

Figure 44: nonXMLBody Example with Compressed Content

```
<component>
  <nonXMLBody>
    <text mediaType="text/rtf" representation="B64"
compression="DF">dhUhkasd437hbjfQS7...</text>
  </nonXMLBody>
</component>
```

1.1.24 US Realm Header for Patient Generated Document (V2)

[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.29.1:2015-08-01 (open)]

This template is designed to be used in conjunction with the US Realm Header (V2). It includes additional conformances which further constrain the US Realm Header (V2).

The Patient Generated Document Header template is not a separate document type. The document body may contain any structured or unstructured content from C-CDA.

Table 59: US Realm Header for Patient Generated Document (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.29.1:2015-08-01)					
templateId	1..1	SHALL		1198-28458	
@root	1..1	SHALL		1198-28459	2.16.840.1.113883.10.20.29.1
@extension	1..1	SHALL		1198-32917	2015-08-01
recordTarget	1..1	SHALL		1198-28460	
patientRole	1..1	SHALL		1198-28461	
id	1..*	SHALL		1198-28462	
patient	1..1	SHALL		1198-28465	
guardian	0..*	MAY		1198-28469	
id	0..*	SHOULD		1198-28470	
code	0..1	SHOULD		1198-28473	urn:oid:2.16.840.1.113883.11.20.12.1 (Personal And Legal Relationship Role Type)
languageCommunication	0..*	SHOULD		1198-28474	
preferenceInd	0..1	MAY		1198-28475	

XPath	Card.	Verb	Data Type	CONF#	Value
providerOrganization	0..1	MAY		1198-28476	
author	1..*	SHALL		1198-28477	
assignedAuthor	1..1	SHALL		1198-28478	
id	1..*	SHALL		1198-28479	
code	0..1	SHOULD		1198-28481	
@code	1..1	SHALL		1198-28676	urn:oid:2.16.840.1.113883.11.20.12.1 (Personal And Legal Relationship Role Type)
dataEnterer	0..1	MAY		1198-28678	
assignedEntity	1..1	SHALL		1198-28679	
code	0..1	MAY		1198-28680	urn:oid:2.16.840.1.113883.11.20.12.1 (Personal And Legal Relationship Role Type)
informant	0..*	MAY		1198-28681	
relatedEntity	1..1	SHALL		1198-28682	
code	0..1	MAY		1198-28683	
@code	0..1	SHOULD		1198-28684	urn:oid:2.16.840.1.113883.11.20.12.1 (Personal And Legal Relationship Role Type)
custodian	1..1	SHALL		1198-28685	
assignedCustodian	1..1	SHALL		1198-28686	
representedCustodianOrganization	1..1	SHALL		1198-28687	
id	1..*	SHALL		1198-28688	
informationRecipient	0..*	MAY		1198-28690	
intendedRecipient	1..1	SHALL		1198-28691	
id	0..*	SHOULD		1198-28692	
@root	0..1	SHOULD		1198-28693	

XPath	Card.	Verb	Data Type	CONF#	Value
legalAuthenticator	0..1	MAY		1198-28694	
assignedEntity	1..1	SHALL		1198-28695	
id	1..*	SHALL		1198-28696	
code	0..1	MAY		1198-28697	
@code	0..1	MAY		1198-28698	urn:oid:2.16.840.1.113883.11.20.12.1 (Personal And Legal Relationship Role Type)
authenticator	0..*	MAY		1198-28699	
assignedEntity	1..1	SHALL		1198-28700	
id	1..*	SHALL		1198-28701	
code	0..1	SHOULD		1198-28702	urn:oid:2.16.840.1.113883.11.20.12.1 (Personal And Legal Relationship Role Type)
participant	0..*	MAY		1198-28703	
@typeCode	1..1	SHALL		1198-28704	
associatedEntity	1..1	SHALL		1198-28705	
code	0..1	SHOULD		1198-28706	urn:oid:2.16.840.1.113883.11.20.12.1 (Personal And Legal Relationship Role Type)
inFulfillmentOf	0..*	MAY		1198-28707	
order	1..1	SHALL		1198-28708	
id	1..*	SHALL		1198-28709	
documentationOf	0..*	MAY		1198-28710	
serviceEvent	1..1	SHALL		1198-28711	
code	0..1	SHOULD		1198-28712	
performer	0..*	SHOULD		1198-28713	
functionCode	0..1	MAY		1198-28714	urn:oid:2.16.840.1.113883.1.1.1.10267 (ParticipationFunction)

XPath	Card.	Verb	Data Type	CONF#	Value
assignedEntity	1..1	SHALL		1198-28715	
id	1..*	SHALL		1198-28716	
code	0..1	MAY		1198-28718	urn:oid:2.16.840.1.113883.11.20.12.1 (Personal And Legal Relationship Role Type)

1. Conforms to [US Realm Header \(V3\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2015-08-01).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:1198-28458) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.29.1" (CONF:1198-28459).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2015-08-01" (CONF:1198-32917).
 - c. When asserting this templateId, all C-CDA 2.1 section and entry templates that had a previous version in C-CDA R1.1 **SHALL** include both the C-CDA 2.1 templateId and the C-CDA R1.1 templateId root without an extension. See C-CDA R2.1 Volume 1 - Design Considerations for additional detail (CONF:1198-32945).

The recordTarget records the patient whose health information is described by the clinical document; each recordTarget must contain at least one patientRole element.

If the document receiver is interested in setting up a translator for the encounter with the patient, the receiver of the document will have to infer the need for a translator, based upon the language skills identified for the patient, the patient's language of preference and the predominant language used by the organization receiving the CDA.

HL7 Vocabulary simply describes guardian as a relationship to a ward. This need not be a formal legal relationship. When a guardian relationship exists for the patient, it can be represented, regardless of who is present at the time the document is generated. This need not be a formal legal relationship. A child's parent can be represented in the guardian role. In this case, the guardian/code element would encode the personal relationship of "mother" for the child's mom or "father" for the child's dad. An elderly person's child can be represented in the guardian role. In this case, the guardian/code element would encode the personal relationship of "daughter" or "son", or if a legal relationship existed, the relationship of "legal guardian" could be encoded.

3. **SHALL** contain exactly one [1..1] **recordTarget** (CONF:1198-28460).
 - a. This recordTarget **SHALL** contain exactly one [1..1] **patientRole** (CONF:1198-28461).
 - i. This patientRole **SHALL** contain at least one [1..*] **id** (CONF:1198-28462).
 - ii. This patientRole **SHALL** contain exactly one [1..1] **patient** (CONF:1198-28465).
 1. This patient **MAY** contain zero or more [0..*] **guardian** (CONF:1198-28469).

- a. The guardian, if present, **SHOULD** contain zero or more [0..*] **id** (CONF:1198-28470).
 - b. 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:1198-28473).
2. This patient **SHOULD** contain zero or more [0..*] **languageCommunication** (CONF:1198-28474).
 - a. The languageCommunication, if present, **MAY** contain zero or one [0..1] **preferenceInd** (CONF:1198-28475).
 Note: Indicates a preference for information about care delivery and treatments be communicated (or translated if needed) into this language.

If more than one languageCommunication is present, only one languageCommunication element **SHALL** have a preferenceInd with a value of 1.

If present, this organization represents the provider organization where the person is claiming to be a patient.

- iii. This patientRole **MAY** contain zero or one [0..1] **providerOrganization** (CONF:1198-28476).

Note: If present, this organization represents the provider organization where the person is claiming to be a patient.

The author element represents the creator of the clinical document. The author may be a device, or a person. The person is the patient or the patient's advocate.

4. **SHALL** contain at least one [1..*] **author** (CONF:1198-28477).
 - a. Such authors **SHALL** contain exactly one [1..1] **assignedAuthor** (CONF:1198-28478).
 - i. This assignedAuthor **SHALL** contain at least one [1..*] **id** (CONF:1198-28479).

When the author is a person who is not acting in the role of a clinician, this code encodes the personal or legal relationship between author and the patient.

- ii. This assignedAuthor **SHOULD** contain zero or one [0..1] **code** (CONF:1198-28481).
 1. The code, if present, **SHALL** contain exactly one [1..1] **@code**, which **SHOULD** be selected from ValueSet [Personal And Legal Relationship Role Type](#) urn:oid:2.16.840.1.113883.11.20.12.1 **DYNAMIC** (CONF:1198-28676).

The dataEnterer element represents the person who transferred the content, written or dictated by someone else, into the clinical document. The guiding rule of thumb is that an author provides the content found within the header or body of the document, subject to their own interpretation, and the dataEnterer adds that information to the electronic system. In other

words, a dataEnterer transfers information from one source to another (e.g., transcription from paper form to electronic system). If the dataEnterer is missing, this role is assumed to be played by the author.

5. **MAY** contain zero or one [0..1] **dataEnterer** (CONF:1198-28678).
 - a. The dataEnterer, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1198-28679).
 - i. This assignedEntity **MAY** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet [Personal And Legal Relationship Role Type](#) urn:oid:2.16.840.1.113883.11.20.12.1 **DYNAMIC** (CONF:1198-28680).

The informant element describes the source of the information in a medical document.

Assigned health care providers may be a source of information when a document is created. (e.g., a nurse's aide who provides information about a recent significant health care event that occurred within an acute care facility.) In these cases, the assignedEntity element is used.

When the informant is a personal relation, that informant is represented in the relatedEntity element, even if the personal relation is a medical professional. The code element of the relatedEntity describes the relationship between the informant and the patient. The relationship between the informant and the patient needs to be described to help the receiver of the clinical document understand the information in the document.

Each informant can be either an assignedEntity (a clinician serving the patient) OR a relatedEntity (a person with a personal or legal relationship with the patient). The constraints here apply to relatedEntity.

6. **MAY** contain zero or more [0..*] **informant** (CONF:1198-28681) such that it
 - a. **SHALL** contain exactly one [1..1] **relatedEntity** (CONF:1198-28682).
 - i. This relatedEntity **MAY** contain zero or one [0..1] **code** (CONF:1198-28683).
 1. The code, if present, **SHOULD** contain zero or one [0..1] **@code**, which **SHOULD** be selected from ValueSet [Personal And Legal Relationship Role Type](#) urn:oid:2.16.840.1.113883.11.20.12.1 **DYNAMIC** (CONF:1198-28684).

The custodian element represents the organization or person that is in charge of maintaining the document. The custodian is the steward that is entrusted with the care of the document. Every CDA document has exactly one custodian. The custodian participation satisfies the CDA definition of Stewardship. Because CDA is an exchange standard and may not represent the original form of the authenticated document (e.g., CDA could include scanned copy of original), 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. Also, the custodian may be the patient or an organization acting on behalf of the patient, such as a PHR organization.

7. **SHALL** contain exactly one [1..1] **custodian** (CONF:1198-28685).
 - a. This custodian **SHALL** contain exactly one [1..1] **assignedCustodian** (CONF:1198-28686).

The representedCustodianOrganization may be the person when the document is not maintained by an organization.

- i. This assignedCustodian **SHALL** contain exactly one [1..1] **representedCustodianOrganization** (CONF:1198-28687).

The combined @root and @extension attributes record the custodian organization's identity in a secure, trusted, and unique way.

1. This representedCustodianOrganization **SHALL** contain at least one [1..*] **id** (CONF:1198-28688).

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

8. **MAY** contain zero or more [0..*] **informationRecipient** (CONF:1198-28690).
 - a. The informationRecipient, if present, **SHALL** contain exactly one [1..1] **intendedRecipient** (CONF:1198-28691).

The combined @root and @extension attributes to record the information recipient's identity in a secure, trusted, and unique way.

- i. This intendedRecipient **SHOULD** contain zero or more [0..*] **id** (CONF:1198-28692).

For a provider, the id/@root = "2.16.840.1.113883.4.6" indicates the National Provider Identifier where id/@extension is the NPI number for the provider.

The ids **MAY** reference the id of a person or organization entity specified elsewhere in the document.

1. The id, if present, **SHOULD** contain zero or one [0..1] **@root** (CONF:1198-28693).

In a patient authored document, the legalAuthenticator identifies the single person legally responsible for the document and must be present if the document has been legally authenticated. (Note that per the following section, there may also be one or more document authenticators.)

Based on local practice, patient authored documents may be provided without legal authentication. This implies that a patient authored 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. All patient documents have the potential for legal authentication, given the appropriate legal authority.

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

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

9. **MAY** contain zero or one [0..1] **legalAuthenticator** (CONF:1198-28694).
 - a. The legalAuthenticator, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1198-28695).

The combined @root and @extension attributes to record the information recipient's identity in a secure, trusted, and unique way.

- i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1198-28696).
- ii. This assignedEntity **MAY** contain zero or one [0..1] **code** (CONF:1198-28697).
 - 1. The code, if present, **MAY** contain zero or one [0..1] **@code**, which **SHOULD** be selected from ValueSet [Personal And Legal Relationship Role Type](#) urn:oid:2.16.840.1.113883.11.20.12.1 **DYNAMIC** (CONF:1198-28698).

10. **MAY** contain zero or more [0..*] **authenticator** (CONF:1198-28699).

- a. The authenticator, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1198-28700).

The combined @root and @extension attributes to record the authenticator's identity in a secure, trusted, and unique way.

- i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1198-28701).
- ii. This assignedEntity **SHOULD** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet [Personal And Legal Relationship Role Type](#) urn:oid:2.16.840.1.113883.11.20.12.1 **DYNAMIC** (CONF:1198-28702).

The participant element identifies other supporting participants, including parents, relatives, caregivers, insurance policyholders, guarantors, and other participants 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)

11. **MAY** contain zero or more [0..*] **participant** (CONF:1198-28703).

Unless otherwise specified by the document specific header constraints, when participant/@typeCode is IND, associatedEntity/@classCode **SHALL** be selected from ValueSet 2.16.840.1.113883.11.20.9.33 INDRoleclassCodes **DYNAMIC**

- a. The participant, if present, **SHALL** contain exactly one [1..1] **@typeCode** (CONF:1198-28704).
- b. The participant, if present, **SHALL** contain exactly one [1..1] **associatedEntity** (CONF:1198-28705).
 - i. This associatedEntity **SHOULD** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet [Personal And Legal Relationship Role Type](#) urn:oid:2.16.840.1.113883.11.20.12.1 **DYNAMIC** (CONF:1198-28706).

12. **MAY** contain zero or more [0..*] **inFulfillmentOf** (CONF:1198-28707).

- a. The inFulfillmentOf, if present, **SHALL** contain exactly one [1..1] **order** (CONF:1198-28708).

A scheduled appointment or service event in a practice management system may be represented using this id element.

- i. This order **SHALL** contain at least one [1..*] **id** (CONF:1198-28709).

13. **MAY** contain zero or more [0..*] **documentationOf** (CONF:1198-28710).

- a. The documentationOf, if present, **SHALL** contain exactly one [1..1] **serviceEvent** (CONF:1198-28711).

The code should be selected from a value set established by the document-level template for a specific type of Patient Generated Document.

- i. This serviceEvent **SHOULD** contain zero or one [0..1] **code** (CONF:1198-28712).
- ii. This serviceEvent **SHOULD** contain zero or more [0..*] **performer** (CONF:1198-28713).

When indicating the performer was the primary care physician, implementers should indicate "PCP" as the functionCode

1. The performer, if present, **MAY** contain zero or one [0..1] **functionCode**, which **SHALL** be selected from ValueSet [ParticipationFunction](#) urn:oid:2.16.840.1.113883.1.11.10267 **DYNAMIC** (CONF:1198-28714).
2. The performer, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1198-28715).

The combined @root and @extension attributes record the performer's identity in a secure, trusted, and unique way.

- a. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1198-28716).

If the assignedEntity is an individual, the code SHOULD be selected from value set PersonalandLegalRelationshipRoleType value set

- b. This assignedEntity **MAY** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet [Personal And Legal Relationship Role Type](#) urn:oid:2.16.840.1.113883.11.20.12.1 **DYNAMIC** (CONF:1198-28718).

Table 60: ParticipationFunction

Value Set: ParticipationFunction urn:oid:2.16.840.1.113883.1.11.10267 (Clinical Focus: This code is used to specify the exact function an actor had in a service in all necessary detail. This domain may include local extensions (CWE).),(Data Element Scope:),(Inclusion Criteria:),(Exclusion Criteria:) This value set was imported on 5/27/2022 with a version of Latest. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.10267/expansion			
Code	Code System	Code System OID	Print Name
ADMPHYS	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	admitting physician
ANEST	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	anesthesist
ANRS	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	anesthesia nurse
ATTPHYS	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	attending physician
AUCG	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	caregiver information receiver
AUCOV	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	consent override
AUEMROV	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	emergency override
AULR	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	legitimate relationship information receiver
AUTM	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	care team information receiver
AUWA	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	work area information receiver
...			

Figure 45: Patient Generated Document 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>
        <id root="2.16.840.1.113883.4.1" extension="111-22-3333" />
        <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 46: Patient Generated Document author Example

```
<author>
  <time value="20121126145000-0500" />
  <assignedAuthor>
    <!-- Identifier based on the person's Direct Address which is a secure and trusted
mechanism for identifying
    a person discretely. The root of the id is the OID of the HISP Assigning Authority for
the Direct Address-->
      <id extension="adameveryman@direct.sampleHISP.com" root="2.16.123.123.12345.1234"
/>
      <!--
    The PGD Header Template includes further conformance constraints on the code element
to encode the personal or legal
    relationship of the author when they are person who is not acting in the role of a
clinician..
    -->
      <code code="ONESELF" displayName="Self" codeSystem="2.16.840.1.113883.5.111"
codeSystemName="HL7 Role code" />
      <addr use="HP">
        <!-- HP is "primary home" from codeSystem 2.16.840.1.113883.5.1119 -->
        <streetAddressLine>2222 Home Street</streetAddressLine>
        <city>Boston</city>
        <state>MA</state>
        <postalCode>02368</postalCode>
        <!-- US is "United States" from ISO 3166-1 Country Codes: 1.0.3166.1 -->
        <country>US</country>
      </addr>
      <!-- HP is "primary home" from HL7 AddressUse 2.16.840.1.113883.5.1119 -->
      <telecom value="tel:(555)555-2004" use="HP" />
      <assignedPerson>
        <name>
          <given>Adam</given>
          <family>Everyman</family>
        </name>
      </assignedPerson>
    </assignedAuthor>
  </author>
```

Figure 47: Patient Generated Document author device Example

```
<!-- The Author below documents the system used to create the Patient Generated Document.
In this scenario the Patient is using a fictitious PHR Service called
MyPersonalHealthRecord.com.
It is a service which consumers purchase to receive and create their electronic health
records.
It is not a Patient Portal that is tethered to some other EMR or medical insurance
records system.
The service is developed by a company call ACME PHR Solutions, Inc. -->
<author>
  <time value="20121126145000-0500" />
  <assignedAuthor>
    <id extension="777.11" root="2.16.840.1.113883.19" />
    <addr nullFlavor="NA" />
    <telecom nullFlavor="NA" />
    <assignedAuthoringDevice>
      <manufacturerModelName>ACME PHR</manufacturerModelName>
      <softwareName>MyPHR v1.0</softwareName>
    </assignedAuthoringDevice>
    <representedOrganization>
      <id extension="999" root="1.2.3.4.5.6.7.8.9.12345" />
      <name>ACME PHR Solutions, Inc.</name>
      <telecom use="WP" value="tel:123-123-12345" />
      <addr>
        <streetAddressLine>4 Future Way</streetAddressLine>
        <city>Provenance</city>
        <state>RI</state>
        <postalCode>02919</postalCode>
      </addr>
    </representedOrganization>
  </assignedAuthor>
</author>
```

Figure 48: Patient Generated Document dataEnterer Example

```
<dataEnterer>
  <assignedEntity>
    <!-- Identifier based on the person's Direct Address which is a secure and trusted
mechanism for identifying
      a person discretely. The root of the id is the OID of the HISP Assigning Authority for
the Direct Address-->
      <id extension="adameveryman@direct.sampleHISP.com" root="2.16.123.123.12345.1234"
/>
      <code code="ONESELF" displayName="Self" codeSystem="2.16.840.1.113883.5.111"
codeSystemName="HL7 Role code" />
      <addr use="HP">
        <!-- HP is "primary home" from codeSystem 2.16.840.1.113883.5.1119 -->
        <streetAddressLine>2222 Home Street</streetAddressLine>
        <city>Boston</city>
        <state>MA</state>
        <postalCode>02368</postalCode>
        <!-- US is "United States" from ISO 3166-1 Country Codes: 1.0.3166.1 -->
        <country>US</country>
      </addr>
      <!-- HP is "primary home" from HL7 AddressUse 2.16.840.1.113883.5.1119 -->
      <telecom value="tel:(555)555-2004" use="HP" />
      <assignedPerson>
        <name>
          <given>Adam</given>
          <family>Everyman</family>
        </name>
      </assignedPerson>
    </assignedEntity>
  </dataEnterer>
```

Figure 49: Patient Generated Document informant Example <informant>

```
<informant>
  <assignedEntity>
    <!-- id using HL7 example OID. -->
    <id extension="999.1" root="2.16.840.1.113883.19" />
    <code code="ONESELF" displayName="Self" codeSystem="2.16.840.1.113883.5.111"
codeSystemName="HL7 Role code" />
    <addr use="HP">
      <!-- HP is "primary home" from codeSystem 2.16.840.1.113883.5.1119 -->
      <streetAddressLine>2222 Home Street</streetAddressLine>
      <city>Boston</city>
      <state>MA</state>
      <postalCode>02368</postalCode>
      <!-- US is "United States" from ISO 3166-1 Country Codes: 1.0.3166.1 -->
      <country>US</country>
    </addr>
    <!-- HP is "primary home" from HL7 AddressUse 2.16.840.1.113883.5.1119 -->
    <telecom value="tel:(555)555-2004" use="HP" />
    <assignedPerson>
      <name>
        <given>Adam</given>
        <family>Everyman</family>
      </name>
    </assignedPerson>
  </assignedEntity>
</informant>
```


Figure 50: Patient Generated Document informant RelEnt Example

```
<informant>
  <!-- An Errata has been accepted to allow relatedEntity under Informant. #XXXX -->
  <relatedEntity classCode="IND">
    <!-- id using HL7 example OID. -->
    <id extension="999.17" root="2.16.840.1.113883.19" />
    <code code="SIS" displayName="Sister" codeSystem="2.16.840.1.113883.11.20.12.1"
codeSystemName="Personal And Legal Relationship Role Type" />
    <addr use="HP">
      <!-- HP is "primary home" from codeSystem 2.16.840.1.113883.5.1119 -->
      <streetAddressLine>2222 Home Street</streetAddressLine>
      <city>Boston</city>
      <state>MA</state>
      <postalCode>02368</postalCode>
      <!-- US is "United States" from ISO 3166-1 Country Codes: 1.0.3166.1 -->
      <country>US</country>
    </addr>
    <!-- HP is "primary home" from HL7 AddressUse 2.16.840.1.113883.5.1119 -->
    <telecom value="tel:(555)555-2004" use="HP" />
    <assignedPerson>
      <name>
        <given>Alice</given>
        <family>Everyman</family>
      </name>
    </assignedPerson>
  </relatedEntity>
</informant>
```

Figure 51: Patient Generated Document custodian Example

```
<custodian>
  <assignedCustodian>
    <representedCustodianOrganization>
      <!-- id using HL7 example OID. -->
      <id extension="999.3" root="2.16.840.1.113883.19" />
      <name>MyPersonalHealthRecord.Com</name>
      <telecom value="tel:(555)555-1212" use="WP" />
      <addr use="WP">
        <streetAddressLine>123 Boylston Street</streetAddressLine>
        <city>Blue Hill</city>
        <state>MA</state>
        <postalCode>02368</postalCode>
        <country>USA</country>
      </addr>
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>
```

Figure 52: Patient Generated Document informationRecipient

```
<!-- The document is intended for multiple recipients, Adam himself and his PCP physician.
-->
<informationRecipient>
  <intendedRecipient>
    <!-- Identifier based on the person's Direct Address which is a secure and trusted
    mechanism for identifying
    a person discretely. The root of the id is the OID of the HISP Assigning Authority for
    the Direct Address-->
    <id extension="adameveryman@direct.sampleHISP.com" root="2.16.123.123.12345.1234"
  />

    <informationRecipient>
      <name>
        <given>Adam</given>
        <family>Everyman</family>
      </name>
    </informationRecipient>
    <receivedOrganization>
      <!-- id using HL7 example OID. -->
      <id extension="999.3" root="2.16.840.1.113883.19" />
      <name>MyPersonalHealthRecord.Com</name>
    </receivedOrganization>
  </intendedRecipient>
</informationRecipient>
<informationRecipient>
  <intendedRecipient>
    <!-- Unique/Trusted id using HL7 example OID. -->
    <id extension="999.4" root="2.16.840.1.113883.19" />
    <!-- The physician's NPI number -->
    <id extension="1122334455" root="2.16.840.1.113883.4.6" />
    <!-- The physician's Direct Address -->
    <!-- Identifier based on the person's Direct Address which is a secure and trusted
    mechanism for identifying
    a person discretely. The root of the id is the OID of the HISP Assigning Authority for
    the Direct Address-->
    <id extension="DrP@direct.sampleHISP2.com" root="2.16.123.123.12345.4321" />
    <telecom use="WP" value="tel:(781)555-1212" />
    <telecom use="WP" value="mailto:DrP@direct.sampleHISP2.com" />
    <informationRecipient>
      <name>
        <prefix>Dr.</prefix>
        <given>Patricia</given>
        <family>Primary</family>
      </name>
    </informationRecipient>
    <receivedOrganization>
      <!-- Unique/Trusted id using HL7 example OID. -->
      <id extension="999.2" root="2.16.840.1.113883.19" />
      <!-- NPI for the organization -->
      <id extension="1234567890" root="2.16.840.1.113883.4.6" />
      <name>Good Health Internal Medicine</name>
      <telecom use="WP" value="tel:(781)555-1212" />
      <addr>
        <streetAddressLine>100 Health Drive</streetAddressLine>
        <city>Boston</city>
        <state>MA</state>
```

```

        <postalCode>02368</postalCode>
        <country>USA</country>
    </addr>
</receivedOrganization>
</intendedRecipient>
</informationRecipient>

```

Figure 53: Patient Generated Document legalAuthenticator Example

```

<legalAuthenticator>
  <time value="20121126145000-0500" />
  <signatureCode code="S" />
  <assignedEntity>
    <!-- Identifier based on the person's Direct Address which is a secure and trusted
mechanism for identifying
a person discretely. The root of the id is the OID of the HISP Assigning Authority for
the Direct Address-->
    <id extension="adameveryman@direct.sampleHISP.com" root="2.16.123.123.12345.1234"
/>

    <addr use="HP">
      <!-- HP is "primary home" from codeSystem 2.16.840.1.113883.5.1119 -->
      <streetAddressLine>2222 Home Street</streetAddressLine>
      <city>Boston</city>
      <state>MA</state>
      <postalCode>02368</postalCode>
      <!-- US is "United States" from ISO 3166-1 Country Codes: 1.0.3166.1 -->
      <country>US</country>
    </addr>
    <!-- HP is "primary home" from HL7 AddressUse 2.16.840.1.113883.5.1119 -->
    <telecom value="tel:(555)555-2004" use="HP" />
    <assignedPerson>
      <name>
        <given>Adam</given>
        <family>Everyman</family>
      </name>
    </assignedPerson>
  </assignedEntity>
</legalAuthenticator>

```

Figure 54: Patient Generated Document authenticator Example

```
<authenticator>
  <time value="20121126145000-0500" />
  <signatureCode code="S" />
  <assignedEntity>
    <!-- Identifier based on the person's Direct Address which is a secure and trusted
mechanism for identifying
      a person discretely. The root of the id is the OID of the HISP Assigning Authority for
the Direct Address-->
    <id extension="adameveryman@direct.sampleHISP.com" root="2.16.123.123.12345.1234"
/>
    <addr use="HP">
      <!-- HP is "primary home" from codeSystem 2.16.840.1.113883.5.1119 -->
      <streetAddressLine>2222 Home Street</streetAddressLine>
      <city>Boston</city>
      <state>MA</state>
      <postalCode>02368</postalCode>
      <!-- US is "United States" from ISO 3166-1 Country Codes: 1.0.3166.1 -->
      <country>US</country>
    </addr>
    <!-- HP is "primary home" from HL7 AddressUse 2.16.840.1.113883.5.1119 -->
    <telecom value="tel:(555)555-2004" use="HP" />
    <assignedPerson>
      <name>
        <given>Adam</given>
        <family>Everyman</family>
      </name>
    </assignedPerson>
  </assignedEntity>
</authenticator>
```

Figure 55: Patient Generated Document participant Example

```
<participant typeCode="IND">
  <time xsi:type="IVL_TS">
    <low value="19551125" />
    <high value="20121126" />
  </time>
  <associatedEntity classCode="NOK">
    <code code="MTH" codeSystem="2.16.840.1.113883.5.111" />
    <addr>
      <streetAddressLine>17 Daws Rd.</streetAddressLine>
      <city>Blue Bell</city>
      <state>MA</state>
      <postalCode>02368</postalCode>
      <country>US</country>
    </addr>
    <telecom value="tel:(555)555-2006" use="WP" />
    <associatedPerson>
      <name>
        <prefix>Mrs.</prefix>
        <given>Martha</given>
        <family>Mum</family>
      </name>
    </associatedPerson>
  </associatedEntity>
</participant>
```

Figure 56: Patient Generated Document inFulfillmentOf Example

```
<inFulfillmentOf>
  <order>
    <!-- The root identifies the EMR system at the Good Health Internal Medicine
Practice -->
    <id extension="Ord12345" root="2.16.840.1.113883.4.6.1234567890.4" />
  </order>
</inFulfillmentOf>
```

2 SECTION-LEVEL TEMPLATES

This chapter contains the section-level templates referenced by one or more of the document types of this consolidated guide. These templates describe the purpose of each section and the section-level constraints.

Section-level templates are always included in a document. One and only one of each section type is allowed in a given document instance. Please see the document context tables to determine the sections that are contained in a given document type. Please see the conformance verb in the conformance statements to determine if it is required (SHALL), strongly recommended (SHOULD), or optional (MAY).

Each section-level template contains the following:

- Template metadata (e.g., templateId, etc.)
- Description and explanatory narrative
- LOINC section code
- Section title
- Requirements for a text element
- Entry-level template names and Ids for referenced templates (required and optional)

Narrative Text

The text element within the section stores the narrative to be rendered, as described in the CDA R2 specification, and is referred to as the CDA narrative block.

The content model of the CDA narrative block schema is handcrafted to meet requirements of human readability and rendering. The schema is registered as a MIME type (text/x-hl7-text+xml), which is the fixed media type for the text element.

As noted in the CDA R2 specification, the document originator is responsible for ensuring that the narrative block contains the complete, human readable, attested content of the section. Structured entries support computer processing and computation and are not a replacement for the attestable, human-readable content of the CDA narrative block. The special case of structured entries with an entry relationship of "DRIV" (is derived from) indicates to the receiving application that the source of the narrative block is the structured entries, and that the contents of the two are clinically equivalent. As for all CDA documents—even when a report consisting entirely of structured entries is transformed into CDA—the encoding application must ensure that the authenticated content (narrative plus multimedia) is a faithful and complete rendering of the clinical content of the structured source data. As a general guideline, a generated narrative block should include the same human readable content that would be available to users viewing that content in the originating system. Although content formatting in the narrative block need not be identical to that in the originating system, the narrative block should use elements from the CDA narrative block schema to provide sufficient formatting to support human readability when rendered according to the rules defined in Section Narrative Block (§ 4.3.5) of the CDA R2 specification.

By definition, a receiving application cannot assume that all clinical content in a section (i.e., in the narrative block and multimedia) is contained in the structured entries unless the entries in the section have an entry relationship of "DRIV".

Additional specification information for the CDA narrative block can be found in the CDA R2 specification in sections 1.2.1, 1.2.3, 1.3, 1.3.1, 1.3.2, 4.3.4.2, and 6.

2.1 Admission Diagnosis Section (V3)

[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.2.43:2015-08-01
(open)]

Table 61: Admission Diagnosis Section (V3) Contexts

Contained By:	Contains:
Discharge Summary (V3) (optional) Transfer Summary (V2) (optional)	Hospital Admission Diagnosis (V3) (optional)

This section contains a narrative description of the problems or diagnoses identified by the clinician at the time of the patient's admission. This section may contain a coded entry which represents the admitting diagnoses.

Table 62: Admission Diagnosis Section (V3) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.2.43:2015-08-01)					
templateId	1..1	SHALL		1198-9930	
@root	1..1	SHALL		1198-10391	2.16.840.1.113883.10.20.22.2.43
@extension	1..1	SHALL		1198-32563	2015-08-01
code	1..1	SHALL		1198-15479	
@code	1..1	SHALL		1198-15480	46241-6
@codeSystem	1..1	SHALL		1198-30865	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
translation	1..1	SHALL		1198-32749	
@code	1..1	SHALL		1198-32750	42347-5
@codeSystem	1..1	SHALL		1198-32751	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
title	1..1	SHALL		1198-9932	
text	1..1	SHALL		1198-9933	
entry	0..1	SHOULD		1198-9934	
act	1..1	SHALL		1198-15481	Hospital Admission Diagnosis (V3) (identifier: urn:hl7ii:2.16.840.1.113883.1