1.113883.3.88.12.3221.4
Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238
RxNorm	urn:oid:2.16.840.1.113883.6.88
SNOMED CT	urn:oid:2.16.840.1.113883.6.96
Source of Payment Typology (PHDSC)	urn:oid:2.16.840.1.113883.3.221.5
TribalEntityUS	urn:oid:2.16.840.1.113883.5.140
UCUM	urn:oid:2.16.840.1.113883.6.8
UCUM	urn:oid:1.3.6.1.4.1.12009.10.3.1
USPostalCodes	urn:oid:2.16.840.1.113883.6.231