



Shared Medicines List

CDA Implementation Guide

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1.0.0	NaN NaN	<p>Initial public release.</p> <p>This version of the Shared Medicine List (SML) CDA implementation guide supports the exchange of medicines lists between healthcare providers, in an Australian healthcare context. Support is also provided for the more constrained Pharmacist Shared Medicines List (PSML). The logical models underpinning this release are implemented in FHIR Release 3 (STU).</p>

## Related Documents

<b>Name</b>	<b>Version/Release Date</b>
<a href="#">Shared Medicines List FHIR Implementation Guide</a>	Version 1.2.0 (Continuous Integration Build), Not yet published
<a href="#">Common - Clinical Document</a>	Version 1.5.2, Issued 28 February 2019
<a href="#">HL7 Clinical Document Architecture</a>	Release 2, January 2010
<a href="#">Pharmacist Shared Medicines List Scenarios and business requirements</a>	Version 2.0, Not yet published
<a href="#">Pharmacist Shared Medicines List Information Requirements</a>	Version 2.0, Not yet published
<a href="#">Pharmacist Shared Medicines List Conformance Profile</a>	Version 2.0.0, Not yet published
<a href="#">Representing Coding in CDA Documents Implementation Guidance</a>	Version 1.0, Issued 10 October 2011

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# 1 Introduction

This implementation guide is an [HL7 Clinical Document Architecture \[HL7CDAR2\]](#) specification to represent a shared medicines list, including Pharmacist Shared Medicines List (PSML). A shared medicines list is a list of medicines, at a point in time, that describes the medicines an individual is taking.

## 1.1 Document purpose and scope

The primary aim of this implementation guide is to take implementers step by step through mapping each element of a shared medicines list model ([Shared Medicines List FHIR Implementation Guide \[DH2020I\]](#)) to a corresponding CDA schema element. The resulting CDA document can be used for the electronic exchange of shared medicines list information between healthcare providers.

Whilst this implementation guide is defined to support a practitioner authored list of medicines, at the time of publication of this implementation guide it is expected that implementations will be of a PSML exchanged with the My Health Record.

This implementation guide is not to be used as a guide to presentation (or rendering) of the data. Beyond defining conformance requirements on CDA narratives it contains no information as to how the data described by it should be displayed and no such guidance should be inferred from this implementation guide.

Reference has been made to International and Australian Standards, and to Standards from Health Level Seven. The following standard is referred to in the text in such a way that some or all of its content constitutes requirements for the purposes of this specification: [HL7 Clinical Document Architecture \[HL7CDAR2\]](#).

This implementation guide is intended to align to HL7 FHIR and is the result of work undertaken in conjunction with HL7 Australia.

Wherever possible, material in this specification is based on existing standards. All efforts have been made to minimise divergence from the HL7 Australia profiles of HL7 International standards ([Australian Base Implementation Guide \(AU Base 1.1.1\) \[HL7AUF3B2\]](#)) to provide for system interoperability and compatibility with other profiles. Issues of an editorial nature in the source material (such as spelling or punctuation errors) are intentionally reproduced.

## 1.2 Context and use

A CDA implementation guide is part of a package of documents and files that support the development of software to exchange a type of clinical document, an end-product clinical specification package.

An Agency end-product clinical specification package supports software developers to create and interpret instances of a clinical document. The core of each package is a specification of the information content of instances of the clinical document.

Supplementary contents of the package include statements of scenarios for which the specification is appropriate, guidance on implementing the specification, and guidance on testing purported instances.

The contents may include:

- statement of requirements
- CDA implementation guide – a statement of constraints and custom extensions on [HL7 Clinical Document Architecture \[HL7CDAR2\]](#)
- FHIR implementation guide – a statement of constraints and custom extensions on [FHIR Release 3 \(STU\) \[HL7FHIR3\]](#)
- template package library – a set of Schematron schema to test conformance of CDA documents with the specification
- conformance profile – a statement of conformance requirements for exchanging documents within a particular scenario such as the My Health Record
- release notes

Clinical specification packages contain only files relevant to the particular clinical document. Specifications that are common to many clinical documents and should be considered part of the specification package, as directed by the relevant release note and conformance profile, are contained in the [Common - Clinical Document \[DH2019a\]](#).

## 1.3 How to read this document

This implementation guide contains descriptions of both constraints on HL7 CDA and, where necessary, custom extensions to the HL7 CDA, for the purposes of fulfilling the requirements for Australian implementations of shared medicines lists. These constraints are defined as a set of templates.

For implementers interested in a practitioner authored medicines list, such as PSML, the starting point for the CDA templates is [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#), which references the additional templates necessary to assert conformance for this implementation guide.

Chapters that may be of primary interest are organised as follow:

- [3 Conformance](#) - defines the conformance requirements applicable to a clinical document instance claiming conformance to a ClinicalDocument template defined in this implementation guide or any derived conformance profile.
- [4 Shared Medicines List Authored by Practitioner hierarchy](#) - hierarchical overview of the model for this document-level usage scenario.
- [5 CDA Header templates](#) - contains the CDA Header templates that apply across all of the supported usage scenarios in this implementation guide.
- [6 Document CDA templates](#) - defines the ClinicalDocument template for each logical model of a document-level usage scenario, e.g. Shared Medicines List Authored by Practitioner, in this implementation guide.
- [7 Section CDA templates](#) - defines the section templates referenced by a ClinicalDocument template in this implementation guide.
- [8 Participation CDA templates](#) - defines the templates for individuals and organisations, called participations, referenced by other templates in this implementation guide.
- [9 Entity CDA templates](#) - defines the templates for entities referenced by a participation template in this implementation guide.
- [10 Act CDA templates](#) - defines the templates for entry-level classes, called acts, referenced by other templates in this implementation guide.
- [Appendix B, Examples](#) - provides examples demonstrating a document-level usage model, e.g. Shared Medicines List Authored by Practitioner, and that conform to the CDA templates defined in this implementation guide.

## 1.4 Intended audience

This implementation guide is aimed at software development teams, architects, designers, clinicians and informatics researchers who are responsible for the delivery of clinical applications, infrastructure components and messaging interfaces, and also for those who wish to evaluate the clinical suitability of the Agency-endorsed specifications.

This implementation guide and related artefacts are technical in nature and the audience is expected to be familiar with the language of health data specifications and to have some familiarity with health information standards and specifications, such as [HL7 Clinical Document Architecture \[HL7CDAR2\]](#) and Standards Australia IT-014 documents. Definitions and examples are provided to clarify relevant terminology usage and intent.

## 1.5 Known issues

This section lists known issues with this specification at the time of publishing. We are working on solutions to these issues and encourage comments to help us develop these solutions.

Reference	Description
Source material errors	Material in this specification is based on existing standards and all efforts have been made to minimise divergence. Issues of an editorial nature in the source material (such as spelling or punctuation errors in an element description) are intentionally reproduced.
Shared Medicines List CDA implementation guide roadmap	<p>The objective of this specification is to provide guidance on the implementation in HL7 CDA Release 2 of shared medicines list documents (defined in HL7 FHIR).</p> <p>The current guide covers implementation in HL7 CDA Release 2 of practitioner authored shared medicines list model defined in FHIR Release 3 (STU) (<i>Shared Medicines List FHIR Implementation Guide [DH2020]</i>).</p> <p>The model is in transition to a FHIR Release 4 representation in collaboration with HL7 Australia. This move has normative implications to the CDA representation that are expected to result in major version incrementation to accommodate backwards incompatible changes. Widespread changes to terminology, including code system and value set identifiers, are expected to make up the bulk of the backwards incompatible changes. Where possible, FHIR Release 4 terminology has been pre-adopted in this implementation guide.</p> <p>Future releases of this implementation guide are also expected to provide support for additional usage scenarios including other authoring entities.</p>
Resolving URLs to Agency logical models (FHIR profiles) – not available	<p>Direct links to the Agency logical models (published as FHIR profiles) referenced throughout this implementation guide are not available. It is intended that logical models, e.g. "Patient with Mandatory Identifier", will be published at a resolvable address. Future releases of this implementation guide are expected to hyperlink all references to logical models.</p> <p>At this time the Agency logical models are only available via the <i>Shared Medicines List FHIR Implementation Guide [DH2020]</i>.</p>
Logical element name rendering inconsistency with FHIR implementation guide	<p>Logical element names in this specification are taken from the corresponding logical model (i.e. profiled FHIR resources published in <i>Shared Medicines List FHIR Implementation Guide [DH2020]</i>).</p> <p>There are some inconsistencies in the choice of text to render as the element name between this implementation guide and the FHIR implementation guide, e.g. "extension:informationRecipient" vs "information-recipient" or "attester:legalAttester" vs "attester (Legal Attester).</p> <p>Current rendered FHIR presentation selects from different attributes of an element to render as the text for that element name in a hierarchy depending on the constraints modelled in the structure. Effort have been made to minimise the divergence between the CDA and FHIR presentation while prioritising readability for the CDA implementation guide audience.</p>
PBS Medicine Item Codes	The PBS Medicines Item Codes value set, originating from the HL7 AU Base Medication profile, is a placeholder resource. Forthcoming work is expected to result in an authoritative value set published in the <i>National Clinical Terminology Service (NCTS)</i> with the following canonical URL: <a href="https://healthterminologies.gov.au/fhir/ValueSet/australian-pbs-item-1">https://healthterminologies.gov.au/fhir/ValueSet/australian-pbs-item-1</a> . Implementers are to make use of the value set served via the NCTS when available.

Reference	Description
GTIN for Medicines	No expansion is available for this value set using the associated code system published in the HL7 AU Base material. None of the concepts defined by the code system are included in the code system resource. Implementers are expected to have available an expansion that defines what codes are in the value sets to make use of this terminology.
MIMS Terminology	No expansion is available for this value set using the associated code system published in the HL7 AU Base material. None of the concepts defined by the code system are included in the code system resource. Implementers are expected to have available an expansion that defines what codes are in the value sets to make use of this terminology.
PractitionerRole > healthcareService	PractitionerRole > healthcareService is not currently mapped into CDA. Future releases of this implementation guide are expected to include a CDA template for the concept of a <a href="#">HealthcareService</a> .
AllergyIntolerance > onset[x]	onset[x] as a <a href="#">Range</a> is not currently mapped to CDA. Future releases of this implementation guide are expected to include one or more mappings to support a <a href="#">Range</a> .
Terminology publication	The following terminology resources are not yet available in NCTS: <ul style="list-style-type: none"><li>• 1469401000168104   Medicines packed in dose administration aid indicator  </li><li>• <a href="#">Indicator Of Medicines Packed In A Dose Administration Aid</a></li></ul>

## 2 Guidance

### 2.1 Clinical Document Architecture Release 2

A CDA document is an XML document built following the rules described in the CDA specification, which conforms to the HL7 CDA schema provided by HL7. The CDA document is based on the semantics provided by the HL7 V3 RIM, Data types and Vocabulary standards [\[HL7V3\]](#).

A CDA document has two main parts: the header and the body.

The CDA document header is consistent across all CDA documents, regardless of document type. The header identifies and classifies the document and provides information on authentication, the encounter, the patient, and the involved providers.

The body contains the clinical report. The body can be marked-up text (narrative, renderable text) or a combination of both marked-up text and structured data. The marked-up text can be transformed to XHTML and displayed to a human. The structured data allows machine processing of the information shown in the narrative section.

All clinical information is required to be marked up in CDA narratives. These narratives are CDA-defined hypertext, able to be rendered in web browsers with only a standard accompanying transformation. This transformation is produced and distributed by HL7.

The rendered narrative can stand alone as a source of authenticated information for consuming parties. Content from the CDA body is not to be omitted from the narrative.

Further information and conformance requirements on the CDA narrative is available in [CDA narrative conformance requirements](#).

The following references are recommended to gain a better understanding of CDA:

- [HL7 Clinical Document Architecture \[HL7CDAR2\]](#)
- [HL7 Version 3 Standard \[HL7V3\]](#)
- [CDA Examples \[RING2009\]](#)
- [CDA Validation Tools: infoway\\_release\\_2\\_2X\\_18.zip \[INFO2009\]](#)

## 2.2 Australian Digital Health Agency CDA extensions

As part of the CDA, standard extensions are allowed as follows:

Locally-defined markup may be used when local semantics have no corresponding representation in the CDA specification. CDA seeks to standardize the highest level of shared meaning while providing a clean and standard mechanism for tagging meaning that is not shared. In order to support local extensibility requirements, it is permitted to include additional XML elements and attributes that are not included in the CDA schema. These extensions should not change the meaning of any of the standard data items, and receivers must be able to safely ignore these elements. Document recipients must be able to faithfully render the CDA document while ignoring extensions.

Extensions may be included in the instance in a namespace other than the HL7v3 namespace, but must not be included within an element of type ED (e.g., <text> within <procedure>) since the contents of an ED datatype within the conformant document may be in a different namespace. Since all conformant content (outside of elements of type ED) is in the HL7 namespace, the sender can put any extension content into a foreign namespace (any namespace other than the HL7 namespace). Receiving systems must not report an error if such extensions are present. [HL7 Clinical Document Architecture \[HL7CDAR2\]](#)

A number of extensions to CDA have been defined in this implementation guide. To maintain consistency, the same development paradigm has been used as CDA.

These Australian Digital Health Agency CDA extensions have been added to the Australian Digital Health Agency CDA schema and are incorporated in the namespace <http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0> as shown in [Appendix B, Examples](#). Future versions of CDA extensions will be versioned as per the following example:

<http://ns.electronichealth.net.au/Ci/Cda/Extensions/4.0>

The Australian Digital Health Agency CDA schema therefore differs from the base HL7 CDA W3C XML schema (referred to in this implementation guide as the HL7 CDA schema). CDA documents which include extensions will fail to validate against the HL7 CDA schema – this is a known limitation.

A shared medicines list document that conforms to this specification will validate against the Australian Digital Health Agency CDA schema that accompanies this specification, and will validate against the HL7 CDA schema once the extensions have been removed. Note that merely passing schema validation does not ensure conformance. For more information, refer to [Base conformance requirements](#).

## 2.3 Conformance conventions

This implementation guide specifies the CDA templates for implementing a shared medicines list. A CDA template is a set of constraints, and where necessary, custom extensions to [HL7 Clinical Document Architecture \[HL7CDAR2\]](#), expressed using conformance conventions as defined in this implementation guide.

CDA templates are presented in a CDA mapping table (see [Mapping presentation and structure](#)) and indicated by the presence of a templateId (see [Template identifiers](#)).

## 2.3.1 Template identifiers

Template identifiers (`templateId`) are unique to each CDA template. When valued in an instance, the template identifier signals the assertion of conformance to a set of template-defined constraints. The root value of this element (e.g. `@root = "1.2.36.1.2001.1001.100.1002.226"`) provides a unique identifier for the template in question.

The following example demonstrates assertion of conformance to two CDA templates. This use of `templateId` indicates that the CDA instance not only conforms to the CDA specification, but in addition, conforms to two templates.

### Example 2.1. Use of `templateId` to assert conformance to two CDA templates

```
<ClinicalDocument classCode="DOCCLIN" moodCode="EVN" xmlns="urn:hl7-org:v3" xmlns:ex="urn:hl7-org/v3-example"
xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
  <!-- ClinicalDocument templateId -->
  <templateId root="1.2.36.1.2001.1001.102.101.100033"/>
  <!-- ClinicalDocument (Shared Medicines List Authored by Practitioner) templateId-->
  <templateId root="1.2.36.1.2001.1001.102.101.100065"/>
  ...
</ClinicalDocument>
```

## 2.3.2 Open and closed templates

A CDA template may be either an open template or a closed template:

- In an open template all of the features of the CDA R2 base specification [[HL7CDAR2](#)] are allowed except as constrained by explicitly specified constraints.
- In a closed template everything that is allowed must be explicitly specified and nothing further may be allowed.

The template context in this implementation guide is that of an open template unless otherwise stated. A closed template is indicated by the presence of the following constraint:

This template **SHALL** be a closed template

For example if a CDA template says nothing about the use of the `id` element:

- In an open template context this means that `id` is allowed as specified in the schema
- In a closed template context this means that no use of `id` is allowed

### Example 2.2. CDA mapping fragment - Interpreting an open template for logical elements

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements		Context: /			
Composition	A clinical document written by the nominated provider, which contains key pieces of information about an individual's health status and is useful to a wide range of providers in assessing individuals and delivering care.	0..*	<a href="#">Composition</a>	<b>ClinicalDocument</b>	In CDA the maximum occurrences of ClinicalDocument is 1. Although the model indicates that Composition is 0..*, in a CDA implementation this is limited to 0..1.  In addition to the template defined in this mapping table, ClinicalDocument <b>SHALL</b> conform to the template defined in ClinicalDocument.
				<b>ClinicalDocument/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>ClinicalDocument/templateId/@root="1.2.36.1.2001.1001.102.101.100020"</b>	
Composition > section (Event Overview)	Summary information concerning the event.	1..1	<a href="#">BackboneElement</a>	<b>ClinicalDocument/component/structuredBody/component[event]</b>	section <b>SHALL</b> conform to the template defined in section (Event Overview).
				<b>ClinicalDocument/component/structuredBody/component[event]/section</b>	
Composition > section (Allergies)	Information about allergies or intolerances identified or reported during this encounter. This may include statements that a patient does not have an allergy or category of allergies.	0..1	<a href="#">BackboneElement</a>	<b>ClinicalDocument/component/structuredBody/component[allergy]</b>	section <b>SHALL</b> conform to the template defined in section (Allergies).
				<b>ClinicalDocument/component/structuredBody/component[allergy]/section</b>	

The above template fragment states that each instance of the logical element Composition is represented as a ClinicalDocument that:

- explicitly requires an instance of templateId with a root that conforms to the fixed value constraint. Other attributes of templateId, e.g. assigningAuthorityName, are implicitly allowed.
- implicitly allows any other child attributes or elements of ClinicalDocument including other instances of templateId.
- explicitly requires exactly one component with an instance of section that conforms to section (Event Overview) [templateId: 1.2.36.1.2001.1001.102.101.100059]. Other component elements or attributes are implicitly allowed.
- explicitly allows at most one component with an instance of section that conforms to section (Allergies) [templateId: 1.2.36.1.2001.1001.102.101.100069]. Other component elements or attributes are implicitly allowed.
- implicitly allows one or more instances of a component with a section that does not conform to either section (Event Overview) [templateId: 1.2.36.1.2001.1001.102.101.100059] or section (Allergies) [templateId: 1.2.36.1.2001.1001.102.101.100069].

## 2.3.3 Fixed value constraint

A fixed value constraint is used to bind the value of an element or attribute to the exact string as presented between the quote marks (i.e. "FIXED\_VALUE"). This type of constraint is frequently used in a template to cast an element to a particular data type, or bind an element of type Coded Simple (CS) to a single code, or fix an attribute of a primitive type to a value.

A fixed value constraint in the "CDA schema element" column of a CDA mapping table will use [XPath like notation](#), for example:

```
/ClinicalDocument/confidentialityCode/@nullFlavor="N/A"
```

The use of "=" is to be interpreted as **SHALL**. The above example specifies a conformance requirement that the nullFlavor attribute **SHALL** be instantiated as "N/A".

A fixed value constraint in the "CDA constraints and comments" column of a CDA mapping table will make use of [Conformance verbs](#), for example:

```
displayName SHOULD be "Closing the Gap Copayment Eligibility Indicator"
```

## 2.3.4 XPath like notation

This implementation guide uses an XML Path Language (XPath) like notation to identify the CDA schema element(s) to which conformance requirements are applied.

This notation provides a mechanism that will be familiar to developers for identifying parts of an XML document. XPath syntax selects nodes from an XML document using a path containing the context of the node(s). The path is constructed from node names and attribute names (prefixed by a "@") and catenated with a "/" symbol. In addition an [index] is used to differentiate similar mappings e.g. participant[location] and participant[author].

The syntax is: {/name{[index]}}n

Where:

- {} indicates optional
- {}n means a section that may repeat
- [index] differentiates two similar mappings and indicates that a pattern 'like this' is to be applied (see [Interpreting cardinality in a CDA mapping table for logical elements](#))

An index after the name, such as component[admin\_obs] or entry[close\_gap] implies that there are expected to be two or more different component elements and entry elements instantiated in the ClinicalDocument instance. The indexes differentiate which CDA schema element is referenced in the path.

The value attribute of the value element from the below example could be referred to with the path /ClinicalDocument/component/structuredBody/component[admin\_obs]/section/entry[close\_gap]/observation/value/@value.

### Example 2.3. XPath like notation

```
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  ...
  <component>
    <structuredBody>
      <component>
        <component>
          <section>
            <templateId root="1.2.36.1.2001.1001.102.101.100000"/>
            <code code="102.16080" codeSystem="1.2.36.1.2001.1001.101" codeSystemName="NCTIS Data Components" displayName="Administrative Observations"/>
            <title>Administrative Observations</title>
            <entry>
              <observation classCode="OBS" moodCode="EVN">
                <code codeSystem="1.2.36.1.2001.1001.101" code="103.32011" displayName="Closing the Gap Copayment Eligibility Indicator" />
                <value xsi:type="BL" value="true"/>
              </observation>
            </entry>
          ...
        </section>
      </component>
    </structuredBody>
  </component>
</ClinicalDocument>
```

The corresponding entries in the CDA schema element column of a CDA mapping table for /ClinicalDocument/component/structuredBody/component[admin\_obs]/section/entry[close\_gap]/observation/value could be expressed using the XPath like notation as in the template fragment below.

**Example 2.4. CDA mapping fragment - XPath like notation**

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>				Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section	
Patient > <b>closing-the-gap-registration</b>	Indication for eligibility for the Closing the Gap program.	0..1	<a href="#">boolean</a>	<b>entry[close_gap]</b>	The containing component[admin_obs]/section <b>SHALL</b> conform to the template defined in <a href="#">component (Administrative Observations)</a> .
				<b>entry[close_gap]/observation</b>	
				<b>entry[close_gap]/observation/@classCode="OBS"</b>	
				<b>entry[close_gap]/observation/@moodCode="EVN"</b>	
				<b>entry[close_gap]/observation/code</b>	
				<b>entry[close_gap]/observation/code/@code="103.32011"</b>	<a href="#">NCTIS Data Components</a>
				<b>entry[close_gap]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"</b>	
				<b>entry[close_gap]/observation/code/@displayName</b>	displayName <b>SHOULD</b> be "Closing the Gap Copayment Eligibility Indicator".
				<b>entry[close_gap]/observation/value</b>	closing-the-gap-registration is "true" if eligible for Closing the Gap co-payment. value/@xsi:type <b>SHALL</b> be "BL".

## 2.3.5 Terminology binding

Vocabulary is specified in this implementation guide as:

- [Fixed value constraint](#) if only one permissible value is allowed, or
- Binding to a value set if more than one permissible value is allowed, e.g. [Medication Act Status HL7 v3 \(required\)](#)

Where used in this implementation guide, binding strengths are hyperlinked to their normative definition. An excerpt is provided in the below table for ease of use, where there are conflicts the target normative definition in [FHIR Release 3 \(STU\) \[HL7FHIR3\]](#) applies.

Binding strength	Description
required	To be conformant, codes in this element <b>SHALL</b> be from the specified value set.
extensible	To be conformant, codes in this element <b>SHALL</b> be from the specified value set if any of the codes within the value set can apply to the concept being communicated.
preferred	Instances are encouraged to draw from the specified codes for interoperability purposes but are not required to do so to be considered conformant.
example	Instances are not expected or even encouraged to draw from the specified value set. The value set merely provides examples of the types of concepts intended to be included.

## Terminology binding notation

A value set binding will be specified in the "CDA constraints and comments" column of a CDA mapping table as the title of the value set (hyperlinked to its definition) followed by identification of the [binding strength](#) (hyperlinked to its definition). For example:

[Encounter Act Status HL7 v3 \(required\)](#)

In simple terms the above required binding indicates that the CDA schema element **SHALL** be valued with one of the codes from that value set. However valuing of an element in CDA is always in the context of the data type and the code system specification (e.g. case sensitive or version required).

## Example of interpreting a required terminology binding on an element of type Coded Simple Value (CS)

A Coded Simple Value data type, or CS is defined in the HL7 V3 Data types standards [HL7V3]. It is the simplest form of coded data and consists only of a code, other attributes are prohibited. The code system and code system version are fixed by the context in which CS value occurs. Common instances typed as CS include statusCode, @classCode, @moodCode, and @nullFlavor which have HL7-defined value sets.

For example, [Encounter Act Status HL7 v3 \(required\)](#), applied to a encounter/statusCode element is to be interpreted as:

- statusCode/@code **SHALL** be present and **SHALL** contain a code from [Encounter Act Status HL7 v3](#)
- statusCode/@nullFlavor **SHALL NOT** be present as no meaningful value can be supplied
- no other attributes can be supplied as encounter/statusCode is of type Coded Simple (CS) which prohibits additional attributes

### Example 2.5. Interpreting required value set binding

```
<statusCode code="active" />
```

## Example of interpreting a required terminology binding on an element of type Concept Descriptor (CD)

A Concept Descriptor data type, or CD, is defined in the HL7 V3 Data types standards [HL7V3]. It is a reference to a concept defined in a code system. Common instances typed as CD include code, and value when typed to CD.

For example, [Encounter Act Status HL7 v3 \(required\)](#) applied to an observation/code is to be interpreted as:

- code/@code **SHALL** be present and **SHALL** contain a code from [Encounter Act Status HL7 v3](#)
- code/@codeSystem="2.16.840.1.113883.5.14" **SHALL** be present
- code/@nullFlavor **SHALL NOT** be present as no meaningful value can be supplied
- code/@displayName **SHOULD** be present and **SHOULD** contain the display associated with the selected code from the value set
- code/@codeSystemName **SHOULD** be present and **SHOULD** contain the display associated with the code system as it is registered with a registration authority such as HL7
- code/@originalText **SHOULD** be present and **SHOULD** carry the full text associated with this code as selected by, typed by, or displayed to the author
- code/@qualifier **SHALL NOT** be present as the example code system does not define qualifier values

- code/@translation **MAY** be present if an alternative terminology is in use in the sending system and a translation is available

#### Example 2.6. Interpreting required value set binding

```
<code code="active" codeSystem="2.16.840.1.113883.5.14" />  
<!-- or -->  
<code code="active" codeSystem="2.16.840.1.113883.5.14"  
codeSystemName="v3.ActStatus" displayName="active"/>  
<!-- or -->  
<code code="active" codeSystem="2.16.840.1.113883.5.14"  
codeSystemName="v3.ActStatus" displayName="active">  
  <originalText>Active</originalText>  
</code>
```

## 2.3.6 Conformance verbs

Where used in this implementation guide, the keywords **SHALL**, **SHOULD**, **MAY**, **SHALL NOT** and **SHOULD NOT** from [Key Words for Use in RFCs to Indicate Requirement Levels \[RFC2119\]](#) are to be interpreted as described in the table below.

Conformance verb	Interpretation
<b>SHALL</b>	<p>An absolute requirement.</p> <p>Where <b>SHALL</b> appears in any conformance constraint it indicates a mandatory requirement.</p> <p>Where <b>SHALL</b> is applied to the occurrences of an element or attribute then that element or attribute must be present but can be null if the value is not known and the value has not been constrained to not allow a null value.</p>
<b>SHOULD</b>	<p>A requirement that is considered best practice or recommendation for inclusion. There may be valid reasons to ignore an item, but the full implications must be understood and carefully weighed before choosing a different course.</p> <p>Where <b>SHOULD</b> appears in a conformance constraint that constrains the allowed occurrences of an item it indicates that the item may not be present but does not override the upper bound of the cardinality range.</p> <p>For a sending application where <b>SHOULD</b> is applied to the occurrences of an item then that item must be present if a sending application has the data for that data element. If the value is not known the element or attribute does not need to be included.</p> <p>Implementers must support an optional requirement.</p>
<b>MAY</b>	<p>A requirement that can be included or omitted as the author decides with no implications.</p> <p>Where <b>MAY</b> appears in a conformance constraint that constrains the allowed occurrences of an item it indicates that the item may not be present but does not override the upper bound of the cardinality range.</p> <p>Implementers must support an optional requirement.</p>
<b>SHALL NOT</b>	<p>An absolute prohibition.</p> <p>Where <b>SHALL NOT</b> appears in any conformance constraint it indicates a mandatory prohibition requirement.</p>

Conformance verb	Interpretation
<b>SHOULD NOT</b>	<p>A requirement that is considered best practice or recommendation against inclusion. There may be valid reasons to ignore an item, but the full implications must be understood and carefully weighed before choosing a different course.</p> <p>Where <b>SHOULD NOT</b> appears in a conformance constraint that constrains the allowed occurrences of an item it indicates that the item may not be present but does not override the upper bound of the cardinality range.</p> <p>For a sending application where <b>SHOULD NOT</b> is applied to the occurrences of an item then that element or attribute must be present if a sending application has the data for that data element. If the value is not known the element or attribute does not need to be included.</p> <p>Implementers must support an optional requirement.</p>

## 2.3.7 Cardinality notation

The cardinality range specifies the allowable occurrences in the format "m..n" where m is the minimum allowed members of the set (lower bound) and n is the maximum allowed members of the set (upper bound). The allowed values for m and n are 0, any positive integer, and \*.

The table below demonstrates a representative set of examples of cardinality range and how to interpret that cardinality range; p is positive integer greater than the minimum allowed members of the set.

Cardinality range	Interpretation
0..0	zero (explicitly prohibited)
0..1	zero or one
1..1	exactly one
0..*	zero or more
1..*	at least one
2..*	at least two
1..p	at least one and not more than p
2..p	at least two and not more than p

## 2.3.8 Interpreting cardinality in a CDA mapping table for logical elements

A CDA mapping table for logical elements will include a logical cardinality range for each logical element and a series of CDA schema elements that when instantiated are considered to be the CDA representation of that logical element.

In order to instantiate a logical element all CDA schema elements mapped to that logical element are to be instantiated unless a constraint is present in the mapping table to indicate otherwise. This means that while the first CDA schema element in a series has a comparative relationship to the logical cardinality, the effect on the additional CDA schema elements in a series is always that their minimum occurrence is to be interpreted as 1.

The logical cardinality is applied to the first mapped CDA schema element in a series in the following manner:

- The most strict minimum occurrence between the logical cardinality or the CDA schema cardinality is applied.
  - If a logical element has a minimum cardinality of 1 and the mapped CDA schema element has a minimum cardinality of 0 then the most strict cardinality of 1 applies to that CDA schema element.
- A CDA schema element with an [index] (see [XPath like notation](#)), e.g. `representedOrganization/name[business]`, has the maximum occurrence of the logical element applied as a pattern 'like this'.
  - For example, if the logical cardinality of Organization > name is 0..1 and that logical element is mapped to `representedOrganization/name[business] = "TestOrg"` (CDA schema cardinality of 0..\*), then a maximum of one instance of `representedOrganization/name` that has a value of "TestOrg" may be present. Other instances of `representedOrganization/name` that do not meet the pattern of "TestOrg" may be present.
- A CDA schema element with no [index] (see [XPath like notation](#)), e.g. `representedOrganization/name`, has the most strict maximum occurrence between the logical cardinality or the CDA schema cardinality applied.
  - For example, if the logical cardinality of Organization > name is 0..1 and that logical element is mapped to `representedOrganization/name` (CDA schema cardinality of 0..\*), then the most strict cardinality of 1 applies to that CDA schema element.

### Example 2.7. CDA mapping fragment - Interpreting cardinality in a CDA mapping table for logical elements

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Body Level 3 Data Elements</b>					
<code>section</code>	A set of allergies or intolerances that have been categorised as critical.	Cardinality comes from linking element	<a href="#">BackboneElement</a>	<code>section</code>	section/@nullFlavor <b>SHALL NOT</b> be present.
				<code>section/templatelid</code>	
				<code>section/templatelid/@root="1.2.36.1.2001.1001.102.101.100092"</code>	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
section > title	The label for this particular section. This will be part of the rendered content for the document, and is often used to build a table of contents.	1..1	<a href="#">string</a>	section/title	
section > code	A code identifying the kind of content contained within the section. This must be consistent with the section title.	1..1	<a href="#">CodeableConcept</a>	section/code	
				section/code/@code="48765-2"	
				section/code/@codeSystem="2.16.840.1.113883.6.1"	<a href="#">LOINC</a>
				section/code/@displayName	displayName <b>SHOULD</b> be "Allergies &or adverse reactions".
section > text	A human-readable narrative that contains the attested content of the section, used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it 'clinically safe' for a human to just read the narrative.	1..1	<a href="#">Narrative</a>	section/text	
section > entry	A reference to the actual resource from which the narrative in the section is derived.	1..*	<a href="#">Reference</a> (Summary Statement of Allergy or Intolerance)	section/entry[adv]	observation <b>SHALL</b> conform to the template defined in observation (Critical Allergy or Intolerance).
				section/entry[adv]/observation	

The above template fragment states that each instance of the logical element section is represented as a section with:

- section attributes that are not nullFlavor (e.g. classCode) are allowed as defined in the CDA schema as long as conformance to [Base conformance requirements](#) is maintained.
- One templateId with a root="1.2.36.1.2001.1001.102.101.100092". Additional instances of templateId are allowed.
- Exactly one title.
- Exactly one code with a code="48765-2" and a codeSystem="2.16.840.1.113883.6.1" and a displayName.
- At least one entry[adv]/observation that conforms to the template observation (Summary Statement of Allergy or Intolerance) [templateId: 1.2.36.1.2001.1001.102.101.100093]. Additional instances of entry that do not contain an observation are allowed.
- Additional section elements (e.g. author) are allowed as defined in the CDA schema as long as conformance to [Base conformance requirements](#) is maintained.

#### Example 2.8. Interpreting cardinality in a CDA mapping table for logical elements

```
<clinicalDocument xmlns="urn:hl7-org:v3" xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  ...
  <component>
    <structuredBody>
      ...
      <!-- section (Allergies) -->
      <component>
        <section>
```

```
<templateId root="1.2.36.1.2001.1001.102.101.100092"/>
<code code="48765-2" codeSystem="2.16.840.1.113883.6.1" displayName="Allergies &or adverse reactions"/>
<title>Critical Allergies and Adverse Reactions</title>
<text mediaType="text/x-hl7-text+xml">Allergy to Latex (CRITICAL)</text>
...
<!--section entry -->
<entry typeCode="DRIV">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="1.2.36.1.2001.1001.102.101.100093"/>
    ...
  </observation>
</entry>
</section>
</component>
...
</ClinicalDocument>
```

## 2.4 Mapping presentation and structure

The CDA templates described in this implementation guide are presented in table format and will be either:

- a mapping of each logical element of the logical model (i.e. profiled FHIR resources published in [Shared Medicines List FHIR Implementation Guide \[DH2020I\]](#)) to a corresponding CDA attribute or element, or
- a set of CDA attributes or elements with specified infrastructure or control requirements that are not sourced from the logical model but are necessary for supporting the usage scenarios in a CDA implementation.

CDA templates mapping logical elements are roughly grouped by HL7 Reference Information Model (RIM) class within a templates chapter, e.g. [8 Participation CDA templates](#).

The heading for each child section identifies the CDA schema element that is templated, and may also identify the name of part of the logical model that the template corresponds to, e.g. recordTarget (My Health Record Patient) defines the CDA template of the recordTarget CDA schema element to represent the logical model My Health Record Patient.

## 2.4.1 Legend - CDA mapping table for logical elements

A CDA mapping table for logical elements aims to take implementers step by step through mapping each element of the logical model to a corresponding CDA attribute or element. The following section describes in more detail the fields used to present the mapping content in this implementation guide.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA conformance level</b> , e.g. CDA Header, CDA Body Level 3 Data Elements					Context: The root context that is applied as a prefix to the CDA schema element paths in the mapping rows below
The logical hierarchical path in the logical model expressed using names of the elements in the logical model.  If there is a name in round brackets after the path, this is the label for that element or resource.  The text in <b>bold</b> (the last in the path) is the subject for this row in the convention <Parent (Label)> > <Child ( <b>Label</b> )>, e.g.  Composition > section (Allergies)	The description of the element in the logical model.	<p>The cardinality of the logical element in the logical model (see <a href="#">Cardinality notation</a>).</p> <p>The root element of each template will typically express an inherited cardinality from the parent element in a parent template by stating:</p> <p style="padding-left: 20px;">Cardinality comes from linking element</p> <p>A logical cardinality is applied to the mapped CDA schema elements as described in <a href="#">Interpreting cardinality in a CDA mapping table for logical elements</a>:</p> <ul style="list-style-type: none"> <li>• The most strict minimum occurrence between the logical cardinality or the CDA schema defined cardinality is applied.</li> <li>• The most strict maximum occurrence applies to CDA schema elements without an [index].</li> <li>• The maximum occurrence of the logical cardinality applies as a pattern 'like this' to CDA schema elements with an [index].</li> </ul>	<p>The type of the logical element (hyper-linked to the definition of the <a href="#">[HL7FHIR3]</a> type) in the logical model.</p> <p>This may be expressed as a type that is further constrained by a model in the convention &lt;model name&gt;, e.g.</p> <p style="padding-left: 20px;">Patient with Mandatory Identifier.</p>	<p>The CDA schema element(s) in the CDA template that when instantiated are considered to be the CDA representation of that logical element; expressed using an <a href="#">XPath like notation</a>, e.g.:</p> <p style="padding-left: 20px;">participant[location]/associatedEntity/<b>code</b></p> <p>The path always starts from the context as defined in the grey header row above each group of mapping rows.</p> <p>The last CDA schema element in the path is presented in bold to aid the reader.</p> <p>Typically a logical model element will map to multiple CDA schema elements. In order to instantiate the logical element in CDA, the minimum cardinality of the mapped CDA schema elements should be understood to be 1 unless an associated constraint is present to indicate a different cardinality (see <a href="#">Interpreting cardinality in a CDA mapping table for logical elements</a>).</p>	<p>Additional information or guidance on implementing the logical element in CDA to support usage scenarios, e.g.</p> <p style="padding-left: 20px;">When sending to the My Health Record, an IHL is expected.</p> <p>Constraints on the CDA schema elements, identified by use of <a href="#">Conformance verbs</a>, e.g.</p> <p style="padding-left: 20px;">code/original-Text or code/@displayName <b>SHALL</b> be included.</p> <p>Terminology binding, e.g.</p> <p style="padding-left: 20px;"><a href="#">Address Type</a> <a href="#">HL7 v3 (required)</a>.</p>

## 2.4.2 Legend - CDA mapping table for CDA schema elements

A CDA mapping table for CDA schema elements will define conformance requirements that are not sourced from a logical model and that apply cross all of the supported usage scenarios. The following section describes in more detail the fields used to present the mapping content in this implementation guide.

### CDA mapping

CDA schema element	CDA element description	CDA card	CDA constraints and comments
<b>CDA conformance level, e.g. CDA Header, CDA Body Level 3 Data Elements</b>			
The CDA schema element(s) in the CDA template using an <a href="#">XPath like notation</a> , e.g.:  ClinicalDocument/versionNumber/@value  The path always starts from the context as defined in the grey header row above each group of mapping rows.  The last CDA schema element in the path is presented in bold to aid the reader.	The description of the CDA schema element definitions, sourced from HL7 Clinical Document Architecture, Release 2 <a href="#">[HL7CDAR2]</a> .	The cardinality of the CDA schema element in the template (see <a href="#">Cardinality notation</a> ).  The root element of a template may express an inherited cardinality from the parent element in a parent template by stating:  Cardinality comes from linking element	Context: The root context that is applied as a prefix to the CDA schema element paths in the mapping rows below  Additional information or guidance on the use of the CDA schema element to support usage scenarios, e.g.  The use of templateId signals the imposition of a set of template-defined constraints.  Constraints on the CDA schema elements, identified by use of <a href="#">Conformance verbs</a> , e.g.  code/originalText or code/@displayName <b>SHALL</b> be included.  <a href="#">Terminology binding</a> , e.g.  <a href="#">Address Type HL7 v3 (required)</a> .



# 3 Conformance

Conformance claims are typically made against the templates in this implementation guide and additional conformance profiles documented elsewhere such as [Pharmacist Shared Medicines List Conformance Profile \[DH2020c\]](#).

## 3.1 Base conformance requirements

Any document that claims conformance to a ClinicalDocument template defined in this implementation guide or any derived conformance profile **SHALL** meet these base requirements:

- It **SHALL** be a valid HL7 CDA instance. In particular:
  - It **SHALL** be valid against the HL7 CDA schema (once extensions have been removed).
  - It **SHALL** conform to the HL7 V3 R1 data type specification.
  - It **SHALL** conform to the semantics of the RIM and Structural Vocabulary.
- It **SHALL** be valid against the Australian Digital Health Agency CDA schema that accompanies this implementation guide after any additional extensions not in the Australian Digital Health Agency extension namespace have been removed, along with any other CDA content not described by this implementation guide.
- It **SHALL** conform to the CDA templates it claims conformance to.
- It **SHALL** be valid against the additional conformance requirements that are established in this implementation guide (i.e. any normative use of the word "shall" identified by the term presented in uppercase and bold typeface).
- The narrative **SHALL** conform to the requirements described in this implementation guide.
- The document **SHALL** conform to the requirements specified in the CDA Rendering Specification [\[NEHT2012s\]](#).
- Any additional content included in the CDA document that is not described by this implementation guide:
  - **SHALL NOT** qualify or negate content described by this implementation guide
  - **SHALL** be clinically safe for receivers of the document to ignore the non-narrative additions when interpreting the existing content.

A system that *consumes* CDA documents that claim conformance to a ClinicalDocument template defined in this implementation guide or any derived conformance profile **SHALL** be able to:

- correctly process conformant instance documents, including correctly understanding all the information in the header and it **MAY** but is not required to, reject non-conformant documents.
- correctly render the document for end-users when appropriate (see [Clinical Document Architecture Release 2](#)) but is not required to process any or all of the structured data entries in the CDA document.

## 3.2 Conformance profile conformance requirements

Conformance profiles of this implementation guide **MAY** make additional rules that override templates in this implementation guide in regard to:

- Allowing the use of alternative value sets in place of the value sets - this is limited to not overriding the rules of the terminology binding strength.
  - For example, a [required](#) value set may be overridden by a value set whose values are a subset of those of the [required](#) binding.
- Restricting the data type of a CDA schema element or attribute.
- Restricting the allowed values of a CDA schema element or attribute.
- Restricting the cardinality of a CDA schema element or attribute.
- Providing more specific or additional mappings to CDA schema elements or attributes.
- Providing refined usage scenarios, definitions, and implementation guidance.

A conformance profile cannot break the rules established in this implementation guide.

## 3.3 CDA narrative conformance requirements

CDA requires that each section in its body include a narrative block, containing a clinically complete version of the section's encoded content using custom hypertext markup defined by HL7. The narrative is the human-readable and attestable part of a CDA document, and can stand alone as an accurate representation of the content of the document without any need to consult entries in the body.

It is an [HL7 Clinical Document Architecture \[HL7CDAR2\]](#) requirement that all clinical information **SHALL** be marked up in CDA narratives.

It is an [HL7 Clinical Document Architecture \[HL7CDAR2\]](#) requirement that the rendered narrative **SHALL** be able to stand alone as a source of authenticated information for consuming parties. Clinically relevant content from the CDA body **SHALL NOT** be omitted from the narrative.

There is no canonical markup for specific CDA components, but some conformance requirements apply:

- The narrative block **SHALL** be encapsulated within the text component of the CDA section.
- The narrative contents **SHALL** conform to the requirements specified in the CDA Rendering Specification [\[NEHT2012s\]](#).
- The narrative contents **SHALL** completely and accurately represent the clinical information encoded in the section. Clinical content **SHALL NOT** be omitted from the narrative.
  - In accordance with the requirement to completely represent section contents, elements of type [CodeableConcept](#) **SHALL** include an `originalText` or a `displayName` attribute (or both). Where available, the `originalText` **SHOULD** be found in the narrative, otherwise the `displayName` **SHOULD** be found in the narrative.
  - In accordance with the requirement to represent section contents in that section, the narrative of the content for a section **SHALL** be contained in that section or, if appropriate, the narrative of an ancestor section.
- The narrative **SHALL** conform to the content requirements of the CDA specification [\[HL7CDAR2\]](#) and the XML schema.

Clinical judgement is required to determine the appropriate presentation for narrative. We may release additional guidance in this regard.

DRAFT

# 4 Shared Medicines List Authored by Practitioner hierarchy

Shared Medicines List Authored by Practitioner is defined as:

A list of medicines authored by a practitioner at a point in time that describes the medicines an individual is taking.  
*Shared Medicines List FHIR Implementation Guide [DH2020I]*

The table below provides a hierarchical view of the Shared Medicines List Authored by Practitioner model as a tree structure in a hierarchical table; it is not intended to represent how the data contents are represented in a CDA document.

Composition (Shared Medicines List Authored by Practitioner), published as a set of FHIR profiles, can be found in the *Shared Medicines List FHIR Implementation Guide [DH2020I]*.

Logical element	Logical card	Logical type	CDA template
Composition (Shared Medicines List)		Shared Medicines List Authored by Practitioner	ClinicalDocument (Shared Medicines List Authored by Practitioner)
composition-author-role	1..1	Reference(PractitionerRole with Practitioner with Mandatory Identifier)	author (PractitionerRole with Practitioner with Mandatory Identifier)
information-recipient	0..*	Reference(Base Practitioner   Base Patient   Base RelatedPerson   Base PractitionerRole   Base Organization)	informationRecipient (Base Patient)   informationRecipient (Base RelatedPerson)   informationRecipient (Base PractitionerRole)   informationRecipient (Base Organization)
identifier	0..1	Identifier	
status	1..1	code	
type	1..1	CodeableConcept	
subject	1..1	Reference(Patient with Mandatory Identifier   My Health Record Patient)	recordTarget (Patient with Mandatory Identifier)   recordTarget (My Health Record Patient)
encounter	0..1	Reference(Summary of an Encounter for an Event)	encompassingEncounter (Summary of an Encounter for an Event)
encounter-description	0..1	string	
status	1..1	code	
class	0..1	Coding	
type	0..*	CodeableConcept	
subject	1..1	Reference(Patient with Mandatory Identifier)	
period	1..1	Period	
reason	0..*	CodeableConcept	
date	1..1	dateTime	
author	1..1	Reference(Practitioner with Mandatory Identifier)	assignedPerson (Practitioner with Mandatory Identifier)
title	1..1	string	
attester (Legal Attester)	1..1	BackboneElement	legalAuthenticator
mode	1..1	code	
time	1..1	dateTime	
party	1..1	Reference(Practitioner with Mandatory Identifier)	

Logical element		Logical card	Logical type	CDA template
	custodian	1..1	<a href="#">Reference</a> (Organization with Mandatory Identifier)	custodian (Organization with Mandatory Identifier)
	section (Allergies)	0..1	<a href="#">BackboneElement</a>	section (Allergies)
	title	1..1	<a href="#">string</a>	
	code	1..1	<a href="#">CodeableConcept</a>	
	text	1..1	<a href="#">Narrative</a>	
	entry	0..*	<a href="#">Reference</a> (Summary Statement of Allergy or Intolerance)	observation (Summary Statement of Allergy or Intolerance)
		author-related-person	0..1	<a href="#">Reference</a> (Base RelatedPerson)
		clinicalStatus	0..1	<a href="#">code</a>
		verificationStatus	1..1	<a href="#">code</a>
		type	0..1	<a href="#">code</a>
		code	1..1	<a href="#">CodeableConcept</a>
		patient	1..1	<a href="#">Reference</a> (Patient with Mandatory Identifier)
		onset[x]	0..1	<a href="#">dateTime</a> , <a href="#">Age</a> , <a href="#">Period</a> , <a href="#">Range</a>
		recorder	0..1	<a href="#">Reference</a> (Base Patient   Base Practitioner)
		note	0..*	<a href="#">Annotation</a>
		reaction	0..*	<a href="#">BackboneElement</a>
			0..1	<a href="#">CodeableConcept</a>
		manifestation	1..*	<a href="#">CodeableConcept</a>
	emptyReason	0..1	<a href="#">CodeableConcept</a>	
	section (Medicines List)	1..*	<a href="#">BackboneElement</a>	section (Medicines List)
	title	1..1	<a href="#">string</a>	
	code	1..1	<a href="#">CodeableConcept</a>	
	text	1..1	<a href="#">Narrative</a>	
	entry	0..1	<a href="#">Reference</a> (List of Medicine Items with Change Information Authored by Practitioner)	act (List of Medicine Items with Change Information Authored by Practitioner)
		author-role	1..1	<a href="#">Reference</a> (PractitionerRole with Practitioner with Mandatory Identifier)
		packed-in-daa	0..1	<a href="#">CodeableConcept</a>
		status	1..1	<a href="#">code</a>
		title	0..1	<a href="#">string</a>
		code	1..1	<a href="#">CodeableConcept</a>
		subject	1..1	<a href="#">Reference</a> (Patient with Mandatory Identifier   My Health Record Patient)
	encounter	0..1	<a href="#">Reference</a> (Summary of an Encounter for an Event)	encounter (Summary of an Encounter for an Event)
		encounter-description	0..1	<a href="#">string</a>
		status	1..1	<a href="#">code</a>
		class	0..1	<a href="#">Coding</a>
		type	0..*	<a href="#">CodeableConcept</a>
		subject	1..1	<a href="#">Reference</a> (Patient with Mandatory Identifier)
		period	1..1	<a href="#">Period</a>
		reason	0..*	<a href="#">CodeableConcept</a>

Logical element				Logical card	Logical type	CDA template
			date	1..1	<a href="#">dateTime</a>	
			source	1..1	<a href="#">Reference</a> (Practitioner with Mandatory Identifier)	assignedPerson (Practitioner with Mandatory Identifier)
			note	0..*	<a href="#">Annotation</a>	
			entry	1..*	<a href="#">BackboneElement</a>	
			change-description	0..1	<a href="#">string</a>	
			flag	0..1	<a href="#">CodeableConcept</a>	
			item	1..1	<a href="#">Reference</a> (Medicine Item Statement)	substanceAdministration (Medicine Item Statement)
			identifier	0..*	<a href="#">Identifier</a>	
			context	0..1	<a href="#">Reference</a> (Summary of an Encounter for an Event)	encounter (Summary of an Encounter for an Event)
			encounter-description	0..1	<a href="#">string</a>	
			status	1..1	<a href="#">code</a>	
			class	0..1	<a href="#">Coding</a>	
			type	0..*	<a href="#">CodeableConcept</a>	
			subject	1..1	<a href="#">Reference</a> (Patient with Mandatory Identifier)	
			period	1..1	<a href="#">Period</a>	
			reason	0..*	<a href="#">CodeableConcept</a>	
			status	1..1	<a href="#">code</a>	
			category	0..1	<a href="#">CodeableConcept</a>	
			medication[x]	1..1	<a href="#">Reference</a> (Base Medication)	manufacturedProduct (Base Medication)
			medication-brand-name	0..1	<a href="#">string</a>	
			medication-generic-name	0..1	<a href="#">string</a>	
			code	1..1	<a href="#">CodeableConcept</a>	
			status	0..1	<a href="#">code</a>	
			manufacturer	0..1	<a href="#">Reference</a> (Base Organization)	manufacturerOrganization (Base Organization)
			form	0..1	<a href="#">CodeableConcept</a>	
			ingredient	0..*	<a href="#">BackboneElement</a>	
				1..1	<a href="#">CodeableConcept</a>   <a href="#">Reference</a> (Base Substance   Base Medication)	
			isActive	0..1	<a href="#">boolean</a>	
			amount	0..1	<a href="#">Ratio</a>	
			package	0..1	<a href="#">BackboneElement</a>	
				0..1	<a href="#">BackboneElement</a>	
				lotNumber	<a href="#">string</a>	
				expirationDate	<a href="#">dateTime</a>	
			effective[x]	0..1	<a href="#">dateTime</a>   <a href="#">Period</a>	
			dateAsserted	0..1	<a href="#">dateTime</a>	
			informationSource	0..*	<a href="#">Reference</a> (Base RelatedPerson   Base Patient   Base Practitioner)	informant (Base RelatedPerson)   informant (Base Patient)   informant (Base Practitioner)
			subject	1..1	<a href="#">Reference</a> (Patient with Mandatory Identifier)	
			taken	1..1	<a href="#">code</a>	
			reasonNotTaken	0..*	<a href="#">CodeableConcept</a>	

Logical element					Logical card	Logical type	CDA template
				reasonCode	0..*	<a href="#">CodeableConcept</a>	
				note	0..*	<a href="#">Annotation</a>	
				dosage	0..*	<a href="#">AU Base Dosage</a>	
	entry				0..1	<a href="#">Reference</a> (Assertion of No Relevant Finding)	<a href="#">observation (Assertion of No Relevant Finding)</a>
		status			1..1	<a href="#">code</a>	
		code			1..1	<a href="#">CodeableConcept</a>	
		subject			1..1	<a href="#">Reference</a> (Patient with Mandatory Identifier)	
		effective[x]			0..1	<a href="#">dateTime</a>   <a href="#">Period</a>	
		performer			0..*	<a href="#">Reference</a> (Base Practitioner   Base Organization   Base RelatedPerson   Base Patient)	author (Base PractitionerRole)   participant (author Base Organization)   author (Base RelatedPerson)   author (Base Patient)
		value[x]			1..1	<a href="#">CodeableConcept</a>	
	emptyReason				0..1	<a href="#">CodeableConcept</a>	

## Note



The column "Logical element" contains the name of that element in the logical model.

The column "Logical card" contains the logical cardinality of that element in the logical model.

The column "Logical type" contains the type of the logical element (hyper-linked to the definition of the [\[HL7FHIR3\]](#) type) in the logical model.

The column "CDA template" contains the title of the corresponding CDA template for that logical element (hyper-linked to CDA mapping table for that template). The convention for the CDA template title is <CDA schema element> (<model name> where the template is not defined in [5 CDA Header templates](#)).

# 5 CDA Header templates

This chapter contains the CDA Header requirements for this implementation guide; these are infrastructure or control requirements that are not sourced from the document model, i.e. Shared Medicines List. These templates apply across all of the defined usage scenarios.

All the definitions in this chapter are sourced from HL7 Clinical Document Architecture, Release 2 [HL7CDAR2].

## 5.1 ClinicalDocument

This template is referenced by [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#).

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

### CDA mapping

CDA schema element	CDA element description	CDA card	CDA constraints and comments
<strong>CDA Header Data Elements</strong>			
ClinicalDocument	The ClinicalDocument class is the entry point into the CDA R-MIM, and corresponds to the <ClinicalDocument> XML element that is the root element of a CDA document.	1..1	Context: /  This template <b>SHALL</b> be a closed template.  All attributes of the ClinicalDocument element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.  All instances of a time value <b>SHALL</b> include hours, minutes and a time zone.  The CDA document <b>SHALL</b> be valid against the Australian Digital Health Agency CDA schema after any additional extensions not in the Australian Digital Health Agency extension namespace have been removed.
ClinicalDocument/realmCode	A realmCode signals the imposition of realm-specific constraints. The value identifies the realm in question.	0..*	All attributes of the realmCode element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/typeId	A technology-neutral explicit reference to the CDA Release 2 specification.	1..1	
ClinicalDocument/typeId/@extension="POCD_HD000040"		1..1	The unique identifier for the CDA Release 2 Hierarchical Description.
ClinicalDocument/typeId/@root="2.16.840.1.113883.1.3"		1..1	The OID for HL7 Registered models.

CDA schema element	CDA element description	CDA card	CDA constraints and comments
ClinicalDocument/templateId	A templateId signals the imposition of a set of template-defined constraints. The value provides a unique identifier for the templates in question.	1..*	<p>All attributes of the templateId element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.</p> <p>Exactly one template identifier <b>SHALL</b> indicate the constraints defined in this mapping table and have @root="1.2.36.1.2001.1001.102.101.100033".</p> <p>Exactly one template identifier <b>SHALL</b> indicate the constraints defined in the CDA Rendering Specification [NEHT2012s] and have @root="1.2.36.1.2001.1001.100.149".</p> <p>In addition to the template identifiers above, a template identifier is expected for the clinical document model as per <a href="#">ClinicalDocument (Shared Medicines List Authored by Practitioner)</a>. Additional template identifiers may be required by other specifications.</p> <p>Systems are not required to recognise any other template identifiers than the clinical document model templateId in order to understand the document as a [type] but these identifiers may influence how the document must be handled.</p>
ClinicalDocument/id	Represents the unique instance identifier of a clinical document.	1..1	<p>All attributes of the id element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed with the exception that @nullFlavor <b>SHALL NOT</b> be present.</p> <p>id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.</p>
ClinicalDocument/code	The code specifying the particular kind of document (e.g. History and Physical, Discharge Summary, Progress Note).	1..1	All attributes of the code element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed with the exception that @nullFlavor <b>SHALL NOT</b> be present.
ClinicalDocument/title	Represents the title of the document.	0..1	
ClinicalDocument/effectiveTime	Signifies the document creation time, when the document first came into being. Where the CDA document is a transform from an original document in some other format, the ClinicalDocument.effectiveTime is the time the original document is created.	1..1	All attributes of the effectiveTime element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed with the exception that @nullFlavor <b>SHALL NOT</b> be present.
ClinicalDocument/confidentialityCode/@nullFlavor="NA"	Codes that identify how sensitive a piece of information is and/or that indicate how the information may be made available or disclosed.	1..1	
ClinicalDocument/languageCode	Specifies the human language of character data (whether they be in contents or attribute values).	0..1	<Language Code> – <DIALECT> The <Language Code> <b>SHALL</b> be "en". The <DIALECT> <b>SHOULD</b> be "AU".
ClinicalDocument/languageCode/@code		1..1	
ClinicalDocument/setId	Represents an identifier that is common across all document revisions.	0..1	All attributes of the setId element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/versionNumber	An integer value used to version successive replacement documents.	0..1	
ClinicalDocument/versionNumber/@value		1..1	
ClinicalDocument/ext:completionCode	The lifecycle status of a document.	1..1	<p>All attributes of the completionCode element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed with the exception that @nullFlavor <b>SHALL NOT</b> be present.</p> <p><a href="#">Australian Healthcare Clinical Document Architecture Document Lifecycle Status (required)</a></p>
ClinicalDocument/recordTarget	Represents the medical record that this document belongs to.	1..1	All attributes and elements of the recordTarget element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/author	Represents the humans and/or machines that authored the document.	1..1	All attributes and elements of the author element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/dataEnterer	Represents the participant who has transformed a dictated note into text.	0..1	All attributes and elements of the dataEnterer element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.

CDA schema element	CDA element description	CDA card	CDA constraints and comments
ClinicalDocument/informant	Represents an informant (or source of information) who provides relevant information, such as the parent of a comatose patient who describes the patient's behavior prior to the onset of coma. Unless otherwise stated, the patient is implicitly the informant.	0..*	All attributes and elements of the informant element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/custodian	Represents the organization from which the document originates and 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.	1..1	All attributes and elements of the custodian element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/informationRecipient	Represents a recipient who should receive a copy of the document.	0..*	All attributes and elements of the informationRecipient element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/legalAuthenticator	Represents a participant who has legally authenticated the document.	0..1	All attributes and elements of the legalAuthenticator element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/authenticator	Represents a participant who has attested to the accuracy of the document, but who does not have privileges to legally authenticate the document. An example would be a resident physician who sees a patient and dictates a note, then later signs it.	0..*	All attributes and elements of the authenticator element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/participant	Represents a participant not explicitly mentioned by other classes that was somehow involved.	0..*	All attributes and elements of the participant element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/inFulfillmentOf	Relates the current document to an order this document fulfills (in whole or in part).	0..*	All attributes and elements of the inFulfillmentOf element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/documentationOf	Relates the current document to the related event that this document is documentation of.	0..*	All attributes and elements of the documentationOf element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/relatedDocument	Relates the current document to a parent document.	0..*	All attributes and elements of the relatedDocument element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/authorization	Relates the current document to consents associated with this document. The consent authorizes or certifies acts specified in the current document.	0..*	All attributes and elements of the authorization element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/componentOf	Relates the current document to the encounter. The current document is a documentation of events that occurred during the encounter.	0..1	All attributes and elements of the componentOf element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.
ClinicalDocument/component	Relates the associated document body as a component of the document.	1..1	All attributes and elements of the component element defined by the Australian Digital Health Agency CDA schema <b>SHALL</b> be allowed.

## 5.2 legalAuthenticator

This template is referenced by [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#).

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

### CDA mapping

CDA schema element	CDA element description	CDA card	CDA constraints and comments
<b>CDA Header Data Elements</b>		Context: /ClinicalDocument/	
legalAuthenticator	Represents a participant who has legally authenticated the document.	Cardinality comes from linking element	
legalAuthenticator/templateId	The use of templateId signals the imposition of a set of template-defined constraints.	1..1	
legalAuthenticator/templateId/@root="1.2.36.1.2001.1001.102.101.100012"		1..1	
legalAuthenticator/time/@value	Indicates the time of authentication.	1..1	
legalAuthenticator/signatureCode/@code="S"	Indicates that the signature has been affixed and is on file.	1..1	
legalAuthenticator/assignedEntity	A legalAuthenticator is a person in the role of an assigned entity (AssignedEntity class). An assigned entity is a person assigned to the role by the scoping organization. The entity playing the role is a person (Person class). The entity scoping the role is an organization (Organization class).	1..1	
legalAuthenticator/assignedEntity/id	A unique identifier for the player entity in this role.	1..1	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
legalAuthenticator/assignedEntity/code	The specific kind of role.	0..1	
legalAuthenticator/assignedEntity/addr	A postal address for the entity (assignedPerson) while in the role (assignedEntity).	0..*	
legalAuthenticator/assignedEntity/telecom	A telecommunication address for the entity (assignedPerson) while in the role (assignedEntity).	0..*	
legalAuthenticator/assignedEntity/assignedPerson	The entity playing the role (assignedEntity) is a person.	1..1	
legalAuthenticator/assignedEntity/assignedPerson/name	A non-unique textual identifier or moniker for the entity (assignedPerson).	0..*	
legalAuthenticator/assignedEntity/assignedPerson/ext:asEntityIdentifier	The entity identifier of the person.	0..*	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied.
legalAuthenticator/assignedEntity/representedOrganization	The entity scoping the role (assignedEntity).	0..1	
legalAuthenticator/assignedEntity/representedOrganization/name	A non-unique textual identifier or moniker for the entity (representedOrganization).	0..*	
legalAuthenticator/assignedEntity/representedOrganization/ext:asEntityIdentifier	A unique identifier for the scoping entity (represented organization) in this role (assignedEntity).	0..*	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied.

## 5.3 component (Administrative Observations)

This template is referenced by [recordTarget \(Patient with Mandatory Identifier\)](#), and [recordTarget \(My Health Record Patient\)](#).

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

### CDA mapping

CDA schema element	CDA element description	CDA card	CDA constraints and comments
Conformance level comes from linking elements	Context: /ClinicalDocument/component/structuredBody/		
component[admin_obs]	The models contain a number of elements for which there are no equivalent elements at that point in the hierarchical structure of the model mapped into CDA. These elements are considered to be "Administrative Observations" about the encounter, the patient or some other participant.	Cardinality comes from linking element	ClinicalDocument <b>SHALL</b> contain at most one Administrative Observation section. The Administrative Observations section <b>SHALL NOT</b> be populated if there are no entries or text to go in it.
component[admin_obs]/section		1..1	
component[admin_obs]/section/templateId		1..1	The use of templateId signals the imposition of a set of template-defined constraints.
component[admin_obs]/section/templateId/@root="1.2.36.1.2001.1001.102.101.100000"		1..1	
component[admin_obs]/section/id	An observation included in this section is an observation relating to the patient (i.e. recordTarget) unless a reference to a different entity is instantiated as part of that observation (e.g. observation/participant/participantRole).	0..1	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
component[admin_obs]/section/code		1..1	
component[admin_obs]/section/code/@code="102.16080"		1..1	
component[admin_obs]/section/code/@codeSystem="1.2.36.1.2001.1001.101"		1..1	<a href="#">NCTIS Data Components</a>
component[admin_obs]/section/code/@displayName		0..1	displayName <b>SHOULD</b> be "Administrative Observations".
component[admin_obs]/section/title="Administrative Observations"		0..1	
component[admin_obs]/section/text		0..1	



# 6 Document CDA templates

This chapter defines each of the document-level usage scenario models, e.g. Composition (Shared Medicines List Authored by Practitioner), as a ClinicalDocument template.

## 6.1 ClinicalDocument (Shared Medicines List Authored by Practitioner)

The following are the overarching usage scenarios this template is intended to support:

- A clinical information system (CIS) sends or receives a practitioner authored shared medicines list document with the My Health Record system
- A contracted service provider (CSP) sends or receives a practitioner authored shared medicines list document with the My Health Record system
- A CIS sends or receives a practitioner authored shared medicines list document with another CIS or CSP
- A CSP sends or receives a practitioner authored shared medicines list document with a CIS or another CSP
- A registered portal or registered repository receives a practitioner authored shared medicines list document

An expected usage scenario; further scoping the above overarching scenarios is:

- A practitioner authored shared medicines list document exchanged as a pharmacist shared medicines list (PSML)

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

## CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>				Context: /	
Composition	A list of medicines authored by a practitioner at a point in time that describes the medicines an individual is taking.	0..*	<a href="#">Composition</a>	<b>ClinicalDocument</b>	In CDA the maximum occurrences of ClinicalDocument is 1. Although the model indicates that Composition is 0..*, in a CDA implementation this is limited to 0..1.  In addition to the template defined in this mapping table, ClinicalDocument <b>SHALL</b> conform to the template defined in <a href="#">ClinicalDocument</a> .
				<b>ClinicalDocument/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>ClinicalDocument/templateId/@root="1.2.36.1.2001.1001.102.101.100065"</b>	
Composition > <b>composition-author-role</b>	A practitioner role that authored this composition. This is not to be confused with who typed in the information.	1..1	<a href="#">Reference</a> (PractitionerRole with Practitioner with Mandatory Identifier)	<b>ClinicalDocument/author</b>	author <b>SHALL</b> conform to the template defined in <a href="#">author (PractitionerRole with Practitioner with Mandatory Identifier)</a> .
Composition > <b>information-recipient</b>	A recipient who should receive a copy of the composition. A recipient is an entity to whom a copy of the composition is directed at the time of authoring of the composition.	0..*	<a href="#">Reference</a> (Base Practitioner   Base Patient   Base RelatedPerson   Base PractitionerRole   Base Organization)	<b>ClinicalDocument/informationRecipient</b>	In CDA an information-recipient (Practitioner) is part of information-recipient (PractitionerRole).  informationRecipient <b>SHALL</b> conform to one of the templates defined in: <a href="#">informationRecipient (Base Patient)</a> or <a href="#">informationRecipient (Base RelatedPerson)</a> or <a href="#">informationRecipient (Base PractitionerRole)</a> or <a href="#">informationRecipient (Base Organization)</a> .
Composition > <b>identifier</b>	Logical identifier for the composition, assigned when created. This identifier stays constant as the composition is changed over time.	0..1	<a href="#">Identifier</a>	<b>ClinicalDocument/setId</b>	
Composition > <b>status</b>	The workflow/clinical status of this composition. The status is a marker for the clinical standing of the document.	1..1	<a href="#">code</a>	<b>ClinicalDocument/ext:completionCode</b>	<a href="#">Australian Healthcare Clinical Document Architecture Document Lifecycle Status (required)<sup>1</sup></a>
Composition > <b>type</b>	Specifies the particular kind of composition (e.g. History and Physical, Discharge Summary, Progress Note). This usually equates to the purpose of making the composition.	1..1	<a href="#">CodeableConcept</a>	<b>ClinicalDocument/code</b>	
				<b>ClinicalDocument/code/@code="56445-0"</b>	
				<b>ClinicalDocument/code/@codeSystem="2.16.840.1.113883.6.1"</b>	<a href="#">LOINC</a>
				<b>ClinicalDocument/code/@displayName</b>	displayName <b>SHOULD</b> be "Medication summary".
Composition > <b>subject</b>	Who or what the composition is about. The composition can be about a person, (patient or healthcare practitioner), a device (e.g. a machine) or even a group of subjects (such as a document about a herd of livestock, or a set of patients that share a common exposure).	1..1	<a href="#">Reference</a> (Patient with Mandatory Identifier   My Health Record Patient)	<b>ClinicalDocument/recordTarget</b>	When sending to the My Health Record, <b>recordTarget</b> ( <a href="#">My Health Record Patient</a> ) is expected.  <b>recordTarget</b> <b>SHALL</b> conform to one of the templates defined in: <a href="#">recordTarget (Patient with Mandatory Identifier)</a> or <a href="#">recordTarget (My Health Record Patient)</a> .

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
Composition > <b>encounter</b>	Describes the clinical encounter or type of care this documentation is associated with.	0..1	<a href="#">Reference</a> (Summary of an Encounter for an Event)	ClinicalDocument/componentOf	When sending a PSML, encounter is expected to be sent. encompassingEncounter <b>SHALL</b> conform to the template defined in encompassingEncounter ( <a href="#">Summary of an Encounter for an Event</a> ).
				ClinicalDocument/componentOf/encompassingEncounter	
Composition > <b>date</b>	The composition editing time, when the composition was last logically changed by the author.	1..1	<a href="#">dateTime</a>	ClinicalDocument/author/time	
Composition > <b>author</b>	Identifies who is responsible for the information in the composition, not necessarily who typed it in.	1..1	<a href="#">Reference</a> (Practitioner with Mandatory Identifier)	ClinicalDocument/author/assignedAuthor/assignedPerson	In CDA an author (Practitioner) assignedPerson (Practitioner with Mandatory Identifier) is part of composition-author-role (PractitionerRole) author (PractitionerRole with Practitioner with Mandatory Identifier).
Composition > <b>title</b>	Official human-readable label for the composition.	1..1	<a href="#">string</a>	ClinicalDocument/title	
Composition > <b>attester (Legal Attester)</b>	A participant who has attested to the accuracy of the composition/document.	1..1	<a href="#">BackboneElement</a>	ClinicalDocument/legalAuthenticator	legalAuthenticator <b>SHALL</b> conform to the template defined in legalAuthenticator.
Composition > attester (Legal Attester) > <b>mode</b>	The type of attestation the authenticator offers.	1..1	<a href="#">code</a>	n/a	Not mapped separately, the logical mode of "legal" is implicit in legalAuthenticator.
Composition > attester (Legal Attester) > <b>time</b>	When the composition was attested by the party.	1..1	<a href="#">dateTime</a>	ClinicalDocument/legalAuthenticator/time/@value	
Composition > attester (Legal Attester) > <b>party</b>	Who attested the composition in the specified way.	1..1	<a href="#">Reference</a> (Practitioner with Mandatory Identifier )	ClinicalDocument/legalAuthenticator/assignedEntity	The practitioner <b>SHALL</b> have an identifier (legalAuthenticator/assignedEntity/assignedPerson/ext:asEntityIdentifier).
Composition > <b>custodian</b>	Identifies the organization or group who is responsible for ongoing maintenance of and access to the composition/document information.	1..1	<a href="#">Reference</a> (Organization with Mandatory Identifier)	ClinicalDocument/custodian	custodian <b>SHALL</b> conform to the template defined in custodian (Organization with Mandatory Identifier).
Composition > <b>section (Allergies)</b>	Information about allergies or intolerances. Information may include allergies or intolerances that have been identified or reported, or may include statements that a patient is not known to have an allergy or category of allergies.	0..1	<a href="#">BackboneElement</a>	ClinicalDocument/component/structuredBody/component[allergy]	When sending a PSML, this section is expected only if at least one statement of allergy or intolerance can be sent. section <b>SHALL</b> conform to the template defined in section (Allergies).
				ClinicalDocument/component/structuredBody/component[allergy]/section	
Composition > <b>section (Medicines List)</b>	Information about medicines. This may include self-prescribed, clinician prescribed and nonprescription medicines, as well as all regular, intermittent and as required medicines pertinent to a patient. Information may also include changes to the therapy, including dose changes, new medicines and ceased medicines.	1..*	<a href="#">BackboneElement</a>	ClinicalDocument/component/structuredBody/component[meds]	When sending a PSML, this is expected as either: <ul style="list-style-type: none"><li>• a History of Medication section (section/code@code="10160-0"), or</li><li>• a Current Medicines section (section/code@code="101.32009") and, optionally a Ceased Medicines section (section/code@code="101.32027")</li></ul> section <b>SHALL</b> conform to the template defined in section (Medicines List).
				ClinicalDocument/component/structuredBody/component[meds]/section	

<sup>1</sup>This value set differs from the value set bound to status in the Agency logical model (see [Shared Medicines List FHIR Implementation Guide \[DH2020I\]](#)) to support the existing CDA implementation environment. The concept map [CompositionStatus \(HL7 FHIR\) to Australian Healthcare Clinical Document Architecture Document Lifecycle Status](#) provides a mapping between the two value sets.



# 7 Section CDA templates

This chapter defines the section templates referenced by a ClinicalDocument template for a document-level model in [6 Document CDA templates](#).

## 7.1 section (Allergies)

This template is referenced by [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Body Level 3 Data Elements</b>		Context: Comes from linking elements			
section	Information about allergies or intolerances. Information may include allergies or intolerances that have been identified or reported, or may include statements that a patient is not known to have an allergy or category of allergies.	Cardinality comes from linking element	<a href="#">BackboneElement</a>	section	This section <b>SHALL</b> contain at least one entry (entry[adv]) or an emptyReason (entry[adv_empty]) but <b>SHALL NOT</b> contain both.
				section/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				section/templateId/@root="1.2.36.1.2001.1001.102.101.100069"	
section > title	The label for this particular section. This will be part of the rendered content for the document, and is often used to build a table of contents.	1..1	<a href="#">string</a>	section/title	
section > code	A code identifying the kind of content contained within the section. This must be consistent with the section title.	1..1	<a href="#">CodeableConcept</a>	section/code	
				section/code/@code="48765-2"	
				section/code/@codeSystem="2.16.840.1.113883.6.1"	<a href="#">LOINC</a>
				section/code/@displayName	displayName <b>SHOULD</b> be "Allergies &or adverse reactions".
section > text	A human-readable narrative that contains the attested content of the section, used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it 'clinically safe' for a human to just read the narrative.	1..1	<a href="#">Narrative</a>	section/text	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
section > <b>entry</b>	A reference to the actual resource from which the narrative in the section is derived.	0..*	<a href="#">Reference</a> (Summary Statement of Allergy or Intolerance)	section/entry[adv]	A statement of allergy or intolerance can be sent to state that a patient does have an allergy or category of allergies or it can be sent to state that they do not e.g. 716186003   No known allergy  716184000  No known latex allergy . observation <b>SHALL</b> conform to the template defined in <a href="#">observation (Summary Statement of Allergy or Intolerance)</a> .
				section/entry[adv]/observation	
section > <b>emptyReason</b>	If the section is empty, why the list is empty. An empty section typically has some text explaining the empty reason.	0..1	<a href="#">CodeableConcept</a>	section/entry[adv_empty]	
				section/entry[adv_empty]/observation	
				section/entry[adv_empty]/observation/@classCode="OBS"	
				section/entry[adv_empty]/observation/@moodCode="EVN"	
				section/entry[adv_empty]/observation/code	
				section/entry[adv_empty]/observation/code/@code="ASSERTION"	
				section/entry[adv_empty]/observation/code/@codeSystem="2.16.840.1.113883.5.4"	<a href="#">v3 Code System ActCode</a>
				section/entry[adv_empty]/observation/code/@displayName	displayName <b>SHOULD</b> be "Assertion".
				section/entry[adv_empty]/observation/value	value/@xsi:type <b>SHALL</b> be "CD". value/originalText or value/@displayName <b>SHALL</b> be included. <a href="#">Non-Clinical Empty Reason (required)</a> <sup>1</sup>

<sup>1</sup>This value set differs from the value set bound to status in the Agency logical model (see [Shared Medicines List FHIR Implementation Guide \[DH2020I\]](#)) due to pre-adoption of FHIR Release 4 terminology.

## 7.2 section (Medicines List)

This template is referenced by [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Body Level 3 Data Elements		Context: Comes from linking elements			
section	Information about medicines. This may include self-prescribed, clinician prescribed and nonprescription medicines, as well as all regular, intermittent and as required medicines pertinent to a patient. Information may also include changes to the therapy, including dose changes, new medicines and ceased medicines.	Cardinality comes from linking element	<a href="#">BackboneElement</a>	section	This section <b>SHALL</b> contain an entry (entry[meds]) or an emptyReason (entry[meds_empty]) but <b>SHALL NOT</b> contain both. A Ceased Medicines section (code@code="101.32027") <b>SHALL NOT</b> have an assertion of no relevant finding entry (entry[meds]/observation/value/@code="1234391000168107").
				section/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				section/templateId/@root="1.2.36.1.2001.1001.102.101.100077"	
section > title	The label for this particular section. This will be part of the rendered content for the document, and is often used to build a table of contents.	1..1	<a href="#">string</a>	section/title	
section > code	A code identifying the kind of content contained within the section. This must be consistent with the section title.	1..1	<a href="#">CodeableConcept</a>	section/code	code/originalText or code/@displayName <b>SHALL</b> be included. <a href="#">History Of Medication Use List Type (required)</a>
section > text	A human-readable narrative that contains the attested content of the section, used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it 'clinically safe' for a human to just read the narrative.	1..1	<a href="#">Narrative</a>	section/text	
section > entry	A reference to the actual resource from which the narrative in the section is derived.	0..1	<a href="#">Reference(List of Medicine Items with Change Information Authored by Practitioner   Assertion of No Relevant Finding)</a>	section/entry[meds]	A section entry <b>SHALL</b> be instantiated as an: <ul style="list-style-type: none"><li>act (section/entry[meds]/act) conforming to <a href="#">act (List of Medicine Items with Change Information Authored by Practitioner)</a> with the same code (section/entry[meds]/act/code/@code) as this section (section/code/@code), or</li><li>observation (section/entry[meds]/observation) conforming to <a href="#">observation (Assertion of No Relevant Finding)</a> asserting that there are no known current medications (section/entry[meds]/observation/value/@code="1234391000168107")</li></ul>

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
section > <b>emptyReason</b>	If the section is empty, why the list is empty. An empty section typically has some text explaining the empty reason.	0..1	<a href="#">CodeableConcept</a>	section/entry[meds_empty] section/entry[meds_empty]/observation section/entry[meds_empty]/observation/@classCode="OBS" section/entry[meds_empty]/observation/@moodCode="EVN" section/entry[meds_empty]/observation/code section/entry[meds_empty]/observation/code/@code="ASSERTION" section/entry[meds_empty]/observation/code/@codeSystem="2.16.840.1.113883.5.4" section/entry[meds_empty]/observation/code/@displayName section/entry[meds_empty]/observation/value	displayName <b>SHOULD</b> be "Assertion". value/@xsi:type <b>SHALL</b> be "CD". value/originalText or value/@displayName <b>SHALL</b> be included. <a href="#">Non-Clinical Empty Reason (required)</a> <sup>1</sup>

<sup>1</sup>This value set differs from the value set bound to status in the Agency logical model (see [Shared Medicines List FHIR Implementation Guide \[DH2020I\]](#)) due to pre-adoption of FHIR Release 4 terminology.

# 8 Participation CDA templates

This chapter defines the participation templates referenced by other templates such as those in [7 Section CDA templates](#) and [6 Document CDA templates](#).

## 8.1 recordTarget (My Health Record Patient)

This template is referenced by [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements		Context: /ClinicalDocument/			
Patient	Demographics and other administrative information about an individual receiving care or other health-related services.	Cardinality comes from linking element	<a href="#">Patient</a>	recordTarget	recordTarget/patientRole/telecom <b>SHALL NOT</b> be present. recordTarget/patientRole/addr <b>SHALL NOT</b> be present.
				recordTarget/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				recordTarget/templateId/@root="1.2.36.1.2001.1001.102.101.100091"	
				recordTarget/patientRole	
				recordTarget/patientRole/id	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
				recordTarget/patientRole/patient	
Patient > birthPlace	The registered place of birth of the patient. A system may use the address.text if they don't store the birthPlace address in discrete elements.	0..1	<a href="#">Address</a>	recordTarget/patientRole/patient/birthplace	
				recordTarget/patientRole/patient/birthplace/place	
				recordTarget/patientRole/patient/birthplace/place/addr	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   AU Base Address.
Patient > indigenous-status	National Health Data Dictionary (NHDD) based indigenous status for a patient.	1..1	<a href="#">Coding</a>	recordTarget/patientRole/patient/ethnicGroupCode	<a href="#">Australian Indigenous Status (required)</a>

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/
Patient > <b>closing-the-gap-registration</b>	Indication for eligibility for the Closing the Gap program.	0..1	<a href="#">boolean</a>	entry[close_gap] entry[close_gap]/observation entry[close_gap]/observation/@classCode="OBS" entry[close_gap]/observation/@moodCode="EVN" entry[close_gap]/observation/code entry[close_gap]/observation/code/@code="103.32011" entry[close_gap]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" entry[close_gap]/observation/code/@displayName entry[close_gap]/observation/value	The containing component[admin_obs]/section <b>SHALL</b> conform to the template defined in <a href="#">component (Administrative Observations)</a> .  <b>NCTIS Data Components</b>  displayName <b>SHOULD</b> be "Closing the Gap Copayment Eligibility Indicator".  closing-the-gap-registration is "true" if eligible for Closing the Gap co-payment. value/@xsi:type <b>SHALL</b> be "BL".
Patient > <b>patient-mothersMaidenName</b>	Mother's maiden (unmarried) name, commonly collected to help verify patient identity.	0..1	<a href="#">string</a>	entry[mothers_name] entry[mothers_name]/observation entry[mothers_name]/observation/@classCode="OBS" entry[mothers_name]/observation/@moodCode="EVN" entry[mothers_name]/observation/code entry[mothers_name]/observation/code/@code="103.10245" entry[mothers_name]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" entry[mothers_name]/observation/code/@displayName entry[mothers_name]/observation/value	The containing component[admin_obs]/section <b>SHALL</b> conform to the template defined in <a href="#">component (Administrative Observations)</a> .  <b>NCTIS Data Components</b>  displayName <b>SHOULD</b> be "Mother's Original Family Name". value/@xsi:type <b>SHALL</b> be "ST".
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Patient > <b>identifier</b>	An identifier for this patient.	1..*	<a href="#">Identifier</a>	recordTarget/patientRole/patient/ext:asEntityIdentifier	The logical cardinality of identifier is 1..*. In this template the minimum cardinality is satisfied by supplying a National Individual Healthcare Identifier (ext:asEntityIdentifier[ihi]).  The common pattern <b>Entity Identifier</b> <b>SHALL</b> be applied.  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
Patient > <b>identifier (National Individual Healthcare Identifier (IHI))</b>	National Healthcare Identifier (IHI) for the patient.	1..1	<a href="#">Identifier</a>	recordTarget/patientRole/patient/ext:asEntityIdentifier[ihi]	In CDA, an Individual Healthcare Identifier (IHI) is sent as the last arc of an OID.
				recordTarget/patientRole/patient/ext:asEntityIdentifier[ihi]/@classCode="IDENT"	For example an IHI of 8003608833357361 would be sent as 1.2.36.1.2001.1003.0.8003608833357361.
				recordTarget/patientRole/patient/ext:asEntityIdentifier[ihi]/ext:id	If present, ext:asEntityIdentifier[ihi]/ext:assigningGeographicArea/ext:name <b>SHALL</b> be "National Identifier".
				recordTarget/patientRole/patient/ext:asEntityIdentifier[ihi]/ext:id/@root	ext:id/@extension <b>SHALL NOT</b> be present.
				recordTarget/patientRole/patient/ext:asEntityIdentifier[ihi]/ext:id/@assigningAuthorityName="IHI"	root <b>SHALL</b> be an OID. root <b>SHALL</b> have the OID arcs "1.2.36.1.2001.1003.0" preceding the IHI value. The IHI value (last arc of the root OID) prefix <b>SHALL</b> be "800360". The IHI value (last arc of the root OID) <b>SHALL</b> pass the Luhn algorithm check.
Patient > <b>active</b>	Whether this patient record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Patient > <b>name</b>	A name associated with the individual.	1..*	Base HumanName	recordTarget/patientRole/patient/name	At least one name <b>SHALL</b> contain a family name (name/family). The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .
Patient > <b>gender</b>	Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.	1..1	<a href="#">code</a>	recordTarget/patientRole/patient/administrativeGenderCode	<a href="#">AdministrativeGender (required)<sup>1</sup></a>
Patient > <b>birthDate</b>	The date of birth for the individual.	1..1	<a href="#">date</a>	recordTarget/patientRole/patient/birthTime	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/
Patient > birthDate > date-accuracy-indicator	General date accuracy indicator coding.	0..1	<a href="#">Coding</a>	entry[dob_acc] entry[dob_acc]/observation entry[dob_acc]/observation/@classCode="OBS" entry[dob_acc]/observation/@moodCode="EVN" entry[dob_acc]/observation/code entry[dob_acc]/observation/code/@code="102.16234" entry[dob_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" entry[dob_acc]/observation/code/@displayName entry[dob_acc]/observation/value	The containing component[admin_obs]/section <b>SHALL</b> conform to the template defined in <a href="#">component (Administrative Observations)</a> .  <a href="#">NCTIS Data Components</a>  displayName <b>SHOULD</b> be "Date of Birth Accuracy Indicator". value/@xsi:type <b>SHALL</b> be "CD". <a href="#">Date Accuracy Indicator (required)</a>
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Patient > birthDate > patient-birthTime	The time of day that the Patient was born. This includes the date to ensure that the timezone information can be communicated effectively.	0..1	<a href="#">dateTime</a>	n/a	Not mapped separately, encompassed in patientRole/patient/birthTime.
Patient > deceased[x]	Indicates if the individual is deceased or not. Deceased date accuracy indicator is optional.	0..1	<a href="#">boolean</a>   <a href="#">dateTime</a>	recordTarget/patientRole/patient/ext:deceasedInd recordTarget/patientRole/patient/ext:deceasedTime	Only one of ext:deceasedInd or ext:deceasedTime <b>SHOULD</b> be instantiated.
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/
Patient > deceased[x] > date-accuracy-indicator	General date accuracy indicator coding.	0..1	<a href="#">Coding</a>	entry[dod_acc] entry[dod_acc]/observation entry[dod_acc]/observation/@classCode="OBS" entry[dod_acc]/observation/@moodCode="EVN" entry[dod_acc]/observation/code entry[dod_acc]/observation/code/@code="102.16252" entry[dod_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" entry[dod_acc]/observation/code/@displayName entry[dod_acc]/observation/value	The containing component[admin_obs]/section <b>SHALL</b> conform to the template defined in <a href="#">component (Administrative Observations)</a> .  <a href="#">NCTIS Data Components</a>  displayName <b>SHOULD</b> be "Date of Death Accuracy Indicator". value/@xsi:type <b>SHALL</b> be "CD". <a href="#">Date Accuracy Indicator (required)</a>

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>				Context: /ClinicalDocument/	
Patient > <b>maritalStatus</b>	This field contains a patient's most recent marital (civil) status.	0..1	<a href="#">CodeableConcept</a>	recordTarget/patientRole/patient/maritalStatusCode	maritalStatusCode/originalText or maritalStatusCode/@displayName <b>SHALL</b> be included.  <a href="#">Marital Status Codes (extensible)</a>
Patient > <b>multipleBirth[x]</b>	Indicates whether the patient is part of a multiple (bool) or indicates the actual birth order (integer).	0..1	<a href="#">boolean</a>   <a href="#">integer</a>	recordTarget/patientRole/patient/ext:multipleBirthInd	Only one of ext:multipleBirthInd or ext:multipleBirthOrderNumber <b>SHOULD</b> be instantiated.
				recordTarget/patientRole/patient/ext:multipleBirthOrderNumber	
Patient > <b>contact</b>	A contact party (e.g. guardian, partner, friend) for the patient.	0..*	<a href="#">BackboneElement</a>	<b>participant[pat_contact]</b>	In CDA, a patient's contact is represented by a participant. participant <b>SHALL</b> conform to the template defined in <a href="#">participant (Patient contact)</a> .
Patient > <b>communication</b>	Languages which may be used to communicate with the patient about his or her health.	0..*	<a href="#">BackboneElement</a>	recordTarget/patientRole/patient/languageCommunication	
Patient > communication > <b>lan-gage</b>	The ISO-639-1 alpha 2 code in lower case for the language, optionally followed by a hyphen and the ISO-3166-1 alpha 2 code for the region in upper case; e.g. 'en' for English, or 'en-US' for American English versus 'en-EN' for England English.	1..1	<a href="#">CodeableConcept</a>	recordTarget/patientRole/patient/languageCommunication/languageCode	This CDA schema element is of type CodedSimpleValue (CS).  <a href="#">Common Languages in Australia (extensible)</a>
Patient > communication > <b>pre-fered</b>	Indicates whether or not the patient prefers this language (over other languages he masters up a certain level).	0..1	<a href="#">boolean</a>	recordTarget/patientRole/patient/languageCommunication/preferenceInd	
Patient > <b>generalPractitioner</b>	Patient's nominated care provider.	0..*	<a href="#">Reference</a> (Base Organization   Base Practitioner)	<b>participant[gen_prac]</b>	participant <b>SHALL</b> conform to one of the templates defined in: <a href="#">participant (generalPractitioner Base Organization)</a> or <a href="#">participant (generalPractitioner Base Practitioner)</a> .
Patient > <b>managingOrganization</b>	Organization that is the custodian of the patient record.	0..1	<a href="#">Reference</a> (Base Organization)	recordTarget/patientRole/providerOrganization	providerOrganization <b>SHALL</b> conform to the template defined in <a href="#">providerOrganization (Base Organization)</a> .

<sup>1</sup>This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

## 8.2 recordTarget (Patient with Mandatory Identifier)

This template is referenced by [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>		Context: /ClinicalDocument/			
Patient	Demographics and other administrative information about an individual receiving care or other health-related services.	Cardinality comes from linking element	<a href="#">Patient</a>	<b>recordTarget</b>	
				<b>recordTarget/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>recordTarget/templateId/@root="1.2.36.1.2001.1001.102.101.100004"</b>	
				<b>recordTarget/patientRole</b>	
				<b>recordTarget/patientRole/id</b>	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
				<b>recordTarget/patientRole/patient</b>	
Patient > <b>birthPlace</b>	The registered place of birth of the patient. A system may use the address.text if they don't store the birthPlace address in discrete elements.	0..1	<a href="#">Address</a>	<b>recordTarget/patientRole/patient/birthplace</b>	
				<b>recordTarget/patientRole/patient/birthplace/place</b>	
				<b>recordTarget/patientRole/patient/birthplace/place/addr</b>	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Patient > <b>indigenous-status</b>	National Health Data Dictionary (NHDD) based indigenous status for a patient.	0..1	<a href="#">Coding</a>	<b>recordTarget/patientRole/patient/ethnicGroupCode</b>	<a href="#">Australian Indigenous Status (required)</a>

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>				Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/	
Patient > <b>closing-the-gap-registration</b>	Indication for eligibility for the Closing the Gap program.	0..1	<a href="#">boolean</a>	entry[close_gap] entry[close_gap]/observation entry[close_gap]/observation/@classCode="OBS" entry[close_gap]/observation/@moodCode="EVN" entry[close_gap]/observation/code entry[close_gap]/observation/code/@code="103.32011" entry[close_gap]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" entry[close_gap]/observation/code/@displayName entry[close_gap]/observation/value	The containing component[admin_obs]/section <b>SHALL</b> conform to the template defined in <a href="#">component (Administrative Observations)</a> .  <a href="#">NCTIS Data Components</a>  displayName <b>SHOULD</b> be "Closing the Gap Copayment Eligibility Indicator".  closing-the-gap-registration is "true" if eligible for Closing the Gap co-payment. value/@xsi:type <b>SHALL</b> be "BL".
Patient > <b>patient-mothersMaidenName</b>	Mother's maiden (unmarried) name, commonly collected to help verify patient identity.	0..1	<a href="#">string</a>	entry[mothers_name] entry[mothers_name]/observation entry[mothers_name]/observation/@classCode="OBS" entry[mothers_name]/observation/@moodCode="EVN" entry[mothers_name]/observation/code entry[mothers_name]/observation/code/@code="103.10245" entry[mothers_name]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" entry[mothers_name]/observation/code/@displayName entry[mothers_name]/observation/value	The containing component[admin_obs]/section <b>SHALL</b> conform to the template defined in <a href="#">component (Administrative Observations)</a> .  <a href="#">NCTIS Data Components</a>  displayName <b>SHOULD</b> be "Mother's Original Family Name". value/@xsi:type <b>SHALL</b> be "ST".
<b>CDA Header Data Elements</b>				Context: /ClinicalDocument/	
Patient > <b>identifier</b>	An identifier for this patient.	1..*	<a href="#">Identifier</a>	recordTarget/patientRole/patient/ext:asEntityIdentifier	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Patient > <b>active</b>	Whether this patient record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Patient > <b>name</b>	A name associated with the individual.	0..*	Base HumanName	recordTarget/patientRole/patient/name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > <b>telecom</b>	A contact detail (e.g. a telephone number or an email address) by which the individual may be contacted.	0..*	<a href="#">ContactPoint</a>	recordTarget/patientRole/telecom	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Patient > <b>gender</b>	Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	recordTarget/patientRole/patient/administrativeGenderCode	In the Australian Digital Health Agency CDA schema the minimum occurrence of administrativeGenderCode is 1. Although administrativeGenderCode is required, a sending system may send a patient without gender by instantiating administrativeGenderCode/@nullFlavor="NI". No other nullFlavor value <b>SHALL</b> be allowed. <a href="#">AdministrativeGender (required)</a> <sup>1</sup>
Patient > <b>birthDate</b>	The date of birth for the individual.	0..1	<a href="#">date</a>	recordTarget/patientRole/patient/birthTime	
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/component/structuredBody/component@admin_obs)section/
Patient > birthDate > <b>date-accuracy-indicator</b>	General date accuracy indicator coding.	0..1	<a href="#">Coding</a>	<a href="#">entry[dob_acc]</a> <a href="#">entry[dob_acc]/observation</a> <a href="#">entry[dob_acc]/observation/@classCode="OBS"</a> <a href="#">entry[dob_acc]/observation/@moodCode="EVN"</a> <a href="#">entry[dob_acc]/observation/code</a> <a href="#">entry[dob_acc]/observation/code/@code="102.16234"</a> <a href="#">entry[dob_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"</a> <a href="#">entry[dob_acc]/observation/code/@displayName</a> <a href="#">entry[dob_acc]/observation/value</a>	The containing component@admin_obs)section <b>SHALL</b> conform to the template defined in <a href="#">component (Administrative Observations)</a> .  display Name <b>SHOULD</b> be "Date of Birth Accuracy Indicator". value/@xi:type <b>SHALL</b> be "CD". <a href="#">Date Accuracy Indicator (required)</a>
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Patient > birthDate > <b>patient-birthTime</b>	The time of day that the Patient was born. This includes the date to ensure that the timezone information can be communicated effectively.	0..1	<a href="#">dateTime</a>	n/a	Not mapped separately, encompassed in patientRole/patient/birthTime.
Patient > <b>deceased[x]</b>	Indicates if the individual is deceased or not. Deceased date accuracy indicator is optional.	0..1	<a href="#">boolean</a>   <a href="#">dateTime</a>	recordTarget/patientRole/patient/ext:deceasedInd recordTarget/patientRole/patient/ext:deceasedTime	Only one of ext:deceasedInd or ext:deceasedTime <b>SHOULD</b> be instantiated.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>				Context: /ClinicalDocument/component/structuredBody/component[admin_obs]/section/	
Patient > deceased[x] > date-accuracy-indicator	General date accuracy indicator coding.	0..1	<a href="#">Coding</a>	entry[dod_acc]	The containing component[admin_obs]/section <b>SHALL</b> conform to the template defined in <a href="#">component (Administrative Observations)</a> .
				entry[dod_acc]/observation	
				entry[dod_acc]/observation/@classCode="OBS"	
				entry[dod_acc]/observation/@moodCode="EVN"	
				entry[dod_acc]/observation/code	
				entry[dod_acc]/observation/code/@code="102.16252"	
				entry[dod_acc]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"	<a href="#">NCTIS Data Components</a>
				entry[dod_acc]/observation/code/@displayName	displayName <b>SHOULD</b> be "Date of Death Accuracy Indicator".
				entry[dod_acc]/observation/value	value/@xsi:type <b>SHALL</b> be "CD". <a href="#">Date Accuracy Indicator (required)</a>
<b>CDA Header Data Elements</b>				Context: /ClinicalDocument/	
Patient > address	Addresses for the individual.	0..*	<a href="#">Address</a>	recordTarget/patientRole/addr	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address   AU Base Address</a> .
Patient > maritalStatus	This field contains a patient's most recent marital (civil) status.	0..1	<a href="#">CodeableConcept</a>	recordTarget/patientRole/patient/maritalStatusCode	maritalStatusCode/originalText or maritalStatusCode/@displayName <b>SHALL</b> be included. <a href="#">Marital Status Codes (extensible)</a>
Patient > multipleBirth[x]	Indicates whether the patient is part of a multiple (bool) or indicates the actual birth order (integer).	0..1	<a href="#">boolean   integer</a>	recordTarget/patientRole/patient/ext:multipleBirthInd	Only one of ext:multipleBirthInd or ext:multipleBirthOrderNumber <b>SHOULD</b> be instantiated.
				recordTarget/patientRole/patient/ext:multipleBirthOrderNumber	
Patient > contact	A contact party (e.g. guardian, partner, friend) for the patient.	0..*	<a href="#">BackboneElement</a>	participant[pat_contact]	In CDA, a patient's contact is represented by a participant. participant <b>SHALL</b> conform to the template defined in <a href="#">participant (Patient contact)</a> .
Patient > communication	Languages which may be used to communicate with the patient about his or her health.	0..*	<a href="#">BackboneElement</a>	recordTarget/patientRole/patient/languageCommunication	
Patient > communication > language	The ISO-639-1 alpha 2 code in lower case for the language, optionally followed by a hyphen and the ISO-3166-1 alpha 2 code for the region in upper case; e.g. 'en' for English, or 'en-US' for American English versus 'en-EN' for England English.	1..1	<a href="#">CodeableConcept</a>	recordTarget/patientRole/patient/languageCommunication/languageCode	This CDA schema element is of type CodedSimpleValue (CS). <a href="#">Common Languages in Australia (extensible)</a>
Patient > communication > preferred	Indicates whether or not the patient prefers this language (over other languages he masters up a certain level).	0..1	<a href="#">boolean</a>	recordTarget/patientRole/patient/languageCommunication/preferenceInd	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > <b>generalPractitioner</b>	Patient's nominated care provider.	0..*	<a href="#">Reference</a> (Base Organization   Base Practitioner)	<b>participant[gen_prac]</b>	participant <b>SHALL</b> conform to one of the templates defined in: <a href="#">participant (generalPractitioner Base Organization)</a> or <a href="#">participant (generalPractitioner Base Practitioner)</a> .
Patient > <b>managingOrganization</b>	Organization that is the custodian of the patient record.	0..1	<a href="#">Reference</a> (Base Organization)	recordTarget/patientRole/ <b>providerOrganization</b>	providerOrganization <b>SHALL</b> conform to the template defined in <a href="#">providerOrganization (Base Organization)</a> .

<sup>1</sup>This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

## 8.3 participant (Patient contact)

This template is referenced by [recordTarget \(Patient with Mandatory Identifier\)](#), and [recordTarget \(My Health Record Patient\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements					Context: /ClinicalDocument/
Patient > <b>contact</b>	A contact party (e.g. guardian, partner, friend) for the patient.	Cardinality comes from linking element	<a href="#">BackboneElement</a>	<b>participant[pat_contact]</b>	The patient's contact <b>SHALL</b> have at least:
				<b>participant[pat_contact]/@typeCode="IND"</b>	<ul style="list-style-type: none"><li>name (participant[pat_contact]/associatedEntity/associatedPerson/name), or</li><li>telecom (participant[pat_contact]/associatedEntity/telecom), or</li><li>address (participant[pat_contact]/associatedEntity/address), or</li><li>organization (participant[pat_contact]/associatedEntity/scopingOrganization)</li></ul>
				<b>participant[pat_contact]/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>participant[pat_contact]/templateId/@root="1.2.36.1.2001.1001.102.101.100056"</b>	
				<b>participant[pat_contact]/associatedEntity</b>	
				<b>participant[pat_contact]/associatedEntity/@classCode="CON"</b>	
Patient > contact > <b>relationship</b>	The nature of the relationship between the patient and the contact person.	0..*	<a href="#">CodeableConcept</a>	<b>participant[pat_contact]/associatedEntity/associatedPerson/ext:personalRelationship</b>	The common pattern <a href="#">Personal Relationship</a> <b>SHALL</b> be applied.
				<b>participant[pat_contact]/associatedEntity/associatedPerson/ext:personalRelationship/ext:code</b>	ext:code/originalText or ext:code/@displayName <b>SHALL</b> be included. <a href="#">Contact Relationship Type (extensible)</a>
Patient > contact > <b>name</b>	A name associated with the contact person.	0..1	Base HumanName	<b>participant[pat_contact]/associatedEntity/associatedPerson/name</b>	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > contact > <b>telecom</b>	A contact detail for the person, e.g. a telephone number or an email address.	0..*	<a href="#">ContactPoint</a>	participant[pat_contact]/associatedEntity/telecom	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Patient > contact > <b>address</b>	Address for the contact person.	0..1	<a href="#">Address</a>	participant[pat_contact]/associatedEntity/addr	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Patient > contact > <b>gender</b>	Administrative Gender - the gender that the contact person is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	participant[pat_contact]/associatedEntity/associatedPerson/ext:administrativeGenderCode	<a href="#">AdministrativeGender (required)</a> <sup>1</sup>
Patient > contact > <b>organization</b>	Organization on behalf of which the contact is acting or for which the contact is working.	0..1	<a href="#">Reference(Base Organization)</a>	participant[pat_contact]/associatedEntity/scopingOrganization	scopingOrganization <b>SHALL</b> conform to the template defined in <a href="#">scopingOrganization (Base Organization)</a> .
Patient > contact > <b>period</b>	The period during which this contact person or organization is valid to be contacted relating to this patient.	0..1	<a href="#">Period</a>	n/a	This logical element has no mapping to CDA.

<sup>1</sup>This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

## 8.4 participant (Organization contact)

This template is referenced by [participant \(generalPractitioner Base Organization\)](#), [custodian \(Organization with Mandatory Identifier\)](#), [informationRecipient \(Base Organization\)](#), [providerOrganization \(Base Organization\)](#), [representedOrganization \(Base Organization\)](#), [receivedOrganization \(Base Organization\)](#), [participant \(author Base Organization\)](#), [scopingOrganization \(Base Organization\)](#), [wholeOrganization \(Base Organization\)](#), and [manufacturerOrganization \(Base Organization\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>		Context: /ClinicalDocument/			
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	Cardinality comes from linking element	<a href="#">Organization</a>	<b>participant[org_contact]</b>	
				<b>participant[org_contact]/@typeCode="IND"</b>	
				<b>participant[org_contact]/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>participant[org_contact]/templateId/@root="1.2.36.1.2001.1001.102.101.100035"</b>	
				<b>participant[org_contact]/associatedEntity</b>	
				<b>participant[org_contact]/associatedEntity/@classCode="CON"</b>	
				<b>participant[org_contact]/associatedEntity/scopingOrganization</b>	
				<b>participant[org_contact]/associatedEntity/scopingOrganization/id</b>	Organization > contact is represented in CDA by a participant that is scoped by the Organization for which they are a contact.  This id <b>SHALL</b> hold the same value as the organization this is a contact for (the value in this id element <b>SHALL</b> be present in a separate participation).  id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
Organization > contact > <b>purpose</b>	Indicates a purpose for which the contact can be reached.	0..1	<a href="#">CodeableConcept</a>	<b>participant[org_contact]/associatedEntity/code</b>	code/originalText or code/@displayName <b>SHALL</b> be included. <a href="#">Contact entity type (extensible)</a> <sup>1</sup>
Organization > contact > <b>name</b>	A name associated with the contact.	0..1	Base HumanName	<b>participant[org_contact]/associatedEntity/associatedPerson</b>	
				<b>participant[org_contact]/associatedEntity/associatedPerson/name</b>	The model Base HumanName is not applied to name.  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > contact > <b>telecom</b>	A contact detail (e.g. a telephone number or an email address) by which the party may be contacted.	0..*	<a href="#">ContactPoint</a>	participant[org_contact]/associatedEntity/telecom	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Organization > contact > <b>address</b>	Visiting or postal addresses for the contact.	0..1	<a href="#">Address</a>	participant[org_contact]/associatedEntity/addr	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .

<sup>1</sup>This value set differs from the value set bound to contact purpose in the Agency logical model (see [Shared Medicines List FHIR Implementation Guide \[DH2020I\]](#)) due to pre-adoption of FHIR Release 4 terminology.

## 8.5 participant (generalPractitioner Base Organization)

This template is referenced by [recordTarget \(Patient with Mandatory Identifier\)](#), and [recordTarget \(My Health Record Patient\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<strong>CDA Header Data Elements</strong>					Context: /ClinicalDocument/
Organization	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking element	<a href="#">Organization</a>	<code>participant[gen_prac]</code>	Organization <b>SHALL</b> have at least:
				<code>participant[gen_prac]/@typeCode="PART"</code>	<ul style="list-style-type: none"><li>• identifier (<code>participant[gen_prac]/associatedEntity/scopingOrganization/ext:asEntityIdentifier</code>), or</li><li>• name (<code>participant[gen_prac]/associatedEntity/scopingOrganization/name</code>)</li></ul>
				<code>participant[gen_prac]/templateId</code>	The use of templateId signals the imposition of a set of template-defined constraints.
				<code>participant[gen_prac]/templateId/@root="1.2.36.1.2001.1001.102.101.100036"</code>	
				<code>participant[gen_prac]/functionCode/@code="PCP"</code>	
				<code>participant[gen_prac]/associatedEntity</code>	
				<code>participant[gen_prac]/associatedEntity/@classCode="PROV"</code>	
Organization > <b>identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	<a href="#">Identifier</a>	<code>participant[gen_prac]/associatedEntity/scopingOrganization/ext:asEntityIdentifier</code>	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Organization > <b>active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Organization > <b>type</b>	The kind(s) of organization that this is.	0..*	<a href="#">CodeableConcept</a>	<code>participant[gen_prac]/associatedEntity/code</code>	In CDA the maximum occurrences of associatedEntity/code is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1.  <code>code/originalText</code> or <code>code/@displayName</code> <b>SHALL</b> be included.  <a href="#">OrganizationType (example)</a>

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > <b>name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	participant[gen_prac]/associatedEntity/scopingOrganization/ <b>name[org_name]</b>	In CDA name and alias are represented by scopingOrganization/name.
Organization > <b>alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	participant[gen_prac]/associatedEntity/scopingOrganization/ <b>name[alias]</b>	In CDA name and alias are represented by scopingOrganization/name.
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	participant[gen_prac]/associatedEntity/ <b>telecom</b>	telecom/@use <a href="#">Organization Telecom Use HL7 V3 (required)</a> <sup>1</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	participant[gen_prac]/associatedEntity/ <b>addr</b>	addr/@use <a href="#">Organization Address Use HL7 V3 (required)</a> <sup>2</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address   AU Base Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference</a> (Base Organization)	participant[gen_prac]/associatedEntity/scopingOrganization/ <b>asOrganizationPartOf</b> participant[gen_prac]/associatedEntity/scopingOrganization/ <b>asOrganizationPartOf/wholeOrganization</b>	wholeOrganization <b>SHALL</b> conform to the template defined in <a href="#">wholeOrganization (Base Organization)</a> .
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	0..*	<a href="#">BackboneElement</a>	<b>participant[org_contact]</b>	participant[org_contact] <b>SHALL</b> conform to the template defined in <a href="#">participant (Organization contact)</a> .

<sup>1</sup>This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.<sup>2</sup>This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

## 8.6 participant (generalPractitioner Base Practitioner)

This template is referenced by [recordTarget \(Patient with Mandatory Identifier\)](#), and [recordTarget \(My Health Record Patient\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements				Context: /ClinicalDocument/	
Practitioner	A person who is directly or indirectly involved in the provisioning of healthcare.	Cardinality comes from linking element	<a href="#">Practitioner</a>	<a href="#">participant[gen_prac]</a>	Practitioner <b>SHALL</b> have at least:
				<a href="#">participant[gen_prac]/@typeCode="PART"</a>	<ul style="list-style-type: none"><li>• identifier (<a href="#">participant[gen_prac]/associatedEntity/associatedPerson/ext:asEntityIdentifier</a>), or</li><li>• name (<a href="#">participant[gen_prac]/associatedEntity/associatedPerson/name</a>)</li></ul>
				<a href="#">participant[gen_prac]/templateId</a>	The use of templateId signals the imposition of a set of template-defined constraints.
				<a href="#">participant[gen_prac]/templateId/@root="1.2.36.1.2001.1001.102.101.100037"</a>	
				<a href="#">participant[gen_prac]/functionCode/@code="PCP"</a>	
				<a href="#">participant[gen_prac]/associatedEntity</a>	
				<a href="#">participant[gen_prac]/associatedEntity/@classCode="PROV"</a>	
				<a href="#">participant[gen_prac]/associatedEntity/id</a>	<b>id/@root</b> <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
				<a href="#">participant[gen_prac]/associatedEntity/code</a>	The cardinality of code <b>SHALL</b> be interpreted as 0..1. <a href="#">Australian and New Zealand Standard Classification of Occupations (preferred)</a>
Practitioner > <b>identifier</b>	An identifier that applies to this person in this role.	0..*	<a href="#">Identifier</a>	<a href="#">participant[gen_prac]/associatedEntity/associatedPerson/ext:asEntityIdentifier</a>	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Practitioner > <b>active</b>	Whether this practitioner's record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <b>name</b>	The name(s) associated with the practitioner.	0..*	Base HumanName	<a href="#">participant[gen_prac]/associatedEntity/associatedPerson/name</a>	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Practitioner > <b>telecom</b>	A contact detail for the practitioner, e.g. a telephone number or an email address.	0..*	<a href="#">ContactPoint</a>	participant[gen_prac]/associatedEntity/telecom	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Practitioner > <b>address</b>	Address(es) of the practitioner that are not role specific (typically home address). Work addresses are not typically entered in this property as they are usually role dependent.	0..*	<a href="#">Address</a>	participant[gen_prac]/associatedEntity/addr	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Practitioner > <b>gender</b>	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <b>birthDate</b>	The date of birth for the practitioner.	0..1	<a href="#">date</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <b>qualification</b>	Qualifications obtained by training and certification.	0..*	<a href="#">BackboneElement</a>	See: instantiation choices	<p>It is possible that the qualification may be able to be captured as a complex structure or as a text list.</p> <p><b>instantiation choices:</b></p> <p>If the qualification or list of qualifications is the result of capturing a text field then qualification is expected to be instantiated as ext:asQualifications/@classCode="QUAL". The common pattern <a href="#">Qualification</a> <b>SHALL</b> be applied.</p> <p>If more information can be captured than a narrative list then qualification is expected to be instantiated as ClinicalDocument/component/structuredBody/component[admin_obs]/section/ext:coverage2[prac_qual] and <b>SHALL</b> conform to the template defined in <a href="#">ext:coverage2 (Practitioner qualification)</a>.</p>
Practitioner > <b>communication</b>	A language the practitioner is able to use in patient communication.	0..*	<a href="#">CodeableConcept</a>	participant[gen_prac]/associatedEntity/associatedPerson/ext:languageCommunication	The common pattern <a href="#">Language Communication</a> <b>SHALL</b> be applied.

## 8.7 participant (author Base Organization)

This template is referenced by [observation \(Assertion of No Relevant Finding\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements			
<b>Organization</b>	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking element	<a href="#">Organization</a>	<b>participant[aut]</b>	Organization <b>SHALL</b> have at least:
				<b>participant[aut]/@typeCode="AUT"</b>	<ul style="list-style-type: none"> <li>• identifier (<b>participant[aut]/participantRole/scopingEntity/ext:asEntityIdentifier</b>), or</li> <li>• name (<b>participant[aut]/participantRole/scopingEntity/ext:name</b>)</li> </ul>
				<b>participant[aut]/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>participant[aut]/templateId/@root="1.2.36.1.2001.1001.102.101.100088"</b>	
				<b>participant[aut]/participantRole</b>	If participantRole/@classCode is present, it <b>SHALL</b> be "ASSIGNED".
				<b>participant[aut]/participantRole/id</b>	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
				<b>participant[aut]/participantRole/scopingEntity</b>	
				<b>participant[aut]/participantRole/scopingEntity/@classCode="ORG"</b>	
Organization > <b>identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	<a href="#">Identifier</a>	<b>participant[aut]/participantRole/scopingEntity/ext:asEntityIdentifier</b>	When sending to the My Health Record, an HPI-O is expected.  The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied.  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Organization > <b>active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Organization > <b>type</b>	The kind(s) of organization that this is.	0..*	<a href="#">CodeableConcept</a>	<b>participant[aut]/participantRole/code</b>	In CDA the maximum occurrences of participantRole/code is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1.  <a href="#">code/originalText</a> or <a href="#">code/@displayName</a> <b>SHALL</b> be included.  <a href="#">OrganizationType (example)</a>
Organization > <b>name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	<b>participant[aut]/participantRole/scopingEntity/ext:name[org_name]</b>	In CDA name and alias are represented by scopingEntity/name.
Organization > <b>alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	<b>participant[aut]/participantRole/scopingEntity/ext:name[alias]</b>	In CDA name and alias are represented by scopingEntity/name.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	participant[aut]/participantRole/ <b>telecom</b>	telecom/@use <a href="#">Organization Telecom Use HL7 V3 (required)</a> <sup>1</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	participant[aut]/participantRole/ <b>addr</b>	addr/@use <a href="#">Organization Address Use HL7 V3 (required)</a> <sup>2</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference</a> (Base Organization)	participant[aut]/participantRole/scopingEntity/ <b>ext:asOrganizationPartOf</b>	Organization partOf <b>SHALL</b> have at least: <ul style="list-style-type: none"><li>• an identifier (<b>ext:asOrganizationPartOf/ext:whiteEntity/ext:asEntityIdentifier</b>), or</li><li>• a name (<b>ext:asOrganizationPartOf/ext:whiteEntity/ext:name</b>)</li></ul>
				participant[aut]/participantRole/scopingEntity/ <b>ext:asOrganizationPartOf/ext:whiteEntity</b>	
				participant[aut]/participantRole/scopingEntity/ <b>ext:asOrganizationPartOf/ext:whiteEntity/ext:id</b>	<b>id</b> @root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
				participant[aut]/participantRole/scopingEntity/ <b>ext:asOrganizationPartOf/ext:whiteEntity/ext:code</b>	In this template the cardinality of <b>ext:whiteEntity/ext:code</b> <b>SHALL</b> be interpreted as 0..1.  <b>ext:code/originalText</b> or <b>ext:code/displayName</b> <b>SHALL</b> be included.  <a href="#">OrganizationType (example)</a>
				participant[aut]/participantRole/scopingEntity/ <b>ext:asOrganizationPartOf/ext:whiteEntity/ext:name</b>	In this template the cardinality of <b>ext:whiteEntity/ext:name</b> <b>SHALL</b> be interpreted as 0..*.
				participant[aut]/participantRole/scopingEntity/ <b>ext:asOrganizationPartOf/ext:whiteEntity/ext:telecom</b>	In this template the cardinality of <b>ext:whiteEntity/ext:telecom</b> <b>SHALL</b> be interpreted as 0..*.  ext:telecom/@use <a href="#">Organization Telecom Use HL7 V3 (required)</a> <sup>3</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
				participant[aut]/participantRole/scopingEntity/ <b>ext:asOrganizationPartOf/ext:whiteEntity/ext:addr</b>	In this template the cardinality of <b>ext:whiteEntity/ext:addr</b> <b>SHALL</b> be interpreted as 0..*.  ext:addr/@use <a href="#">Organization Address Use HL7 V3 (required)</a> <sup>4</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
				participant[aut]/participantRole/scopingEntity/ <b>ext:asOrganizationPartOf/ext:whiteEntity/ext:asEntityIdentifier</b>	In this template the cardinality of <b>ext:whiteEntity/ext:asEntityIdentifier</b> <b>SHALL</b> be interpreted as 0..*.  The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>		Context: /ClinicalDocument/			
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	0..*	<b>BackboneElement</b>	<b>participant[org_contact]</b>	participant[org_contact] SHALL conform to the template defined in <a href="#">participant (Organization contact)</a> .

<sup>1</sup>This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

<sup>2</sup>This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

<sup>3</sup>This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

<sup>4</sup>This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

## 8.8 author (PractitionerRole with Practitioner with Mandatory Identifier)

This template is referenced by [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#), and [act \(List of Medicine Items with Change Information Authored by Practitioner\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements			
PractitionerRole	A specific set of Roles/Locations/specialties/services that a practitioner may perform at an organization for a period of time.	Cardinality comes from linking element	<a href="#">PractitionerRole</a>	<b>author</b>	
				<b>author/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>author/templateId/@root="1.2.36.1.2001.1001.102.101.100006"</b>	
				<b>author/assignedAuthor</b>	
				<b>author/assignedAuthor/id</b>	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
PractitionerRole > <b>identifier</b>	Business identifiers for practitioner in a role.	0..*	<a href="#">Identifier</a>	author/assignedAuthor/assignedPerson/ <b>ext:asEntityIdentifier</b>	In CDA the identifier for both PractitionerRole and Practitioner for an author participation are included in assignedPerson/ext:asEntityIdentifier.  When sending to the My Health Record, an HPI-I is expected.  The cardinality of ext:asEntityIdentifier <b>SHALL</b> be interpreted as 1..*.  The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied.  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
PractitionerRole > <b>active</b>	Whether this practitioner's record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > <b>period</b>	The period during which the person is authorized to act as a practitioner in these role(s) for the organization.	0..1	<a href="#">Period</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > <b>practitioner</b>	Practitioner that is able to provide the defined services for the organisation.	1..1	<a href="#">Reference</a> (Practitioner with Mandatory Identifier)	author/assignedAuthor/ <b>assignedPerson</b>	assignedPerson <b>SHALL</b> conform to the template defined in <a href="#">assignedPerson (Practitioner with Mandatory Identifier)</a> .
PractitionerRole > <b>organization</b>	The organization where the Practitioner performs the roles associated.	0..1	<a href="#">Reference</a> (Base Organization)	author/assignedAuthor/ <b>representedOrganization</b>	representedOrganization <b>SHALL</b> conform to the template defined in <a href="#">representedOrganization (Base Organization)</a> .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
PractitionerRole > code	Roles which this practitioner is authorized to perform for the organization.	0..*	<a href="#">CodeableConcept</a>	author/assignedAuthor/code	In CDA the maximum occurrences of assignedAuthor/code is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1.  A code equivalent to the provider's professional role, e.g. 159011008 [Community pharmacist] is expected.  code/originalText or code/@displayName <b>SHALL</b> be included.  <a href="#">Australian and New Zealand Standard Classification of Occupations (preferred)</a> or <a href="#">Practitioner Role (preferred)</a> <sup>1</sup>
PractitionerRole > specialty	Specific specialty of the practitioner.	0..*	<a href="#">CodeableConcept</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > location	The location(s) at which this practitioner provides care.	0..*	<a href="#">Reference(Location)</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > healthcareService	The list of healthcare services that this worker provides for this role's Organization/Location(s).	0..*	<a href="#">Reference(Health-careService)</a>	n/a	Not currently mapped to CDA. See <a href="#">Known issues</a> .
PractitionerRole > telecom	Contact details that are specific to the role/location/service.	0..*	<a href="#">ContactPoint</a>	author/assignedAuthor/telecom	In CDA the telecom for both PractitionerRole and Practitioner for an author participation are included in assignedAuthor/telecom.  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
PractitionerRole > availableTime	A collection of times that the Service Site is available.	0..*	<a href="#">BackboneElement</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > notAvailable	The HealthcareService is not available during this period of time due to the provided reason.	0..*	<a href="#">BackboneElement</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > availabilityExceptions	A description of site availability exceptions, e.g. public holiday availability. Succinctly describing all possible exceptions to normal site availability as details in the available Times and not available Times.	0..1	<a href="#">string</a>	n/a	This logical element has no mapping to CDA.

<sup>1</sup>Note: The source representation of this terminology binding on code in PractitionerRole with Practitioner with Mandatory Identifier [DH2020I] is as an optional slice on the [coding](#) part of the code element. In the representation of the model presented in this specification it is normalised as a set of preferred bindings.

## 8.9 author (Base Patient)

This template is referenced by [observation \(Summary Statement of Allergy or Intolerance\)](#), and [observation \(Assertion of No Relevant Finding\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements			
<b>Patient</b>	Demographics and other administrative information about an individual receiving care or other health-related services.	Cardinality comes from linking element	<a href="#">Patient</a>	<b>author</b>	Patient <b>SHALL</b> have at least: <ul style="list-style-type: none"> <li>name (author/assignedAuthor/assignedPerson/name), or</li> <li>identifier (author/assignedAuthor/assignedPerson/ext:asEntity/identifier)</li> </ul>
				<b>author/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>author/templateId/@root="1.2.36.1.2001.1001.102.101.100084"</b>	
				<b>author/assignedAuthor</b>	
				<b>author/assignedAuthor/id</b>	author (patient) is represented in CDA by an author with the same id as the patient that is the subject of this document.  This id <b>SHALL</b> hold the same value as patientRole/id.
				<b>author/assignedAuthor/code</b>	
				<b>author/assignedAuthor/code/@code="ONESELF"</b>	
				<b>author/assignedAuthor/code/@codeSystem="2.16.840.1.113883.5.111"</b>	<a href="#">v3 Code System RoleCode</a>
				<b>author/assignedAuthor/assignedPerson</b>	
Patient > <b>birthPlace</b>	The registered place of birth of the patient. A system may use the address.text if they don't store the birthPlace address in discrete elements.	0..1	<a href="#">Address</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/birthPlace/place/addr.
Patient > <b>indigenous-status</b>	National Health Data Dictionary (NHDD) based indigenous status for a patient.	0..1	<a href="#">Coding</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ethnicGroupCode.
Patient > <b>closing-the-gap-registration</b>	Indication for eligibility for the Closing the Gap program.	0..1	<a href="#">boolean</a>	n/a	Not mapped directly for this participant; this is implicit in entry[close_gap]/observation/value.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > <b>patient-mothersMaiden-Name</b>	Mother's maiden (unmarried) name, commonly collected to help verify patient identity.	0..1	<a href="#">string</a>	n/a	Not mapped directly for this participant; this is implicit in entry[mothers_name]/observation/value.
Patient > <b>identifier</b>	An identifier for this patient.	0..*	<a href="#">Identifier</a>	author/assignedAuthor/assignedPerson/ext:asEntityIdentifier	When sending to the My Health Record, an IHI is expected. The common pattern <a href="#">Entity Identifier</a> SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Patient > <b>active</b>	Whether this patient record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Patient > <b>name</b>	A name associated with the individual.	0..*	Base HumanName	author/assignedAuthor/assignedPerson/ <b>name</b>	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .
Patient > <b>telecom</b>	A contact detail (e.g. a telephone number or an email address) by which the individual may be contacted.	0..*	<a href="#">ContactPoint</a>	author/assignedAuthor/ <b>telecom</b>	When sending to the My Health Record, telecom is not expected to be sent. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Patient > <b>gender</b>	Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	author/assignedAuthor/assignedPerson/ext:administrativeGenderCode	<a href="#">AdministrativeGender</a> (required) <sup>1</sup>
Patient > <b>birthDate</b>	The date of birth for the individual.	0..1	<a href="#">date</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/birthTime.
Patient > <b>deceased[x]</b>	Indicates if the individual is deceased or not. Deceased date accuracy indicator is optional.	0..1	<a href="#">boolean</a>   <a href="#">dateTime</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ext:deceasedTime or patientRole/patient/ext:deceasedInd.
Patient > <b>address</b>	Addresses for the individual.	0..*	<a href="#">Address</a>	author/assignedAuthor/ <b>addr</b>	When sending to the My Health Record, address is not expected to be sent. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Patient > <b>maritalStatus</b>	This field contains a patient's most recent marital (civil) status.	0..1	<a href="#">CodeableConcept</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/maritalStatusCode.
Patient > <b>multipleBirth[x]</b>	Indicates whether the patient is part of a multiple (bool) or indicates the actual birth order (integer).	0..1	<a href="#">boolean</a>   <a href="#">integer</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ext:multipleBirthInd or patientRole/patient/multipleBirthOrderNumber.
Patient > <b>contact</b>	A contact party (e.g. guardian, partner, friend) for the patient.	0..*	<a href="#">BackboneElement</a>	n/a	This logical element has no mapping to CDA.
Patient > <b>communication</b>	Languages which may be used to communicate with the patient about his or her health.	0..*	<a href="#">BackboneElement</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/languageCommunication.
Patient > <b>generalPractitioner</b>	Patient's nominated care provider.	0..*	<a href="#">Reference</a> (Base Organization   Base Practitioner)	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > managingOrganization	Organization that is the custodian of the patient record.	0..1	<a href="#">Reference</a> (Base Organization)	n/a	This logical element has no mapping to CDA.

<sup>1</sup>This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

## 8.10 author (Base PractitionerRole)

This template is referenced by [observation \(Summary Statement of Allergy or Intolerance\)](#), and [observation \(Assertion of No Relevant Finding\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
PractitionerRole	A specific set of Roles/Locations/specialties/services that a practitioner may perform at an organization for a period of time.	Cardinality comes from linking element	<a href="#">PractitionerRole</a>	author	PractitionerRole <b>SHALL</b> have at least: <ul style="list-style-type: none"><li>• practitioner role or practitioner identifier (author/assignedAuthor/assignedPerson/ext:asEntityIdentifier), or</li><li>• practitioner name (author/assignedAuthor/assignedPerson/name)</li></ul>
				author/ <b>templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				author/templateId/@root="1.2.36.1.2001.1001.102.101.100085"	
				author/assignedAuthor	
				author/assignedAuthor/id	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
PractitionerRole > identifier	Business identifiers for practitioner in a role.	0..*	<a href="#">Identifier</a>	author/assignedAuthor/assignedPerson/ext:asEntityIdentifier	In CDA the identifier for both PractitionerRole and Practitioner for an author participation are included in assignedPerson/ext:asEntityIdentifier.  When sending to the My Health Record, an HPI-I is expected.  The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied.  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
PractitionerRole > active	Whether this practitioner's record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > period	The period during which the person is authorized to act as a practitioner in these role(s) for the organization.	0..1	<a href="#">Period</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > practitioner	Practitioner that is able to provide the defined services for the organization.	0..1	<a href="#">Reference</a> (Base Practitioner)	author/assignedAuthor/assignedPerson	assignedPerson <b>SHALL</b> conform to the template defined in <a href="#">assignedPerson (Base Practitioner)</a> .
PractitionerRole > organization	The organization where the Practitioner performs the roles associated.	0..1	<a href="#">Reference</a> (Base Organization)	author/assignedAuthor/representedOrganization	representedOrganization <b>SHALL</b> conform to the template defined in <a href="#">representedOrganization (Base Organization)</a> .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
PractitionerRole > <b>code</b>	Roles which this practitioner is authorized to perform for the organization.	0..*	<a href="#">CodeableConcept</a>	author/assignedAuthor/code	In CDA the maximum occurrences of assignedAuthor/code is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1.  A code equivalent to the provider's professional role, e.g. 159011008  Community pharmacist  is expected.  <a href="#">Australian and New Zealand Standard Classification of Occupations (preferred)</a> or <a href="#">Practitioner Role (preferred)</a> <sup>1</sup>
PractitionerRole > <b>specialty</b>	Specific specialty of the practitioner.	0..*	<a href="#">CodeableConcept</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > <b>location</b>	The location(s) at which this practitioner provides care.	0..*	<a href="#">Reference(Location)</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > <b>healthcareService</b>	The list of healthcare services that this worker provides for this role's Organization/Location(s).	0..*	<a href="#">Reference(Health-careService)</a>	n/a	Not currently mapped to CDA. See <a href="#">Known issues</a> .
PractitionerRole > <b>telecom</b>	Contact details that are specific to the role/location/service.	0..*	<a href="#">ContactPoint</a>	author/assignedAuthor/telecom	In CDA the telecom for both PractitionerRole and Practitioner for an author participation are included in assignedAuthor/telecom.  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
PractitionerRole > <b>availableTime</b>	A collection of times that the Service Site is available.	0..*	<a href="#">BackboneElement</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > <b>notAvailable</b>	The HealthcareService is not available during this period of time due to the provided reason.	0..*	<a href="#">BackboneElement</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > <b>availabilityExceptions</b>	A description of site availability exceptions, e.g. public holiday availability. Succinctly describing all possible exceptions to normal site availability as details in the available Times and not available Times.	0..1	<a href="#">string</a>	n/a	This logical element has no mapping to CDA.

<sup>1</sup>Note: The source representation of this terminology binding on code in PractitionerRole with Practitioner with Mandatory Identifier [DH2020I] is as an optional slice on the [coding](#) part of the code element. In the representation of the model presented in this specification it is normalised as a set of preferred bindings.

## 8.11 author (Base RelatedPerson)

This template is referenced by [observation \(Summary Statement of Allergy or Intolerance\)](#), and [observation \(Assertion of No Relevant Finding\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
RelatedPerson	Information about a person that is involved in the care for a patient, but who is not the target of healthcare, nor has a formal responsibility in the care process.	Cardinality comes from linking elements	<a href="#">RelatedPerson</a>	author	RelatedPerson <b>SHALL</b> have at least: <ul style="list-style-type: none"><li>name (author/assignedAuthor/assignedPerson/name), or</li><li>identifier (author/assignedAuthor/assignedPerson/ext:asEntityIdentifier), or</li><li>relationship (author/assignedAuthor/assignedPerson/ext:personalRelationship)</li></ul>
				author/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				author/templateId/@root="1.2.36.1.2001.1001.102.101.100083"	
				author/assignedAuthor	
				author/assignedAuthor/id	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
				author/assignedAuthor/code	
				author/assignedAuthor/code/@code="AGNT"	
				author/assignedAuthor/code/@codeSystem="2.16.840.1.113883.5.110"	<a href="#">v3 Code System RoleClass</a>
				author/assignedAuthor/assignedPerson	
RelatedPerson > identifier	Identifier for a person within a particular scope.	0..*	<a href="#">Identifier</a>	author/assignedAuthor/assignedPerson/ext:asEntityIdentifier	When sending to the My Health Record, an IHI is expected. The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
RelatedPerson > active	Whether this related person record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
RelatedPerson > <b>patient</b>	The patient this person is related to.	1..1	<a href="#">Reference</a> (Base Patient)	n/a	Not mapped directly for this participant; this is implicit in patientRole.
RelatedPerson > <b>relationship</b>	The nature of the relationship between a patient and the related person.	0..1	<a href="#">CodeableConcept</a>	author/assignedAuthor/assignedPerson/ext:personalRelationship	The common pattern <a href="#">Personal Relationship</a> SHALL be applied.
				author/assignedAuthor/assignedPerson/ext:personalRelationship/ext:code	ext:code/originalText or ext:code/@displayName SHALL be included. <a href="#">Related Person Relationship Type (extensible)</a>
RelatedPerson > <b>name</b>	A name associated with the person.	0..*	Base HumanName	author/assignedAuthor/assignedPerson/name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .
RelatedPerson > <b>telecom</b>	A contact detail for the person, e.g. a telephone number or an email address.	0..*	<a href="#">ContactPoint</a>	author/assignedAuthor/telecom	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
RelatedPerson > <b>gender</b>	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	author/assignedAuthor/assignedPerson/ext:administrativeGenderCode	<a href="#">AdministrativeGender (required)</a> <sup>1</sup>
RelatedPerson > <b>birthDate</b>	The date on which the related person was born.	0..1	<a href="#">date</a>	author/assignedAuthor/assignedPerson/ext:birthTime	
RelatedPerson > <b>address</b>	Address where the related person can be contacted or visited.	0..*	<a href="#">Address</a>	author/assignedAuthor/addr	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address   AU Base Address</a> .
RelatedPerson > <b>period</b>	The period of time that this relationship is considered to be valid. If there are no dates defined, then the interval is unknown.	0..1	<a href="#">Period</a>	n/a	Not mapped separately, implicit in ext:personalRelationship/ext:effectiveTime.

<sup>1</sup>This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

## 8.12 custodian (Organization with Mandatory Identifier)

This template is referenced by [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: /ClinicalDocument/	
Organization	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking element	<a href="#">Organization</a>	custodian	
				custodian/ <a href="#">templateId</a>	The use of templateId signals the imposition of a set of template-defined constraints.
				custodian/templateId/@root="1.2.36.1.2001.1001.102.101.100002"	
				custodian/assignedCustodian	
				custodian/assignedCustodian/representedCustodianOrganization	
				custodian/assignedCustodian/representedCustodianOrganization/id	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
Organization > <b>identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	1..*	<a href="#">Identifier</a>	custodian/assignedCustodian/representedCustodianOrganization/ext:asEntityIdentifier	When sending to the My Health Record, an HPI-O is expected.  The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied.  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Organization > <b>active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Organization > <b>type</b>	The kind(s) of organization that this is.	0..*	<a href="#">CodeableConcept</a>	n/a	This logical element has no mapping to CDA.
Organization > <b>name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	custodian/assignedCustodian/representedCustodianOrganization/name	
Organization > <b>alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	custodian/assignedCustodian/representedCustodianOrganization/ <b>telecom</b>	In CDA the maximum occurrences of representedCustodian-Organization/telecom is 1. Although the model indicates that telecom is 0.. *, in a CDA implementation this is limited to 0..1.  telecom/@use <a href="#">Organization Telecom Use HL7 V3 (required)</a> <sup>1</sup> .  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	custodian/assignedCustodian/representedCustodianOrganization/ <b>addr</b>	addr/@use <a href="#">Organization Address Use HL7 V3 (required)</a> <sup>2</sup> .  In CDA the maximum occurrences of representedCustodian-Organization/addr is 1. Although the model indicates that address is 0.. *, in a CDA implementation this is limited to 0..1.  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address   AU Base Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference</a> (Base Organization)	n/a	This logical element has no mapping to CDA.
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	0..*	<a href="#">BackboneElement</a>	<b>participant</b> [org_contact]	participant[org_contact] SHALL conform to the template defined in <a href="#">participant (Organization contact)</a> .

<sup>1</sup>This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

<sup>2</sup>This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

## 8.13 informationRecipient (Base Patient)

This template is referenced by [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements		Context: /ClinicalDocument/			
Patient	Demographics and other administrative information about an individual receiving care or other health-related services.	Cardinality comes from linking element	<a href="#">Patient</a>	informationRecipient	Patient <b>SHALL</b> have at least: <ul style="list-style-type: none"><li>name (informationRecipient/intendedRecipient/informationRecipient/name), or</li><li>identifier (informationRecipient/intendedRecipient/informationRecipient/ext:asEntityIdentifier)</li></ul>
				informationRecipient/@typeCode	This CDA schema element is of type CodedSimpleValue (CS). <a href="#">Information Recipient Type HL7 v3 (required)</a>
				informationRecipient/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				informationRecipient/templateId/@root="1.2.36.1.2001.1001.102.101.100022"	
				informationRecipient/intendedRecipient	If intendedRecipient/@classCode is present, it <b>SHALL</b> be "AS-SIGNED".
				informationRecipient/intendedRecipient/id	information-recipient (patient) is represented in CDA by an information recipient with the same id as the patient that is the subject of this document.  This id <b>SHALL</b> hold the same value as patientRole/id.
				informationRecipient/intendedRecipient/ext:code	
				informationRecipient/intendedRecipient/ext:code/@code="ONESELF"	
				informationRecipient/intendedRecipient/ext:code/@codeSystem="2.16.840.1.113883.5.111"	<a href="#">v3 Code System RoleCode</a>
				informationRecipient/intendedRecipient/informationRecipient	
Patient > birthPlace	The registered place of birth of the patient. A system may use the address.text if they don't store the birthPlace address in discrete elements.	0..1	<a href="#">Address</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/birthPlace/place/addr.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > <b>indigenous-status</b>	National Health Data Dictionary (NHDD) based indigenous status for a patient.	0..1	<a href="#">Coding</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ethnicGroupCode.
Patient > <b>closing-the-gap-registration</b>	Indication for eligibility for the Closing the Gap program.	0..1	<a href="#">boolean</a>	n/a	Not mapped directly for this participant; this is implicit in entry[close_gap]/observation/value.
Patient > <b>patient-mothersMaidenName</b>	Mother's maiden (unmarried) name, commonly collected to help verify patient identity.	0..1	<a href="#">string</a>	n/a	Not mapped directly for this participant; this is implicit in entry[mothers_name]/observation/value.
Patient > <b>identifier</b>	An identifier for this patient.	0..*	<a href="#">Identifier</a>	informationRecipient/intendedRecipient/informationRecipient/ext:asEntityIdentifier	The common pattern <a href="#">Entity Identifier</a> SHALL be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Patient > <b>active</b>	Whether this patient record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Patient > <b>name</b>	A name associated with the individual.	0..*	Base HumanName	informationRecipient/intendedRecipient/informationRecipient/name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .
Patient > <b>telecom</b>	A contact detail (e.g. a telephone number or an email address) by which the individual may be contacted.	0..*	<a href="#">ContactPoint</a>	informationRecipient/intendedRecipient/telecom	When sending to the My Health Record, telecom is not expected to be sent. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Patient > <b>gender</b>	Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	informationRecipient/intendedRecipient/informationRecipient/ext:administrativeGenderCode	<a href="#">AdministrativeGender (required)</a> <sup>1</sup>
Patient > <b>birthDate</b>	The date of birth for the individual.	0..1	<a href="#">date</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/birthTime.
Patient > <b>deceased[x]</b>	Indicates if the individual is deceased or not. Deceased date accuracy indicator is optional.	0..1	<a href="#">boolean</a>   <a href="#">dateTime</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ext:deceasedTime or patientRole/patient/ext:deceasedInd.
Patient > <b>address</b>	Addresses for the individual.	0..*	<a href="#">Address</a>	informationRecipient/intendedRecipient/addr	When sending to the My Health Record, address is not expected to be sent. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Patient > <b>maritalStatus</b>	This field contains a patient's most recent marital (civil) status.	0..1	<a href="#">CodeableConcept</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/maritalStatusCode.
Patient > <b>multipleBirth[x]</b>	Indicates whether the patient is part of a multiple (bool) or indicates the actual birth order (integer).	0..1	<a href="#">boolean</a>   <a href="#">integer</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ext:multipleBirthInd or patientRole/patient/multipleBirthOrderNumber.
Patient > <b>contact</b>	A contact party (e.g. guardian, partner, friend) for the patient.	0..*	<a href="#">BackboneElement</a>	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > <b>communication</b>	Languages which may be used to communicate with the patient about his or her health.	0..*	<a href="#">BackboneElement</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/languageCommunication.
Patient > <b>generalPractitioner</b>	Patient's nominated care provider.	0..*	<a href="#">Reference</a> (Base Organization   Base Practitioner)	n/a	This logical element has no mapping to CDA.
Patient > <b>managingOrganization</b>	Organization that is the custodian of the patient record.	0..1	<a href="#">Reference</a> (Base Organization)	n/a	This logical element has no mapping to CDA.

<sup>1</sup>This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

## 8.14 informationRecipient (Base PractitionerRole)

This template is referenced by [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>		Context: /ClinicalDocument/			
PractitionerRole	A specific set of Roles/Locations/specialties/services that a practitioner may perform at an organization for a period of time.	Cardinality comes from linking element	<a href="#">PractitionerRole</a>	informationRecipient	PractitionerRole <b>SHALL</b> have at least: <ul style="list-style-type: none"> <li>• practitioner role or practitioner identifier (informationRecipient/intendedRecipient/informationRecipient/ext:asEntityIdentifier), or</li> <li>• practitioner name (informationRecipient/intendedRecipient/informationRecipient/name)</li> </ul>
				informationRecipient/@typeCode	This CDA schema element is of type CodedSimpleValue (CS). <a href="#">Information Recipient Type HL7 v3 (required)</a>
				informationRecipient/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				informationRecipient/templateId/@root="1.2.36.1.2001.1001.102.101.100078"	If intendedRecipient/@classCode is present, it <b>SHALL</b> be "ASSIGNED".
				informationRecipient/intendedRecipient	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
PractitionerRole > <b>identifier</b>	Business identifiers for practitioner in a role.	0..*	<a href="#">Identifier</a>	informationRecipient/intendedRecipient/informationRecipient/ext:asEntityIdentifier	In CDA the identifier for both PractitionerRole and Practitioner for an author participation are included in assignedPerson/ext:asEntityIdentifier.  The common pattern <b>Entity Identifier</b> <b>SHALL</b> be applied.  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
PractitionerRole > <b>period</b>	The period during which the person is authorized to act as a practitioner in these role(s) for the organization.	0..1	<a href="#">Period</a>	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
PractitionerRole > practitioner	Practitioner that is able to provide the defined services for the organization.	0..1	<a href="#">Reference</a> (Base Practitioner)	informationRecipient/intendedRecipient/informationRecipient	informationRecipient <b>SHALL</b> conform to the template defined in <a href="#">informationRecipient (Base Practitioner)</a> .
PractitionerRole > organization	The organization where the Practitioner performs the roles associated.	0..1	<a href="#">Reference</a> (Base Organization)	informationRecipient/intendedRecipient/receivedOrganization	receivedOrganization <b>SHALL</b> conform to the template defined in <a href="#">receivedOrganization (Base Organization)</a> .
PractitionerRole > code	Roles which this practitioner is authorized to perform for the organization.	0..*	<a href="#">CodeableConcept</a>	informationRecipient/intendedRecipient/ext:code	In CDA the maximum occurrences of intendedRecipient/ext:code is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1.  <a href="#">Australian and New Zealand Standard Classification of Occupations (preferred)</a> or <a href="#">Practitioner Role (preferred)</a> <sup>1</sup>
PractitionerRole > specialty	Specific specialty of the practitioner.	0..*	<a href="#">CodeableConcept</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > location	The location(s) at which this practitioner provides care.	0..*	<a href="#">Reference(Location)</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > healthcareService	The list of healthcare services that this worker provides for this role's Organization/Location(s).	0..*	<a href="#">Reference(Health-careService)</a>	n/a	Not currently mapped to CDA. See <a href="#">Known issues</a> .
PractitionerRole > telecom	Contact details that are specific to the role/location/service.	0..*	<a href="#">ContactPoint</a>	informationRecipient/intendedRecipient/telecom	In CDA the telecom for both PractitionerRole and Practitioner for an informationRecipient participation are included in intendedRecipient/telecom.  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
PractitionerRole > availableTime	A collection of times that the Service Site is available.	0..*	<a href="#">BackboneElement</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > notAvailable	The HealthcareService is not available during this period of time due to the provided reason.	0..*	<a href="#">BackboneElement</a>	n/a	This logical element has no mapping to CDA.
PractitionerRole > availabilityExceptions	A description of site availability exceptions, e.g. public holiday availability. Succinctly describing all possible exceptions to normal site availability as details in the available Times and not available Times.	0..1	<a href="#">string</a>	n/a	This logical element has no mapping to CDA.

<sup>1</sup>Note: The source representation of this terminology binding on code in [\[DH2020I\]](#) is as an optional slice on the [coding](#) part of the code element. In the representation of the model presented in this specification it is normalised as a set of preferred bindings.

## 8.15 informationRecipient (Base RelatedPerson)

This template is referenced by [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>		Context: /ClinicalDocument/			
RelatedPerson	Information about a person that is involved in the care for a patient, but who is not the target of healthcare, nor has a formal responsibility in the care process.	Cardinality comes from linking element	<a href="#">RelatedPerson</a>	informationRecipient	RelatedPerson <b>SHALL</b> have at least: <ul style="list-style-type: none"> <li>• name (informationRecipient/intendedRecipient/informationRecipient/name), or</li> <li>• identifier (informationRecipient/intendedRecipient/informationRecipient/ext:asEntityIdentifier), or</li> <li>• relationship (informationRecipient/intendedRecipient/informationRecipient/ext:personalRelationship)</li> </ul>
				informationRecipient/@typeCode	This CDA schema element is of type CodedSimpleValue (CS). <a href="#">Information Recipient Type HL7 v3 (required)</a>
				informationRecipient/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				informationRecipient/intendedRecipient/@root="1.2.36.1.2001.1001.102.101.100021"	
				informationRecipient/intendedRecipient	If intendedRecipient/@classCode is present, it <b>SHALL</b> be "ASSIGNED".
				informationRecipient/intendedRecipient/id	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
				informationRecipient/intendedRecipient/informationRecipient	
RelatedPerson > identifier	Identifier for a person within a particular scope.	0..*	<a href="#">Identifier</a>	informationRecipient/intendedRecipient/informationRecipient/ext:asEntityIdentifier	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied.  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
RelatedPerson > active	Whether this related person record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
RelatedPerson > <b>patient</b>	The patient this person is related to.	1..1	<a href="#">Reference</a> (Base Patient)	n/a	Not mapped directly for this participant; this is implicit in patientRole.
RelatedPerson > <b>relationship</b>	The nature of the relationship between a patient and the related person.	0..1	<a href="#">CodeableConcept</a>	informationRecipient/intendedRecipient/informationRecipient/ <a href="#">ext:personalRelationship</a>	The common pattern <a href="#">Personal Relationship</a> SHALL be applied.
				informationRecipient/intendedRecipient/informationRecipient/ext:personalRelationship/ <a href="#">ext:code</a>	ext:code/originalText or ext:code/@displayName SHALL be included. <a href="#">Related Person Relationship Type (extensible)</a>
RelatedPerson > <b>name</b>	A name associated with the person.	0..*	Base HumanName	informationRecipient/intendedRecipient/informationRecipient/ <a href="#">name</a>	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .
RelatedPerson > <b>telecom</b>	A contact detail for the person, e.g. a telephone number or an email address.	0..*	<a href="#">ContactPoint</a>	informationRecipient/intendedRecipient/ <a href="#">telecom</a>	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
RelatedPerson > <b>gender</b>	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	informationRecipient/intendedRecipient/informationRecipient/ <a href="#">ext:administrativeGenderCode</a>	<a href="#">AdministrativeGender (required)</a> <sup>1</sup>
RelatedPerson > <b>birthDate</b>	The date on which the related person was born.	0..1	<a href="#">date</a>	n/a	This logical element has no mapping to CDA.
RelatedPerson > <b>address</b>	Address where the related person can be contacted or visited.	0..*	<a href="#">Address</a>	informationRecipient/intendedRecipient/ <a href="#">addr</a>	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
RelatedPerson > <b>period</b>	The period of time that this relationship is considered to be valid. If there are no dates defined, then the interval is unknown.	0..1	<a href="#">Period</a>	n/a	Not mapped separately, implicit in ext:personalRelationship/ext:effectiveTime.

<sup>1</sup>This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

## 8.16 informationRecipient (Base Organization)

This template is referenced by [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>		Context: /ClinicalDocument/			
Organization	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking element	<a href="#">Organization</a>	informationRecipient/	Organization <b>SHALL</b> have at least: <ul style="list-style-type: none"> <li>• identifier (informationRecipient/intendedRecipient/receivedOrganization/ext:asEntityIdentifier), or</li> <li>• name (informationRecipient/intendedRecipient/receivedOrganization/name)</li> </ul>
				informationRecipient/@typeCode	This CDA schema element is of type CodedSimpleValue (CS). <a href="#">Information Recipient Type HL7 v3 (required)</a>
				informationRecipient/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				informationRecipient/templateId/@root="1.2.36.1.2001.1001.102.101.100023"	
				informationRecipient/intendedRecipient	If intendedRecipient/@classCode is present, it <b>SHALL</b> be "ASSIGNED".
				informationRecipient/intendedRecipient/id	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
				informationRecipient/intendedRecipient/receivedOrganization	
Organization > <b>identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	<a href="#">Identifier</a>	informationRecipient/intendedRecipient/receivedOrganization/ext:asEntityIdentifier	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Organization > <b>active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
Organization > <b>type</b>	The kind(s) of organization that this is.	0..*	<a href="#">CodeableConcept</a>	informationRecipient/intendedRecipient/ext:code	In CDA the maximum occurrences of intendedRecipient/ext:code is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1.  ext:code/originalText or ext:code/@displayName <b>SHALL</b> be included.  <a href="#">OrganizationType (example)</a>
Organization > <b>name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	informationRecipient/intendedRecipient/receivedOrganization/name[org_name]	In CDA name and alias are represented by receivedOrganization/name.
Organization > <b>alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	informationRecipient/intendedRecipient/receivedOrganization/name[alias]	In CDA name and alias are represented by receivedOrganization/name.
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	informationRecipient/intendedRecipient/telecom	telecom/@use <a href="#">Organization Telecom Use HL7 V3 (required)</a> <sup>1</sup> .  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	informationRecipient/intendedRecipient/addr	addr/@use <a href="#">Organization Address Use HL7 V3 (required)</a> <sup>2</sup> .  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address   AU Base Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference</a> (Base Organization)	informationRecipient/intendedRecipient/receivedOrganization/asOrganizationPartOf informationRecipient/intendedRecipient/receivedOrganization/asOrganizationPartOf/wholeOrganization	wholeOrganization <b>SHALL</b> conform to the template defined in <a href="#">wholeOrganization (Base Organization)</a> .
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	0..*	<a href="#">BackboneElement</a>	participant[org_contact]	participant[org_contact] <b>SHALL</b> conform to the template defined in <a href="#">participant (Organization contact)</a> .

<sup>1</sup>This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

<sup>2</sup>This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

## 8.17 informant (Base Patient)

This template is referenced by [substanceAdministration \(Medicine Item Statement\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements		Context: Comes from linking element			
<b>Patient</b>	Demographics and other administrative information about an individual receiving care or other health-related services.	Cardinality comes from linking element	<a href="#">Patient</a>	informant	Patient <b>SHALL</b> have at least: <ul style="list-style-type: none"> <li>• name (informant/assignedEntity/assignedPerson/name), or</li> <li>• identifier (informant/assignedEntity/assignedPerson/ext:asEntityIdentifier)</li> </ul>
				informant/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				informant/templateId/@root="1.2.36.1.2001.1001.102.101.100051"	
				informant/assignedEntity	
				informant/assignedEntity/id	informant (patient) is represented in CDA by an informant with the same id as the patient that is the subject of this document.  This id <b>SHALL</b> hold the same value as patientRole/id.
				informant/assignedEntity/code	
				informant/assignedEntity/code/@code="ONESELF"	
				informant/assignedEntity/code/@codeSystem="2.16.840.1.113883.5.111"	<a href="#">v3 Code System RoleCode</a>
				informant/assignedEntity/assignedPerson	
Patient > birthPlace	The registered place of birth of the patient. A system may use the address.text if they don't store the birthPlace address in discrete elements.	0..1	<a href="#">Address</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/birthplace/place/addr.
Patient > indigenous-status	National Health Data Dictionary (NHDD) based indigenous status for a patient.	0..1	<a href="#">Coding</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ethnicGroupCode.
Patient > closing-the-gap-registration	Indication for eligibility for the Closing the Gap program.	0..1	<a href="#">boolean</a>	n/a	Not mapped directly for this participant; this is implicit in entry[close_gap]/observation/value.

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
Patient > <b>patient-mothersMaid-enName</b>	Mother's maiden (unmarried) name, commonly collected to help verify patient identity.	0..1	<a href="#">string</a>	n/a	Not mapped directly for this participant; this is implicit in entry[mothers_name]/observation/value.
Patient > <b>identifier</b>	An identifier for this patient.	0..*	<a href="#">Identifier</a>	informant/assignedEntity/assignedPerson/ <a href="#">ext:asEntityIdentifier</a>	The common pattern <a href="#">Entity Identifier SHALL</a> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Patient > <b>active</b>	Whether this patient record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Patient > <b>name</b>	A name associated with the individual.	0..*	Base HumanName	informant/assignedEntity/assignedPerson/ <a href="#">name</a>	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .
Patient > <b>telecom</b>	A contact detail (e.g. a telephone number or an email address) by which the individual may be contacted.	0..*	<a href="#">ContactPoint</a>	informant/assignedEntity/ <a href="#">telecom</a>	When sending to the My Health Record, telecom is not expected to be sent. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Patient > <b>gender</b>	Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	informant/assignedEntity/assignedPerson/ <a href="#">ext:administrativeGenderCode</a>	<a href="#">AdministrativeGender (required)</a> <sup>1</sup>
Patient > <b>birthDate</b>	The date of birth for the individual.	0..1	<a href="#">date</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/birthTime.
Patient > <b>deceased[x]</b>	Indicates if the individual is deceased or not. Deceased date accuracy indicator is optional.	0..1	<a href="#">boolean</a>   <a href="#">dateTime</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ext:deceasedTime or patientRole/patient/ext:deceasedInd.
Patient > <b>address</b>	Addresses for the individual.	0..*	<a href="#">Address</a>	informant/assignedEntity/ <a href="#">addr</a>	When sending to the My Health Record, address is not expected to be sent. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Patient > <b>maritalStatus</b>	This field contains a patient's most recent marital (civil) status.	0..1	<a href="#">CodeableConcept</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/maritalStatusCode.
Patient > <b>multipleBirth[x]</b>	Indicates whether the patient is part of a multiple (bool) or indicates the actual birth order (integer).	0..1	<a href="#">boolean</a>   <a href="#">integer</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/ext:multipleBirthInd or patientRole/patient/multipleBirthOrderNumber.
Patient > <b>contact</b>	A contact party (e.g. guardian, partner, friend) for the patient.	0..*	<a href="#">BackboneElement</a>	n/a	This logical element has no mapping to CDA.
Patient > <b>communication</b>	Languages which may be used to communicate with the patient about his or her health.	0..*	<a href="#">BackboneElement</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient/languageCommunication.
Patient > <b>generalPractitioner</b>	Patient's nominated care provider.	0..*	<a href="#">Reference</a> (Base Organization   Base Practitioner)	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Patient > managingOrganization	Organization that is the custodian of the patient record.	0..1	<a href="#">Reference</a> (Base Organization)	n/a	This logical element has no mapping to CDA.

<sup>1</sup>This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

## 8.18 informant (Base RelatedPerson)

This template is referenced by [substanceAdministration \(Medicine Item Statement\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
<b>RelatedPerson</b>	Information about a person that is involved in the care for a patient, but who is not the target of healthcare, nor has a formal responsibility in the care process.	Cardinality comes from linking element	<a href="#">RelatedPerson</a>	informant	RelatedPerson <b>SHALL</b> have at least: <ul style="list-style-type: none"> <li>• name (informant/relatedEntity/relatedPerson/name), or</li> <li>• identifier (informant/relatedEntity/relatedPerson/ext:asEntityIdentifier), or</li> <li>• relationship (informant/relatedEntity/relatedPerson/ext:personalRelationship)</li> </ul>
				informant/ <b>templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				informant/templateId/@root="1.2.36.1.2001.1001.102.101.100052"	
				informant/ <b>relatedEntity</b>	
				informant/relatedEntity/@classCode="PRS"	
				informant/relatedEntity/ <b>code</b>	The cardinality of code <b>SHALL</b> be interpreted as 0..1.
<b>RelatedPerson &gt; identifier</b>	Identifier for a person within a particular scope.	0..*	<a href="#">Identifier</a>	informant/relatedEntity/relatedPerson/ext:asEntityIdentifier	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
				n/a	This logical element has no mapping to CDA.
<b>RelatedPerson &gt; active</b>	Whether this related person record is in active use.	0..1	<a href="#">boolean</a>	n/a	Not mapped directly for this participant; this is implicit in patientRole/patient.
<b>RelatedPerson &gt; patient</b>	The patient this person is related to.	1..1	<a href="#">Reference</a> (Base Patient)	n/a	The common pattern <a href="#">Personal Relationship</a> <b>SHALL</b> be applied.
<b>RelatedPerson &gt; relationship</b>	The nature of the relationship between a patient and the related person.	0..1	<a href="#">CodeableConcept</a>	informant/relatedEntity/relatedPerson/ext:personalRelationship	ext:code/originalText or ext:code/@displayName <b>SHALL</b> be included. <a href="#">Related Person Relationship Type (extensible)</a>
				informant/relatedEntity/relatedPerson/ext:personalRelationship/ext:code	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
RelatedPerson > <b>name</b>	A name associated with the person.	0..*	Base HumanName	informant/relatedEntity/relatedPerson/ <b>name</b>	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .
RelatedPerson > <b>telecom</b>	A contact detail for the person, e.g. a telephone number or an email address.	0..*	<a href="#">ContactPoint</a>	informant/relatedEntity/ <b>telecom</b>	
RelatedPerson > <b>gender</b>	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	informant/relatedEntity/relatedPerson/ext:administrativeGenderCode	<a href="#">AdministrativeGender (required)</a> <sup>1</sup>
RelatedPerson > <b>birthDate</b>	The date on which the related person was born.	0..1	<a href="#">date</a>	informant/relatedEntity/relatedPerson/ext:birthTime	
RelatedPerson > <b>address</b>	Address where the related person can be contacted or visited.	0..*	<a href="#">Address</a>	informant/relatedEntity/addr	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
RelatedPerson > <b>period</b>	The period of time that this relationship is considered to be valid. If there are no dates defined, then the interval is unknown.	0..1	<a href="#">Period</a>	n/a	Not mapped separately, implicit in ext:personalRelationship/ext:effectiveTime.

<sup>1</sup>This hyperlink resolves to the FHIR Release 4 description due to a technical defect in the FHIR STU3 description of this code system for OID-based systems.

## 8.19 informant (Base Practitioner)

This template is referenced by [substanceAdministration \(Medicine Item Statement\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
Practitioner	A person who is directly or indirectly involved in the provisioning of healthcare.	Cardinality comes from linking element	<a href="#">Practitioner</a>	informant	Practitioner <b>SHALL</b> have at least: <ul style="list-style-type: none"><li>• identifier (informant/assignedEntity/assignedPerson/ext:asEntityIdentifier), or</li><li>• name (informant/assignedEntity/assignedPerson/name)</li></ul>
				informant/ <b>templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				informant/templateId/@root="1.2.36.1.2001.1001.102.101.100053"	
				informant/assignedEntity	
				informant/assignedEntity/id	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
				informant/assignedEntity/code	The cardinality of code <b>SHALL</b> be interpreted as 0..1. <a href="#">Australian and New Zealand Standard Classification of Occupations (preferred)</a>
				informant/assignedEntity/assignedPerson	
Practitioner > <b>identifier</b>	An identifier that applies to this person in this role.	0..*	<a href="#">Identifier</a>	informant/assignedEntity/assignedPerson/ext:asEntityIdentifier	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Practitioner > <b>active</b>	Whether this practitioner's record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <b>name</b>	The name(s) associated with the practitioner.	0..*	Base HumanName	informant/assignedEntity/assignedPerson/name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .
Practitioner > <b>telecom</b>	A contact detail for the practitioner, e.g. a telephone number or an email address.	0..*	<a href="#">ContactPoint</a>	informant/assignedEntity/telecom	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Practitioner > <b>address</b>	Address(es) of the practitioner that are not role specific (typically home address). Work addresses are not typically entered in this property as they are usually role dependent.	0..*	<a href="#">Address</a>	informant/assignedEntity/addr	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Practitioner > <b>gender</b>	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <b>birthDate</b>	The date of birth for the practitioner.	0..1	<a href="#">date</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <b>qualification</b>	Qualifications obtained by training and certification.	0..*	<a href="#">BackboneElement</a>	See: instantiation choices	<p>It is possible that the qualification may be able to be captured as a complex structure or as a text list.</p> <p><b>instantiation choices:</b></p> <p>If the qualification or list of qualifications is the result of capturing a text field then qualification is expected to be instantiated as ext:asQualifications/@classCode="QUAL". The common pattern <b>Qualification</b> <b>SHALL</b> be applied.</p> <p>If more information can be captured than a narrative list then qualification is expected to be instantiated as ext:coverage2[prac_qual] and <b>SHALL</b> conform to the template defined in <b>ext:coverage2 (Practitioner qualification)</b>:</p> <ul style="list-style-type: none"> <li>qualification for a Practitioner <b>SHALL</b> be instantiated in the same section e.g. qualification for an AllergyIntolerance recorder is expected to be instantiated as ClinicalDocument/component/structuredBody/component[allergy]/section/ext:coverage2[prac_qual], or</li> <li>qualification for a CDA Header Practitioner (e.g. ClinicalDocument author) <b>SHALL</b> be instantiated as ClinicalDocument/component/structuredBody/component[admin_obs]/section/ext:coverage2[prac_qual]</li> </ul>
Practitioner > <b>communication</b>	A language the practitioner is able to use in patient communication.	0..*	<a href="#">CodeableConcept</a>	informant/assignedEntity/assignedPerson/ext:languageCommunication	The common pattern <b>Language Communication</b> <b>SHALL</b> be applied.

# 9 Entity CDA templates

This chapter contains the entity templates referenced by a participation template in [8 Participation CDA templates](#).

## 9.1 providerOrganization (Base Organization)

This template is referenced by [recordTarget \(Patient with Mandatory Identifier\)](#), and [recordTarget \(My Health Record Patient\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements		Context: /ClinicalDocument/recordTarget/patientRole/			
Organization	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking element	<a href="#">Organization</a>	<b>providerOrganization</b>	Organization <b>SHALL</b> have at least: <ul style="list-style-type: none"><li>• identifier (<a href="#">providerOrganization/ext:asEntityIdentifier</a>), or</li><li>• name (<a href="#">providerOrganization/name</a>)</li></ul>
				<b>providerOrganization/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<a href="#">providerOrganization/templateId/@root="1.2.36.1.2001.1001.102.101.100034"</a>	
				<b>providerOrganization/id</b>	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
Organization > <b>identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	<a href="#">Identifier</a>	<a href="#">providerOrganization/ext:asEntityIdentifier</a>	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Organization > <b>active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > <b>type</b>	The kind(s) of organization that this is.	0..*	<a href="#">CodeableConcept</a>	providerOrganization/standardIndustryClassCode	In CDA the maximum occurrences of providerOrganization/standardIndustryClassCode is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1.  standardIndustryClassCode/originalText or standardIndustryClassCode/@displayName <b>SHALL</b> be included.  <a href="#">OrganizationType (example)</a>
Organization > <b>name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	providerOrganization/name[org_name]	In CDA name and alias are represented by providerOrganization/name.
Organization > <b>alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	providerOrganization/name[alias]	In CDA name and alias are represented by providerOrganization/name.
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	providerOrganization/telecom	telecom/@use <a href="#">Organization Telecom Use HL7 V3 (required)</a> <sup>1</sup> .  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	providerOrganization/addr	addr/@use <a href="#">Organization Address Use HL7 V3 (required)</a> <sup>2</sup> .  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address   AU Base Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference</a> (Base Organization)	providerOrganization/asOrganizationPartOf providerOrganization/asOrganizationPartOf/wholeOrganization	wholeOrganization <b>SHALL</b> conform to the template defined in <a href="#">wholeOrganization (Base Organization)</a> .
<b>CDA Header Data Elements</b>				Context: /ClinicalDocument/	
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	0..*	<a href="#">BackboneElement</a>	<b>participant[org_contact]</b>	participant[org_contact] <b>SHALL</b> conform to the template defined in <a href="#">participant (Organization contact)</a> .

<sup>1</sup>This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

<sup>2</sup>This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

## 9.2 representedOrganization (Base Organization)

This template is referenced by [author \(PractitionerRole with Practitioner with Mandatory Identifier\)](#), and [author \(Base PractitionerRole\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements			
<b>Organization</b>	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking element	<a href="#">Organization</a>	<b>representedOrganization</b>	Organization <b>SHALL</b> have at least: <ul style="list-style-type: none"><li>• name (<code>representedOrganization/name</code>), or</li><li>• identifier (<code>representedOrganization/ext:asEntityIdentifier</code>)</li></ul>
				<b>representedOrganization/templateId</b>	The use of <code>templateId</code> signals the imposition of a set of template-defined constraints.
				<b>representedOrganization/templateId/@root="1.2.36.1.2001.1001.102.101.100039"</b>	
				<b>representedOrganization/id</b>	<code>id/@root</code> <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
<b>Organization &gt; identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	<a href="#">Identifier</a>	<code>representedOrganization/ext:asEntityIdentifier</code>	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
<b>Organization &gt; active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
<b>Organization &gt; type</b>	The kind(s) of organization that this is.	0..*	<a href="#">CodeableConcept</a>	<code>representedOrganization/standardIndustryClassCode</code>	In CDA the maximum occurrences of <code>representedOrganization/standardIndustryClassCode</code> is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1.  <code>standardIndustryClassCode/originalText</code> or <code>standardIndustryClassCode/@displayName</code> <b>SHALL</b> be included.  <a href="#">OrganizationType (example)</a>
<b>Organization &gt; name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	<code>representedOrganization/name[org_name]</code>	In CDA name and alias are represented by <code>representedOrganization/name</code> .
<b>Organization &gt; alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	<code>representedOrganization/name[alias]</code>	In CDA name and alias are represented by <code>representedOrganization/name</code> .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	representedOrganization/telecom	telecom/@use <a href="#">Organization Telecom Use HL7 V3 (required)</a> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	representedOrganization/addr	addr/@use <a href="#">Organization Address Use HL7 V3 (required)</a> <sup>1</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference</a> (Base Organization)	representedOrganization/asOrganizationPartOf representedOrganization/asOrganizationPartOf/wholeOrganization	wholeOrganization <b>SHALL</b> conform to the template defined in <a href="#">wholeOrganization (Base Organization)</a> .
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	0..*	<a href="#">BackboneElement</a>	<b>participant[org_contact]</b>	<b>participant[org_contact]</b> <b>SHALL</b> conform to the template defined in <a href="#">participant (Organization contact)</a> .

<sup>1</sup>This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

## 9.3 receivedOrganization (Base Organization)

This template is referenced by [informationRecipient \(Base PractitionerRole\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements			
<b>Organization</b>	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking element	<a href="#">Organization</a>	<b>receivedOrganization</b>	Organization <b>SHALL</b> have at least: <ul style="list-style-type: none"><li>• name (receivedOrganization/name), or</li><li>• identifier (receivedOrganization/ext:asEntityIdentifier)</li></ul>
				<b>receivedOrganization/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>receivedOrganization/templateId/@root="1.2.36.1.2001.1001.102.101.100070"</b>	
				<b>receivedOrganization/id</b>	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
<b>Organization &gt; identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	<a href="#">Identifier</a>	receivedOrganization/ext:asEntityIdentifier	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
<b>Organization &gt; active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
<b>Organization &gt; type</b>	The kind(s) of organization that this is.	0..*	<a href="#">CodeableConcept</a>	receivedOrganization/standardIndustryClassCode	In CDA the maximum occurrences of receivedOrganization/standardIndustryClassCode is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1.  standardIndustryClassCode/originalText or standardIndustryClassCode/@displayName <b>SHALL</b> be included.  <a href="#">OrganizationType (example)</a>
<b>Organization &gt; name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	receivedOrganization/name[org_name]	In CDA name and alias are represented by receivedOrganization/name.
<b>Organization &gt; alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	receivedOrganization/name[alias]	In CDA name and alias are represented by receivedOrganization/name.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	receivedOrganization/telecom	telecom/@use <a href="#">Organization Telecom Use HL7 V3 (required)</a> <sup>1</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	receivedOrganization/addr	addr/@use <a href="#">Organization Address Use HL7 V3 (required)</a> <sup>2</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference</a> (Base Organization)	receivedOrganization/asOrganizationPartOf receivedOrganization/asOrganizationPartOf/wholeOrganization	wholeOrganization <b>SHALL</b> conform to the template defined in <a href="#">wholeOrganization (Base Organization)</a> .
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	0..*	<a href="#">BackboneElement</a>	<b>participant[org_contact]</b>	<b>participant[org_contact]</b> <b>SHALL</b> conform to the template defined in <a href="#">participant (Organization contact)</a> .

<sup>1</sup>This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

<sup>2</sup>This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

## 9.4 manufacturerOrganization (Base Organization)

This template is referenced by [manufacturedProduct \(Base Medication\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements			
<b>Organization</b>	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking element	<a href="#">Organization</a>	<b>manufacturerOrganization</b>	Organization <b>SHALL</b> have at least: <ul style="list-style-type: none"><li>• name (manufacturerOrganization/name), or</li><li>• identifier (manufacturerOrganization/ext:asEntityIdentifier)</li></ul>
				<b>manufacturerOrganization/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>manufacturerOrganization/templateId/@root="1.2.36.1.2001.1001.102.101.100071"</b>	
				<b>manufacturerOrganization/id</b>	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
Organization > <b>identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	<a href="#">Identifier</a>	manufacturerOrganization/ext:asEntityIdentifier	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Organization > <b>active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Organization > <b>type</b>	The kind(s) of organization that this is.	0..*	<a href="#">CodeableConcept</a>	manufacturerOrganization/standardIndustryClassCode	In CDA the maximum occurrences of manufacturerOrganization/standardIndustryClassCode is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1.  standardIndustryClassCode/originalText or standardIndustryClassCode/@displayName <b>SHALL</b> be included.  <a href="#">OrganizationType (example)</a>
Organization > <b>name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	manufacturerOrganization/name[org_name]	In CDA name and alias are represented by manufacturerOrganization/name.
Organization > <b>alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	manufacturerOrganization/name[alias]	In CDA name and alias are represented by manufacturerOrganization/name.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	manufacturerOrganization/telecom	telecom/@use <a href="#">Organization Telecom Use HL7 V3 (required)</a> <sup>1</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	manufacturerOrganization/addr	addr/@use <a href="#">Organization Address Use HL7 V3 (required)</a> <sup>2</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference</a> (Base Organization)	manufacturerOrganization/asOrganizationPartOf manufacturerOrganization/asOrganizationPartOf/wholeOrganization	wholeOrganization <b>SHALL</b> conform to the template defined in <a href="#">wholeOrganization (Base Organization)</a> .
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	0..*	<a href="#">BackboneElement</a>	<b>participant[org_contact]</b>	<b>participant[org_contact]</b> <b>SHALL</b> conform to the template defined in <a href="#">participant (Organization contact)</a> .

<sup>1</sup>This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

<sup>2</sup>This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

## 9.5 wholeOrganization (Base Organization)

This template is referenced by participant (generalPractitioner Base Organization), informationRecipient (Base Organization), providerOrganization (Base Organization), representedOrganization (Base Organization), receivedOrganization (Base Organization), manufacturerOrganization (Base Organization), scopingOrganization (Base Organization), and wholeOrganization (Base Organization).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements			
<b>Organization</b>	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking element	<a href="#">Organization</a>	<b>wholeOrganization</b>	Organization <b>SHALL</b> have at least: <ul style="list-style-type: none"> <li>• name (wholeOrganization/name), or</li> <li>• identifier (wholeOrganization/ext:asEntityIdentifier)</li> </ul>
				<b>wholeOrganization/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>wholeOrganization/templateId/@root="1.2.36.1.2001.1001.102.101.100087"</b>	
				<b>wholeOrganization/id</b>	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
Organization > <b>identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	<a href="#">Identifier</a>	<b>wholeOrganization/ext:asEntityIdentifier</b>	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied.  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Organization > <b>active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Organization > <b>type</b>	The kind(s) of organization that this is.	0..*	<a href="#">CodeableConcept</a>	<b>wholeOrganization/standardIndustryClassCode</b>	In CDA the maximum occurrences of wholeOrganization/standardIndustryClassCode is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1.  standardIndustryClassCode/originalText or standardIndustryClassCode/@displayName <b>SHALL</b> be included.  <a href="#">OrganizationType (example)</a>
Organization > <b>name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	<b>wholeOrganization/name[org_name]</b>	In CDA name and alias are represented by wholeOrganization/name.
Organization > <b>alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	<b>wholeOrganization/name[alias]</b>	In CDA name and alias are represented by wholeOrganization/name.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	wholeOrganization/telecom	telecom/@use <a href="#">Organization Telecom Use HL7 V3 (required)</a> <sup>1</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	wholeOrganization/addr	addr/@use <a href="#">Organization Address Use HL7 V3 (required)</a> <sup>2</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference</a> (Base Organization)	wholeOrganization/asOrganizationPartOf wholeOrganization/asOrganizationPartOf/wholeOrganization	wholeOrganization/asOrganizationPartOf/wholeOrganization <b>SHALL</b> conform to the template defined in <a href="#">wholeOrganization (Base Organization)</a> .
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	0..*	<a href="#">BackboneElement</a>	<a href="#">participant[org_contact]</a>	<a href="#">participant[org_contact]</a> <b>SHALL</b> conform to the template defined in <a href="#">participant (Organization contact)</a> .

<sup>1</sup>This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

<sup>2</sup>This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

## 9.6 scopingOrganization (Base Organization)

This template is referenced by [participant \(Patient contact\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements			
<b>Organization</b>	A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes companies, institutions, corporations, departments, community groups, healthcare practice groups, etc.	Cardinality comes from linking element	<a href="#">Organization</a>	<b>scopingOrganization</b>	Organization <b>SHALL</b> have at least: <ul style="list-style-type: none"><li>• name (scopingOrganization/name), or</li><li>• identifier (scopingOrganization/ext:asEntityIdentifier)</li></ul>
				<b>scopingOrganization/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>scopingOrganization/templateId/@root="1.2.36.1.2001.1001.102.101.100089"</b>	
				<b>scopingOrganization/id</b>	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
<b>Organization &gt; identifier</b>	Identifier for the organization that is used to identify the organization across multiple disparate systems.	0..*	<a href="#">Identifier</a>	scopingOrganization/ext:asEntityIdentifier	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
<b>Organization &gt; active</b>	Whether the organization's record is still in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
<b>Organization &gt; type</b>	The kind(s) of organization that this is.	0..*	<a href="#">CodeableConcept</a>	scopingOrganization/standardIndustryClassCode	In CDA the maximum occurrences of scopingOrganization/standardIndustryClassCode is 1. Although the model indicates that code is 0..*, in a CDA implementation this is limited to 0..1.  standardIndustryClassCode/originalText or standardIndustryClassCode/@displayName <b>SHALL</b> be included.  <a href="#">OrganizationType (example)</a>
<b>Organization &gt; name</b>	A name associated with the organization.	0..1	<a href="#">string</a>	scopingOrganization/name[org_name]	In CDA name and alias are represented by scopingOrganization/name.
<b>Organization &gt; alias</b>	A list of alternate names that the organization is known as, or was known as in the past.	0..*	<a href="#">string</a>	scopingOrganization/name[alias]	In CDA name and alias are represented by scopingOrganization/name.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Organization > <b>telecom</b>	A contact detail for the organization.	0..*	<a href="#">ContactPoint</a>	scopingOrganization/ <b>telecom</b>	telecom/@use <a href="#">Organization Telecom Use HL7 V3 (required)</a> <sup>1</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Organization > <b>address</b>	An address for the organization.	0..*	<a href="#">Address</a>	scopingOrganization/ <b>addr</b>	addr/@use <a href="#">Organization Address Use HL7 V3 (required)</a> <sup>2</sup> . Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Organization > <b>partOf</b>	The organization of which this organization forms a part.	0..1	<a href="#">Reference</a> (Base Organization)	scopingOrganization/ <b>asOrganizationPartOf</b> scopingOrganization/asOrganizationPartOf/ <b>wholeOrganization</b>	wholeOrganization <b>SHALL</b> conform to the template defined in <a href="#">wholeOrganization (Base Organization)</a> .
<b>CDA Header Data Elements</b>					Context: /ClinicalDocument/
Organization > <b>contact</b>	Contact for the organization for a certain purpose.	0..*	<a href="#">BackboneElement</a>	<b>participant[org_contact]</b>	participant[org_contact] <b>SHALL</b> conform to the template defined in <a href="#">participant (Organization contact)</a> .

<sup>1</sup>This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

<sup>2</sup>This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

## 9.7 assignedPerson (Practitioner with Mandatory Identifier)

This template is referenced by [author \(PractitionerRole with Practitioner with Mandatory Identifier\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
Practitioner	A person who is directly or indirectly involved in the provisioning of healthcare.	Cardinality comes from linking element	<a href="#">Practitioner</a>	<b>assignedPerson</b>	
				<b>assignedPerson/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>assignedPerson/templateId/@root="1.2.36.1.2001.1001.102.101.100040"</b>	
Practitioner > <b>identifier</b>	An identifier that applies to this person in this role.	1..*	<a href="#">Identifier</a>	assignedPerson/ext:asEntityIdentifier	When sending to the My Health Record, an HPI-I is expected. The common pattern <a href="#">Entity Identifier SHALL</a> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Practitioner > <b>active</b>	Whether this practitioner's record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <b>name</b>	The name(s) associated with the practitioner.	0..*	Base HumanName	assignedPerson/name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .
Practitioner > <b>telecom</b>	A contact detail for the practitioner, e.g. a telephone number or an email address.	0..*	<a href="#">ContactPoint</a>	telecom	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Practitioner > <b>address</b>	Address(es) of the practitioner that are not role specific (typically home address). Work addresses are not typically entered in this property as they are usually role dependent.	0..*	<a href="#">Address</a>	addr	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Practitioner > <b>gender</b>	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <b>birthDate</b>	The date of birth for the practitioner.	0..1	<a href="#">date</a>	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
Practitioner > <b>qualification</b>	Qualifications obtained by training and certification.	0..*	<a href="#">BackboneElement</a>	See: instantiation choices	<p>It is possible that the qualification may be able to be captured as a complex structure or as a text list.</p> <p><b>instantiation choices:</b></p> <p>If the qualification or list of qualifications is the result of capturing a text field then qualification is expected to be instantiated as <code>assignedPerson/ext:asQualifications/@classCode="QUAL"</code>. The common pattern <a href="#">Qualification</a> <b>SHALL</b> be applied.</p> <p>If more information can be captured than a narrative list then qualification is expected to be instantiated as <code>ext:coverage2[prac_qual]</code> and <b>SHALL</b> conform to the template defined in <a href="#">ext:coverage2 (Practitioner qualification)</a>:</p> <ul style="list-style-type: none"> <li>qualification for a Practitioner <b>SHALL</b> be instantiated in the same section e.g. qualification for an AllergyIntolerance recorder is expected to be instantiated as <code>ClinicalDocument/component/structuredBody/component[allergy]/section/ext:coverage2[prac_qual]</code>, or</li> <li>qualification for a CDA Header Practitioner (e.g. ClinicalDocument author) <b>SHALL</b> be instantiated as <code>ClinicalDocument/component/structuredBody/component[admin_obs]/section/ext:coverage2[prac_qual]</code></li> </ul>
Practitioner > <b>communication</b>	A language the practitioner is able to use in patient communication.	0..*	<a href="#">CodeableConcept</a>	<code>assignedPerson/ext:languageCommunication</code>	The common pattern <a href="#">Language Communication</a> <b>SHALL</b> be applied.

## 9.8 assignedPerson (Base Practitioner)

This template is referenced by [author \(Base PractitionerRole\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
Practitioner	A person who is directly or indirectly involved in the provisioning of healthcare.	Cardinality comes from linking element	<a href="#">Practitioner</a>	assignedPerson	Practitioner <b>SHALL</b> have at least: <ul style="list-style-type: none"><li>• identifier (assignedPerson/ext:asEntityIdentifier), or</li><li>• name (assignedPerson/name)</li></ul>
				assignedPerson/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
				assignedPerson/templateId/@root="1.2.36.1.2001.1001.102.101.100086"	
Practitioner > <a href="#">identifier</a>	An identifier that applies to this person in this role.	0..*	<a href="#">Identifier</a>	assignedPerson/ext:asEntityIdentifier	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Practitioner > <a href="#">active</a>	Whether this practitioner's record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <a href="#">name</a>	The name(s) associated with the practitioner.	0..*	Base HumanName	assignedPerson/name	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .
Practitioner > <a href="#">telecom</a>	A contact detail for the practitioner, e.g. a telephone number or an email address.	0..*	<a href="#">ContactPoint</a>	telecom	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Practitioner > <a href="#">address</a>	Address(es) of the practitioner that are not role specific (typically home address). Work addresses are not typically entered in this property as they are usually role dependent.	0..*	<a href="#">Address</a>	addr	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Practitioner > <a href="#">gender</a>	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <a href="#">birthDate</a>	The date of birth for the practitioner.	0..1	<a href="#">date</a>	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
Practitioner > <b>qualification</b>	Qualifications obtained by training and certification.	0..*	<a href="#">BackboneElement</a>	See: instantiation choices	<p>It is possible that the qualification may be able to be captured as a complex structure or as a text list.</p> <p><b>instantiation choices:</b></p> <p>If the qualification or list of qualifications is the result of capturing a text field then qualification is expected to be instantiated as <code>assignedPerson/ext:asQualifications/@classCode="QUAL"</code>. The common pattern <a href="#">Qualification</a> <b>SHALL</b> be applied.</p> <p>If more information can be captured than a narrative list then qualification is expected to be instantiated as <code>ext:coverage2[prac_qual]</code> and <b>SHALL</b> conform to the template defined in <a href="#">ext:coverage2 (Practitioner qualification)</a>:</p> <ul style="list-style-type: none"> <li>qualification for a Practitioner <b>SHALL</b> be instantiated in the same section e.g. qualification for an AllergyIntolerance recorder is expected to be instantiated as <code>ClinicalDocument/component/structuredBody/component[allergy]/section/ext:coverage2[prac_qual]</code>, or</li> <li>qualification for a CDA Header Practitioner (e.g. ClinicalDocument author) <b>SHALL</b> be instantiated as <code>ClinicalDocument/component/structuredBody/component[admin_obs]/section/ext:coverage2[prac_qual]</code></li> </ul>
Practitioner > <b>communication</b>	A language the practitioner is able to use in patient communication.	0..*	<a href="#">CodeableConcept</a>	<code>assignedPerson/ext:languageCommunication</code>	The common pattern <a href="#">Language Communication</a> <b>SHALL</b> be applied.

## 9.9 informationRecipient (Base Practitioner)

This template is referenced by [informationRecipient \(Base PractitionerRole\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements			Context: /ClinicalDocument/informationRecipient/intendedRecipient/		
Practitioner	A person who is directly or indirectly involved in the provisioning of healthcare.	Cardinality comes from linking element	<a href="#">Practitioner</a>	informationRecipient	Practitioner <b>SHALL</b> have at least: <ul style="list-style-type: none"><li>• identifier (<a href="#">informationRecipient/ext:asEntityIdentifier</a>), or</li><li>• name (<a href="#">informationRecipient/name</a>)</li></ul>
				informationRecipient/ <a href="#">templateId</a>	The use of templateId signals the imposition of a set of template-defined constraints.
				informationRecipient/templateId/@root="1.2.36.1.2001.1001.102.101.100005"	
Practitioner > <a href="#">identifier</a>	An identifier that applies to this person in this role.	0..*	<a href="#">Identifier</a>	informationRecipient/ <a href="#">ext:asEntityIdentifier</a>	The common pattern <a href="#">Entity Identifier</a> <b>SHALL</b> be applied. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Practitioner > <a href="#">active</a>	Whether this practitioner's record is in active use.	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <a href="#">name</a>	The name(s) associated with the practitioner.	0..*	Base HumanName	informationRecipient/ <a href="#">name</a>	The model Base HumanName is not applied to name. Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Base HumanName</a> .
Practitioner > <a href="#">telecom</a>	A contact detail for the practitioner, e.g. a telephone number or an email address.	0..*	<a href="#">ContactPoint</a>	telecom	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">ContactPoint</a> .
Practitioner > <a href="#">address</a>	Address(es) of the practitioner that are not role specific (typically home address). Work addresses are not typically entered in this property as they are usually role dependent.	0..*	<a href="#">Address</a>	addr	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Address</a>   <a href="#">AU Base Address</a> .
Practitioner > <a href="#">gender</a>	Administrative Gender - the gender that the person is considered to have for administration and record keeping purposes.	0..1	<a href="#">code</a>	n/a	This logical element has no mapping to CDA.
Practitioner > <a href="#">birthDate</a>	The date of birth for the practitioner.	0..1	<a href="#">date</a>	n/a	This logical element has no mapping to CDA.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Practitioner > <b>qualification</b>	Qualifications obtained by training and certification.	0..*	<a href="#">BackboneElement</a>	See: instantiation choices	<p>It is possible that the qualification may be able to be captured as a complex structure or as a text list.</p> <p><b>instantiation choices:</b></p> <p>If the qualification or list of qualifications is the result of capturing a text field then qualification is expected to be instantiated as <code>informationRecipient/ext:asQualifications/@classCode="QUAL"</code>. The common pattern <a href="#">Qualification</a> <b>SHALL</b> be applied.</p> <p>If more information can be captured than a narrative list then qualification is expected to be instantiated as <code>ext:coverage2[prac_qual]</code> and <b>SHALL</b> conform to the template defined in <a href="#">ext:coverage2 (Practitioner qualification)</a>:</p> <ul style="list-style-type: none"> <li>• qualification for a Practitioner <b>SHALL</b> be instantiated in the same section e.g. qualification for an AllergyIntolerance recorder is expected to be instantiated as <code>ClinicalDocument/component/structuredBody/component[allergy]/section/ext:coverage2[prac_qual]</code>, or</li> <li>• qualification for a CDA Header Practitioner (e.g. ClinicalDocument author) <b>SHALL</b> be instantiated as <code>ClinicalDocument/component/structuredBody/component[admin_obs]/section/ext:coverage2[prac_qual]</code></li> </ul>
Practitioner > <b>communication</b>	A language the practitioner is able to use in patient communication.	0..*	<a href="#">CodeableConcept</a>	<code>informationRecipient/ext:languageCommunication</code>	The common pattern <a href="#">Language Communication</a> <b>SHALL</b> be applied.

# 10 Act CDA templates

This chapter contains the entry-level templates, called acts (machine readable structured content), referenced by other templates such as those in [7 Section CDA templates](#).

## 10.1 encompassingEncounter (Summary of an Encounter for an Event)

This template is referenced by [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
CDA Header Data Elements		Context: /ClinicalDocument/componentOf/			
Encounter	An interaction between a patient and healthcare provider(s) for the purpose of providing healthcare service(s) or assessing the health status of a patient.	Cardinality comes from linking element	<a href="#">Encounter</a>	<b>encompassingEncounter</b>	
				<b>encompassingEncounter/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>encompassingEncounter/templateId/@root="1.2.36.1.2001.1001.102.101.100064"</b>	
				<b>encompassingEncounter/id</b>	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID. This id <b>SHALL</b> hold the same value as encounter/id.
Encounter > <b>encounter-description</b>	Description, overview or summary of a clinical event and its reasons.	0..1	<a href="#">string</a>	n/a	Not mapped directly for this model; this is implicit in encounter/text.
Encounter > <b>status</b>	planned   arrived   triaged   in-progress   onleave   finished   cancelled +.	1..1	<a href="#">code</a>	n/a	Not mapped directly for this model; this is implicit in encounter/statusCode.
Encounter > <b>class</b>	inpatient   outpatient   ambulatory   emergency +.	0..1	<a href="#">Coding</a>	encompassingEncounter/code	This code <b>SHALL</b> hold the same value as encounter/code. <a href="#">ActEncounterCode (required)</a>
Encounter > <b>type</b>	Specific type of encounter (e.g. e-mail consultation, surgical day-care, skilled nursing, rehabilitation).	0..*	<a href="#">CodeableConcept</a>	n/a	This logical element has no mapping to CDA.
Encounter > <b>subject</b>	The patient or group present at the encounter.	1..1	<a href="#">Reference(Patient with Mandatory Identifier)</a>	n/a	Not mapped directly for this model; this is implicit in patientRole.
Encounter > <b>period</b>	The start and end time of the encounter.	1..1	<a href="#">Period</a>	encompassingEncounter/effectiveTime	This effectiveTime <b>SHALL</b> hold the same value as encounter/effectiveTime.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Encounter > <b>reason</b>	Reason the encounter takes place, expressed as a code. For admissions, this can be used for a coded admission diagnosis.	0..*	<a href="#">CodeableConcept</a>	n/a	Not mapped directly for this model; this is implicit in encounter/entryRelationship[reason]/observation/value.

## 10.2 encounter (Summary of an Encounter for an Event)

This template is referenced by [act \(List of Medicine Items with Change Information Authored by Practitioner\)](#), and [substanceAdministration \(Medicine Item Statement\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
Encounter	An interaction between a patient and healthcare provider(s) for the purpose of providing healthcare service(s) or assessing the health status of a patient.	Cardinality comes from linking element	<a href="#">Encounter</a>	encounter	This encounter provides additional information about the Composition encounter (encompassingEncounter). encounter/id will hold the same value as encompassingEncounter/id to link the two encounter classes.
				encounter/@classCode="ENC"	
				encounter/@moodCode="EVN"	
				encounter/templateId	
				encounter/templateId/@root="1.2.36.1.2001.1001.102.101.100062"	
				encounter/id	id/@root <b>SHALL</b> be present and it <b>SHALL</b> be a UUID or an OID.
Encounter > <b>encounter-description</b>	Description, overview or summary of a clinical event and its reasons.	0..1	<a href="#">string</a>	encounter/text	
Encounter > <b>status</b>	planned   arrived   triaged   in-progress   onleave   finished   cancelled +.	1..1	<a href="#">code</a>	encounter/statusCode	This CDA schema element is of type CodedSimpleValue (CS). statusCode/@code <b>SHOULD</b> be "completed". <a href="#">Encounter Act Status HL7 V3 (required)</a> <sup>1</sup>
Encounter > <b>class</b>	inpatient   outpatient   ambulatory   emergency +.	0..1	<a href="#">Coding</a>	encounter/code	code/originalText or code/@displayName <b>SHALL</b> be included. <a href="#">ActEncounterCode (required)</a>

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Encounter > <b>type</b>	Specific type of encounter (e.g. e-mail consultation, surgical day-care, skilled nursing, rehabilitation).	0..*	<a href="#">CodeableConcept</a>	encounter/entryRelationship[type] encounter/entryRelationship[type]/@typeCode="COMP" encounter/entryRelationship[type]/observation encounter/entryRelationship[type]/observation/@classCode="OBS" encounter/entryRelationship[type]/observation/@moodCode="EVN" encounter/entryRelationship[type]/observation/code encounter/entryRelationship[type]/observation/code/@code="103.17018" encounter/entryRelationship[type]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" encounter/entryRelationship[type]/observation/code/@displayName encounter/entryRelationship[type]/observation/value	<a href="#">NCTIS Data Components</a> displayName <b>SHOULD</b> be "Category". When sending a PSML the codes from <a href="#">Medicines Review Type</a> are expected. value/@xsi:type <b>SHALL</b> be "CD". value/originalText or value/@displayName SHALL be included. <a href="#">Encounter Type (preferred)</a>
Encounter > <b>subject</b>	The patient or group present at the encounter.	1..1	<a href="#">Reference(Patient with Mandatory Identifier)</a>	n/a	Not mapped directly for this model; this is implicit in patientRole.
Encounter > <b>period</b>	The start and end time of the encounter.	1..1	<a href="#">Period</a>	encounter/effectiveTime	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Encounter > <b>reason</b>	Reason the encounter takes place, expressed as a code. For admissions, this can be used for a coded admission diagnosis.	0..*	<a href="#">CodeableConcept</a>	encounter/entryRelationship[reason] encounter/entryRelationship[reason]/@typeCode="RSON" encounter/entryRelationship[reason]/observation encounter/entryRelationship[reason]/observation/@classCode="OBS" encounter/entryRelationship[reason]/observation/@moodCode="EVN" encounter/entryRelationship[reason]/observation/code encounter/entryRelationship[reason]/observation/code/@code="103.10141" encounter/entryRelationship[reason]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" encounter/entryRelationship[reason]/observation/code/@displayName encounter/entryRelationship[reason]/observation/statusCode/@code="completed" encounter/entryRelationship[reason]/observation/value	<a href="#">NCTIS Data Components</a> displayName <b>SHOULD</b> be "Clinical Indication". value/@xsi:type <b>SHALL</b> be "CD". value/originalText or value/@displayName <b>SHALL</b> be included. <a href="#">Encounter Reason Codes (preferred)</a>

<sup>1</sup>This value set differs from the value set bound to status in the Agency logical model (see [Shared Medicines List FHIR Implementation Guide \[DH2020I\]](#)) due to constraints on statusCode in the HL7 CDA Schema. The concept map [EncounterStatus \(HL7 FHIR\) to Encounter Act Status HL7 v3](#) provides a mapping between the two value sets.

## 10.3 observation (Summary Statement of Allergy or Intolerance)

This template is referenced by [section \(Allergies\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements			
<b>AllergyIntolerance</b>	Risk of harmful or undesirable, physiological response which is unique to an individual and associated with exposure to a substance.	Cardinality comes from linking element	<a href="#">AllergyIntolerance</a>	<b>observation</b>	Where only a substance is available (e.g. 11108007  Latex ) and not a statement of allergy or intolerance (e.g. 300916003  Allergy to latex ), the substance will be sent in code (observation/value), and optionally in substance (participant[agent]/participantRole/playingEntity/code).
				<b>observation/@classCode="OBS"</b>	clinicalStatus (entryRelationship[cln_status]/observation) <b>SHALL</b> be instantiated if verificationStatus (entryRelationship[ver_status]/observation/value/@code) is not "entered-in-error".
				<b>observation/@moodCode="EVN"</b>	
				<b>observation/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.
				<b>observation/templateId/@root="1.2.36.1.2001.1001.102.101.100014"</b>	
				<b>observation/code</b>	code is expected to be populated with AllergyIntolerance type.  Where type is unavailable, a default code is provided and <b>SHALL</b> be instantiated as code@code="102.15517", code@displayName="Adverse Reaction", code@codeSystem="1.2.36.1.2001.1001.101".
AllergyIntolerance > <b>author-related-person</b>	Reference to related person that recorded the record and takes responsibility for its content.	0..1	<a href="#">Reference</a> (Base RelatedPerson)	<b>observation/author</b>	If author is not instantiated, the data is considered to be included via induction in ClinicalDocument/author.  author <b>SHALL</b> conform to one of the templates defined in: <a href="#">author (Base RelatedPerson)</a> or <a href="#">author (Base Patient)</a> or <a href="#">author (Base PractitionerRole)</a> .

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
AllergyIntolerance > clinical-Status	The clinical status of the allergy or intolerance.	0..1	<a href="#">code</a>	observation/entryRelationship[clin_status] observation/entryRelationship[clin_status]/@typeCode="COMP" observation/entryRelationship[clin_status]/observation observation/entryRelationship[clin_status]/observation/@classCode="OBS" observation/entryRelationship[clin_status]/observation/@moodCode="EVN" observation/entryRelationship[clin_status]/observation/code observation/entryRelationship[clin_status]/observation/code/@code="103.32013" observation/entryRelationship[clin_status]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" observation/entryRelationship[clin_status]/observation/code/@displayName observation/entryRelationship[clin_status]/observation/value	<a href="#">NCTIS Data Components</a> displayName <b>SHOULD</b> be "Clinical Status". value/@xsi:type <b>SHALL</b> be "CD". value/@value <b>SHOULD</b> be "active". <a href="#">AllergyIntolerance Clinical Status Codes (required)<sup>1</sup></a>
AllergyIntolerance > verification-Status	Assertion about certainty associated with the propensity, or potential risk, of a reaction to the identified substance (including pharmaceutical product).	1..1	<a href="#">code</a>	observation/entryRelationship[ver_status] observation/entryRelationship[ver_status]/@typeCode="COMP" observation/entryRelationship[ver_status]/observation observation/entryRelationship[ver_status]/observation/@classCode="OBS" observation/entryRelationship[ver_status]/observation/@moodCode="EVN" observation/entryRelationship[ver_status]/observation/code observation/entryRelationship[ver_status]/observation/code/@code="103.32012" observation/entryRelationship[ver_status]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" observation/entryRelationship[ver_status]/observation/code/@displayName observation/entryRelationship[ver_status]/observation/value	<a href="#">NCTIS Data Components</a> displayName <b>SHOULD</b> be "Verification Status". value/@xsi:type <b>SHALL</b> be "CD". value/@value <b>SHOULD</b> be "unconfirmed" or "confirmed". <a href="#">AllergyIntolerance Verification Status Codes (required)<sup>2</sup></a>
AllergyIntolerance > type	Identification of the underlying physiological mechanism for the reaction risk.	0..1	<a href="#">code</a>	observation/code	<a href="#">AllergyIntoleranceType (required)<sup>3</sup></a>

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
AllergyIntolerance > code	Code for an allergy or intolerance statement (either a positive or a negated/excluded statement). This may be a code for a substance or pharmaceutical product that is considered to be responsible for the adverse reaction risk (e.g., 'Latex'), an allergy or intolerance condition (e.g., 'Latex allergy'), or a negated/excluded code for a specific substance or class (e.g., 'No latex allergy') or a general or categorical negated statement (e.g., 'No known allergy', 'No known drug allergies').	1..1	<a href="#">CodeableConcept</a>	observation/value	<p>value/@xsi:type <b>SHALL</b> be "CD".</p> <p>value/originalText or value/@displayName <b>SHALL</b> be included.</p> <p><a href="#">Indicator of Hypersensitivity or Intolerance to Substance (preferred)</a></p>
AllergyIntolerance > patient	The patient who has the allergy or intolerance.	1..1	<a href="#">Reference(Patient with Mandatory Identifier)</a>	n/a	<p>Not mapped directly for this model; this is implicit in patientRole.</p>
AllergyIntolerance > onset[x]	Estimated or actual date, date-time, or age when allergy or intolerance was identified.	0..1	<a href="#">dateTime</a>   <a href="#">Age</a>   <a href="#">Period</a>   <a href="#">Range</a>	See: instantiation choices	<p>onset[x] as a <a href="#">Range</a> is not currently mapped to CDA. See <a href="#">Known issues</a>.</p> <p><b>instantiation choices:</b></p> <p>If onset[x] is a <a href="#">dateTime</a> or a <a href="#">Period</a> then it <b>SHALL</b> be instantiated as observation/effectiveTime/low/@value.</p> <p>If onset[x] is an <a href="#">Age</a> then it <b>SHALL</b> be instantiated as observation/entryRelationship[onset]/observation/value. value/@xsi:type <b>SHALL</b> be "PQ". The code for observation/entryRelationship[onset]/observation/code <b>SHALL</b> be code/@code="445518008" and code/@codeSystem="2.16.840.1.113883.6.96".</p>
AllergyIntolerance > recorder	Individual who recorded the record and takes responsibility for its content.	0..1	<a href="#">Reference(Base Patient   Base Practitioner)</a>	observation/author	<p>If author is not instantiated, the data is considered to be included via induction in ClinicalDocument/author.</p> <p>In CDA an author (Practitioner) is part of an author (PractitionerRole).</p> <p>author <b>SHALL</b> conform to one of the templates defined in: <a href="#">author (Base RelatedPerson)</a> or <a href="#">author (Base Patient)</a> or <a href="#">author (Base PractitionerRole)</a>.</p>

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
AllergyIntolerance > note	Additional narrative about the propensity for the Adverse Reaction, not captured in other fields.	0..*	<a href="#">Annotation</a>	observation/entryRelationship[note] observation/entryRelationship[note]/@typeCode="COMP" observation/entryRelationship[note]/act observation/entryRelationship[note]/act/@classCode="ACT" observation/entryRelationship[note]/act/@moodCode="EVN" observation/entryRelationship[note]/act/code observation/entryRelationship[note]/act/code/@code="103.16044" observation/entryRelationship[note]/act/code/@codeSystem="1.2.36.1.2001.1001.101" observation/entryRelationship[note]/act/code/@displayName observation/entryRelationship[note]/act/author	<a href="#">NCTIS Data Components</a> displayName <b>SHOULD</b> be "Additional Comments". If this author is not instantiated, the data is considered to be included via induction in ClinicalDocument/author. In CDA the cardinality of entryRelationship[note]/act/author is 0..*. In this template the cardinality of author <b>SHALL</b> be limited to 0..1.
AllergyIntolerance > reaction	Details about each adverse reaction event linked to exposure to the identified substance.	0..*	<a href="#">BackboneElement</a>	observation/entryRelationship[react] observation/entryRelationship[react]/@typeCode="COMP" observation/entryRelationship[react]/observation observation/entryRelationship[react]/observation/@classCode="OBS" observation/entryRelationship[react]/observation/@moodCode="EVN" observation/entryRelationship[react]/observation/code observation/entryRelationship[react]/observation/code/@code="102.16474" observation/entryRelationship[react]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" observation/entryRelationship[react]/observation/code/@displayName	<a href="#">NCTIS Data Components</a> displayName <b>SHOULD</b> be "Reaction Event".

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
AllergyIntolerance > reaction > substance	Identification of the specific substance (or pharmaceutical product) considered to be responsible for the Adverse Reaction event. Note: the substance for a specific reaction may be different from the substance identified as the cause of the risk, but it must be consistent with it. For instance, it may be a more specific substance (e.g. a brand medication) or a composite product that includes the identified substance. It must be clinically safe to only process the 'code' and ignore the 'reaction.substance'.	0..1	<a href="#">CodeableConcept</a>	<p>observation/entryRelationship[react]/observation/participant[agent]</p> <p>observation/entryRelationship[react]/observation/participant[agent]/@typeCode="CAGNT"</p> <p>observation/entryRelationship[react]/observation/participant[agent]/participantRole</p> <p>observation/entryRelationship[react]/observation/participant[agent]/participantRole/playingEntity</p> <p>observation/entryRelationship[react]/observation/participant[agent]/participantRole/playingEntity/code</p>	<p>code/originalText or code/@displayName SHALL be included.</p> <p><a href="#">Adverse Reaction Agent (preferred)</a></p>
AllergyIntolerance > reaction > manifestation	Clinical symptoms and/or signs that are observed or associated with the adverse reaction event.	1..*	<a href="#">CodeableConcept</a>	<p>observation/entryRelationship[react]/observation/entryRelationship[mfst]</p> <p>observation/entryRelationship[react]/observation/entryRelationship[mfst]/@typeCode="MFST"</p> <p>observation/entryRelationship[react]/observation/entryRelationship[mfst]/@inversionInd="true"</p> <p>observation/entryRelationship[react]/observation/entryRelationship[mfst]/observation</p> <p>observation/entryRelationship[react]/observation/entryRelationship[mfst]/observation/@classCode="OBS"</p> <p>observation/entryRelationship[react]/observation/entryRelationship[mfst]/observation/@moodCode="EVN"</p> <p>observation/entryRelationship[react]/observation/entryRelationship[mfst]/observation/code</p>	<p>code/originalText or code/@displayName SHALL be included.</p> <p><a href="#">Clinical Finding (preferred)</a></p>

<sup>1</sup>This value set differs from the value set bound to clinicalStatus in the Agency logical model (see [Shared Medicines List FHIR Implementation Guide \[DH2020I\]](#)) due to pre-adoption of FHIR Release 4 terminology.

<sup>2</sup>This value set differs from the value set bound to verificationStatus in the Agency logical model (see [Shared Medicines List FHIR Implementation Guide \[DH2020I\]](#)) due to pre-adoption of FHIR Release 4 terminology.

<sup>3</sup>This value set differs from the value set bound to type in the Agency logical model (see [Shared Medicines List FHIR Implementation Guide \[DH2020I\]](#)) due to pre-adoption of FHIR Release 4 terminology.

## 10.4 observation (Assertion of No Relevant Finding)

This template is referenced by [section \(Medicines List\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments		
Conformance level comes from linking elements			Context: Comes from linking elements				
<b>Observation</b>	Statement of clinical judgement that there are no items of specific interest after a reasonable investigation.	Cardinality comes from linking element	<a href="#">Observation</a>	<b>observation</b>			
				<b>observation/@classCode="OBS"</b>			
				<b>observation/@moodCode="EVN"</b>			
				<b>observation/templateId</b>	The use of templateId signals the imposition of a set of template-defined constraints.		
				<b>observation/templateId/@root="1.2.36.1.2001.1001.102.101.100032"</b>			
<b>Observation &gt; status</b>	The status of the result value.	1..1	<a href="#">code</a>	<b>observation/entryRelationship[status]</b>			
				<b>observation/entryRelationship[status]/@typeCode="COMP"</b>			
				<b>observation/entryRelationship[status]/observation</b>			
				<b>observation/entryRelationship[status]/observation/@classCode="OBS"</b>			
				<b>observation/entryRelationship[status]/observation/@moodCode="EVN"</b>			
				<b>observation/entryRelationship[status]/observation/code</b>			
				<b>observation/entryRelationship[status]/observation/code/@code="103.32010"</b>			
				<b>observation/entryRelationship[status]/observation/code/@codeSystem="1.2.36.1.2001.1001.101"</b>	<a href="#">NCTIS Data Components</a>		
				<b>observation/entryRelationship[status]/observation/code/@displayName</b>	displayName <b>SHOULD</b> be "Observation Result Status".		
				<b>observation/entryRelationship[status]/observation/value</b>	value/@xsi:type <b>SHALL</b> be "CD". value/@value <b>SHOULD</b> be "final". <a href="#">ObservationStatus (required)<sup>1</sup></a>		

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Observation > <b>code</b>	Describes what was observed. Sometimes this is called the observation 'name'.	1..1	<a href="#">CodeableConcept</a>	observation/code	
				observation/code/@code="ASSERTION"	
				observation/code/@codeSystem="2.16.840.1.113883.5.4"	<a href="#">v3 Code System ActCode</a>
				observation/code/@displayName	displayName <b>SHOULD</b> be "Assertion".
Observation > <b>subject</b>	The patient, or group of patients, location, or device whose characteristics (direct or indirect) are described by the observation and into whose record the observation is placed.	1..1	<a href="#">Reference</a> (Patient with Mandatory Identifier)	n/a	Not mapped directly for this model; this is implicit in patientRole.
Observation > <b>effective[x]</b>	The time or time-period the observed value is asserted as being true. For biological subjects - e.g. human patients - this is usually called the 'physiologically relevant time'. This is usually either the time of the procedure or of specimen collection, but very often the source of the date/time is not known, only the date/time itself.	0..1	<a href="#">dateTime</a>   <a href="#">Period</a>	observation/effectiveTime	
Observation > <b>performer</b>	Who was responsible for asserting the observed value as 'true'.	0..*	<a href="#">Reference</a> (Base Practitioner   Base Organization   Base RelatedPerson   Base Patient)	See: instantiation choices	<p>If performer is not instantiated the data is considered to be included via induction in ClinicalDocument/author.</p> <p>In CDA, performer is mapped to observation/author or observation/participant/@typeCode="AUT".</p> <p><b>instantiation choices:</b></p> <p>If performer is an <a href="#">Organization</a> then it <b>SHALL</b> be instantiated as observation/participant/@typeCode="AUT". participant <b>SHALL</b> conform to the template defined in <a href="#">participant</a> (author Base Organization).</p> <p>In CDA an author (Practitioner) is part of an author (PractitionerRole).</p> <p>If performer is a <a href="#">Practitioner</a> or <a href="#">RelatedPerson</a> or <a href="#">Patient</a> then it <b>SHALL</b> be instantiated as observation/author. author <b>SHALL</b> conform to one of the templates defined in: <a href="#">author</a> (Base PractitionerRole) or <a href="#">author</a> (Base RelatedPerson) or <a href="#">author</a> (Base Patient).</p>
Observation > <b>value[x]</b>	The information determined as a result of making the observation, if the information has a simple value.	1..1	<a href="#">CodeableConcept</a>	observation/value	<p>When sending a PSML, this is expected to be 1234391000168107   No known current medications .</p> <p>value/@xsi:type <b>SHALL</b> be "CD".</p> <p>value/originalText or value/@displayName <b>SHALL</b> be included.</p> <p><a href="#">Assertion Of Absence value set (required)</a></p>

<sup>1</sup>This value set differs from the value set bound to status in the Agency logical model (see [Shared Medicines List FHIR Implementation Guide \[DH2020\]](#)) due to pre-adoption of FHIR Release 4 terminology.

## 10.5 act (List of Medicine Items with Change Information Authored by Practitioner)

This template is referenced by [section \(Medicines List\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements				Context: Comes from linking elements	
List	A list of medicines authored by a practitioner at a point in time that describes the medicines an individual is taking.	Cardinality comes from linking element	<a href="#">List</a>	act	When sending a Ceased Medicines List (code@code="101.32027"), entry items (entryRelationship[item]/substanceAdministration) are only expected to be ceased medicine items.
				act/@classCode="ACT"	When sending a Current Medicines List (code@code="101.32009"), entry items (entryRelationship[item]/substanceAdministration) are only expected to be new or existing medicine items and no ceased medicine items.
				act/@moodCode="EVN"	When sending a PSML, and the List is a History of Medication (code@code="10160-0"), at least one entry item (entryRelationship[item]/substanceAdministration) is expected to be sent with at least one new or existing medicine item.
				act/templateId	A List <b>SHALL NOT</b> contain a <a href="#">MedicationDispense</a> (supply) entry item. In this template the occurrences of act/entryRelationship/supply <b>SHALL</b> be 0..0.
				act/templateId/@root="1.2.36.1.2001.1001.102.101.100067"	The use of templateId signals the imposition of a set of template-defined constraints.
				act/author	This author will hold the same value as ClinicalDocument/author. author <b>SHALL</b> conform to the template defined in <a href="#">author (PractitionerRole with Practitioner with Mandatory Identifier)</a> .
List > author-role	Identifies the practitioner role responsible for the information in the resource (aka author), not necessarily who typed it in.	1..1	<a href="#">Reference</a> (PractitionerRole with Practitioner with Mandatory Identifier)		



Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
List > note	Comments that apply to the overall list.	0..*	<a href="#">Annotation</a>	act/entryRelationship[note] act/entryRelationship[note]/@typeCode="COMP" act/entryRelationship[note]/act act/entryRelationship[note]/act/@classCode="INFRM" act/entryRelationship[note]/act/@moodCode="EVN" act/entryRelationship[note]/act/code act/entryRelationship[note]/act/code/@code="103.16044" act/entryRelationship[note]/act/code/@codeSystem="1.2.36.1.2001.1001.101" act/entryRelationship[note]/act/code/@displayName act/entryRelationship[note]/act/author	
					<a href="#">NCTIS Data Components</a> displayName <b>SHOULD</b> be "Additional Comments".
					If this author is not instantiated, the data is considered to be included via induction in ClinicalDocument/author. In CDA the cardinality of entryRelationship[note]/act/author is 0..*. In this template the cardinality of author <b>SHALL</b> be limited to 0..1.
				act/entryRelationship[note]/act/effectiveTime	If this effectiveTime is not instantiated, the data is considered to be included via induction in ClinicalDocument/author/time. In CDA the cardinality of entryRelationship[note]/act/effectiveTime is 0..*. In this template the cardinality of effectiveTime <b>SHALL</b> be limited to 0..1.
				act/entryRelationship[note]/act/text	text/@xsi:type <b>SHALL</b> be "ST".
List > entry	List of medicine type entries	1..*	<a href="#">BackboneElement</a>	act/entryRelationship[item] act/entryRelationship[item]/@typeCode="COMP"	
List > entry > change-description	Description of a change including the reason for change.	0..1	<a href="#">string</a>	act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/text	A change-description will provide the narrative to accompany the flag and may include reasons for stopping or introducing a medicine item, or describe the narrative of the change itself e.g. dose, form, route, frequency.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
List > entry > flag	The flag allows the system constructing the list to indicate the role and significance of the item in the list.	0..1	<a href="#">CodeableConcept</a>	act/entryRelationship[item]/substanceAdministration/entryRelationship[flag] act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/@typeCode="SUBJ" act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/@inversionInd="true" act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/@classCode="OBS" act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/@moodCode="EVN" act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/code act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/code/@code="288533004" act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/code/@codeSystem="2.16.840.1.113883.6.96" act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/code/@displayName act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/value	In CDA flag is represented as a child of the entry item (entryRelationship[item]/substanceAdministration).
List > entry > item	A reference to the actual resource from which data was derived.	1..1	<a href="#">Reference</a> (Medicine Item Statement)	act/entryRelationship[item]/substanceAdministration	substanceAdministration <b>SHALL</b> conform to the template defined in <a href="#">substanceAdministration (Medicine Item Statement)</a> .

## 10.6 substanceAdministration (Medicine Item Statement)

This template is referenced by [act \(List of Medicine Items with Change Information Authored by Practitioner\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements		
<b>MedicationStatement</b>	A record of a medication that is being consumed by a patient. A MedicationStatement may indicate that the patient may be taking the medication now, or has taken the medication in the past or will be taking the medication in the future. The source of this information can be the patient, significant other (such as a family member or spouse), or a clinician. A common scenario where this information is captured is during the history taking process during a patient visit or stay. The medication information may come from sources such as the patient's memory, from a prescription bottle, or from a list of medications the patient, clinician or other party maintains. The primary difference between a medication statement and a medication administration is that the medication administration has complete administration information and is based on actual administration information from the person who administered the medication. A medication statement is often, if not always, less specific. There is no required date/time when the medication was administered, in fact we only know that a source has reported the patient is taking this medication, where details such as time, quantity, or rate or even medication product may be incomplete or missing or less precise. As stated earlier, the medication statement information may come from the patient's memory, from a prescription bottle or from a list of medications the patient, clinician or other party maintains. Medication administration is more formal and is not missing detailed information.	Cardinality comes from linking element	substanceAdministration	If a new or existing medicine item (substanceAdministration/statusCode/@code is "active" or "new"), then dosage (substanceAdministration/text) <b>SHALL</b> be included.
			substanceAdministration/@classCode="SBADM"	
			substanceAdministration/@moodCode	When sending a PSML, this is expected to be "EVN". This CDA schema element is of type CodedSimpleValue (CS). moodCode <b>SHALL NOT</b> be "RQO". <a href="#">HL7 v3 Value Set ActMood (required)</a>
			substanceAdministration/templateId	The use of templateId signals the imposition of a set of template-defined constraints.
			substanceAdministration/templateId/@root="1.2.36.1.2001.1001.102.101.100066"	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
MedicationStatement > <b>identifier</b>	External identifier - FHIR will generate its own internal identifiers (probably URLs) which do not need to be explicitly managed by the resource. The identifier here is one that would be used by another non-FHIR system - for example an automated medication pump would provide a record each time it operated; an administration while the patient was off the ward might be made with a different system and entered after the event. Particularly important if these records have to be updated.	0..*	<a href="#">Identifier</a>	substanceAdministration/id[med_ident]	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
MedicationStatement > <b>context</b>	The encounter or episode of care that establishes the context for this MedicationStatement.	0..1	<a href="#">Reference</a> (Summary of an Encounter for an Event)	substanceAdministration/entryRelationship[context]	encounter <b>SHALL</b> conform to the template defined in <a href="#">encounter (Summary of an Encounter for an Event)</a> .
				substanceAdministration/entryRelationship[context]/@typeCode="COMP"	
				substanceAdministration/entryRelationship[context]/@inversionInd="true"	
				substanceAdministration/entryRelationship[context]/encounter	
MedicationStatement > <b>status</b>	A code representing the patient or other source's judgment about the state of the medication used that this statement is about. Generally this will be active or completed.	1..1	<a href="#">code</a>	substanceAdministration/statusCode	This CDA schema element is of type CodedSimpleValue (CS). <a href="#">Medication Act Status HL7 v3 (required)</a> <sup>1</sup>
MedicationStatement > <b>category</b>	Indicates where type of medication statement and where the medication is expected to be consumed or administered.	0..1	<a href="#">CodeableConcept</a>	substanceAdministration/entryRelationship[category]	
				substanceAdministration/entryRelationship[category]/@typeCode="COMP"	
				substanceAdministration/entryRelationship[category]/observation	
				substanceAdministration/entryRelationship[category]/observation/@classCode="OBS"	
				substanceAdministration/entryRelationship[category]/observation/@moodCode="EVN"	
				substanceAdministration/entryRelationship[category]/observation/code	
				substanceAdministration/entryRelationship[category]/observation/code/@code="276339004"	
				substanceAdministration/entryRelationship[category]/observation/code/@codeSystem="2.16.840.1.113883.6.96"	<a href="#">SNOMED CT</a>
				substanceAdministration/entryRelationship[category]/observation/code/@displayName	displayName <b>SHOULD</b> be "Environment".
				substanceAdministration/entryRelationship[category]/observation/value	value/@xsi:type <b>SHALL</b> be "CD". value/originalText or value/@displayName <b>SHALL</b> be included. <a href="#">Medication usage category codes (preferred)</a> <sup>2</sup>

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
MedicationStatement > <b>medication[x]</b>	Identifies the medication being administered. This is either a link to a resource representing the details of the medication or a simple attribute carrying a code that identifies the medication from a known list of medications.	1..1	<a href="#">Reference</a> (Base Medication)	substanceAdministration/consumable	manufacturedProduct <b>SHALL</b> conform to the template defined in <a href="#">manufacturedProduct</a> (Base Medication).
				substanceAdministration/consumable/manufacturedProduct	
MedicationStatement > <b>effective[x]</b>	The interval of time during which it is being asserted that the patient was taking the medication (or was not taking, when the wasNotGiven element is true).	0..1	<a href="#">dateTime</a>   <a href="#">Period</a>	substanceAdministration/effectiveTime[med_eff]	
MedicationStatement > <b>dateAsserted</b>	The date when the medication statement was asserted by the information source.	0..1	<a href="#">dateTime</a>	n/a	This logical element has no mapping to CDA.
MedicationStatement > <b>informationSource</b>	The person or organization that provided the information about the taking of this medication. Note: Use derivedFrom when a MedicationStatement is derived from other resources, e.g Claim or MedicationRequest.	0..1	<a href="#">Reference</a> (Base RelatedPerson   Base Patient   Base Practitioner)	substanceAdministration/informant	If this informant is not instantiated, the data is considered to be included via induction in patientRole.  informant <b>SHALL</b> conform to one of the templates defined in: <a href="#">informant</a> (Base RelatedPerson) or <a href="#">informant</a> (Base Patient) or <a href="#">informant</a> (Base Practitioner).
MedicationStatement > <b>subject</b>	The person, animal or group who is/was taking the medication.	1..1	<a href="#">Reference</a> (Patient with Mandatory Identifier)	n/a	Not mapped directly for this model; this is implicit in patientRole.
MedicationStatement > <b>taken</b>	Indicator of the certainty of whether the medication was taken by the patient.	1..1	<a href="#">code</a>	See: instantiation choices	<p>This logical element may have a value of y   n   unk   na as per <a href="#">MedicationStatementTaken (required)</a></p> <p><b>instantiation choices:</b></p> <p>When the logical assertion is "y", there is no direct mapping into CDA as this is implicit in the instantiation of the substanceAdministration class.</p> <p>When the logical assertion is "n", taken <b>SHALL</b> be instantiated as substanceAdministration/@negationInd="true" unless status is "new" or "suspended" in which case this is implicit in the statusCode; a negationInd <b>SHALL NOT</b> be present where substanceAdministration/statusCode/@code is "new" or "suspended".</p> <p>When the logical assertion is "unk" or "na", taken <b>SHALL</b> be instantiated as substanceAdministration/@nullFlavor="UNK" or substanceAdministration/@nullFlavor="NA" respectively.</p>

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
MedicationStatement > reason-NotTaken	A code indicating why the medication was not taken.	0..*	<a href="#">CodeableConcept</a>	substanceAdministration/entryRelationship[not_taken] substanceAdministration/entryRelationship[not_taken]/@typeCode="COMP" substanceAdministration/entryRelationship[not_taken]/observation substanceAdministration/entryRelationship[not_taken]/observation/@classCode="OBS" substanceAdministration/entryRelationship[not_taken]/observation/@moodCode="EVN" substanceAdministration/entryRelationship[not_taken]/observation/code substanceAdministration/entryRelationship[not_taken]/observation/code/@code="103.32024" substanceAdministration/entryRelationship[not_taken]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" substanceAdministration/entryRelationship[not_taken]/observation/code/@displayName substanceAdministration/entryRelationship[not_taken]/observation/statusCode/@code="completed" substanceAdministration/entryRelationship[not_taken]/observation/value	reasonNotTaken <b>SHALL</b> only be present if the logical value of taken is "n" (substanceAdministration/@negationInd="true").  <a href="#">NCTIS Data Components</a> displayName <b>SHOULD</b> be "Reason for Status".  <a href="#">Medication Reason Not Taken (preferred)</a>

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
MedicationStatement > reason-Code	A reason for why the medication is being/was taken.	0..*	<a href="#">CodeableConcept</a>	substanceAdministration/entryRelationship[reason] substanceAdministration/entryRelationship[reason]/@typeCode="RSON" substanceAdministration/entryRelationship[reason]/observation substanceAdministration/entryRelationship[reason]/observation/@classCode="OBS" substanceAdministration/entryRelationship[reason]/observation/@moodCode="EVN" substanceAdministration/entryRelationship[reason]/observation/code substanceAdministration/entryRelationship[reason]/observation/code/@code="103.10141" substanceAdministration/entryRelationship[reason]/observation/code/@codeSystem="1.2.36.1.2001.1001.101" substanceAdministration/entryRelationship[reason]/observation/code/@displayName substanceAdministration/entryRelationship[reason]/observation/value	<a href="#">NCTIS Data Components</a> displayName <b>SHOULD</b> be "Clinical Indication". value/@xsi:type <b>SHALL</b> be "CD". value/originalText or value/@displayName <b>SHALL</b> be included. <a href="#">Medication Reason Taken (preferred)</a>

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
MedicationStatement > <b>note</b>	Provides extra information about the medication statement that is not conveyed by the other attributes.	0..*	<a href="#">Annotation</a>	<a href="#">substanceAdministration/entryRelationship[note]</a> <a href="#">substanceAdministration/entryRelationship[note]/@typeCode="COMP"</a> <a href="#">substanceAdministration/entryRelationship[note]/act</a> <a href="#">substanceAdministration/entryRelationship[note]/act/@classCode="ACT"</a> <a href="#">substanceAdministration/entryRelationship[note]/act/@moodCode="EVN"</a> <a href="#">substanceAdministration/entryRelationship[note]/act/code</a> <a href="#">substanceAdministration/entryRelationship[note]/act/code/@code="103.16044"</a> <a href="#">substanceAdministration/entryRelationship[note]/act/code/@codeSystem="1.2.36.1.2001.1001.101"</a> <a href="#">substanceAdministration/entryRelationship[note]/act/code/@displayName</a> <a href="#">substanceAdministration/entryRelationship[note]/act/author</a> <a href="#">substanceAdministration/entryRelationship[note]/act/effectiveTime</a> <a href="#">substanceAdministration/entryRelationship[note]/act/text</a>	<a href="#">NCTIS Data Components</a> displayName <b>SHOULD</b> be "Additional Comments". If this author is not instantiated, the data is considered to be included via induction in ClinicalDocument/author. In CDA the cardinality of entryRelationship[note]/act/author is 0..*. In this template the cardinality of author <b>SHALL</b> be limited to 0..1. If this effectiveTime is not instantiated, the data is considered to be included via induction in ClinicalDocument/author/time. In CDA the cardinality of entryRelationship[note]/act/effectiveTime is 0..*. In this template the cardinality of effectiveTime <b>SHALL</b> be limited to 0..1. text/@xsi:type <b>SHALL</b> be "ST".

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
MedicationStatement > <b>dosage</b>	Indicates how the medication is/was or should be taken by the patient.	0..*	<a href="#">AU Base Dosage</a>	substanceAdministration/text	<p>When sending a PSML, dosage is not expected to be sent for a ceased medicine item (substanceAdministration/statusCode/@code is "completed" or "aborted").</p> <p>When sending a PSML, dosage is expected to be sent for a withheld medicine item (substanceAdministration/statusCode/@code is "suspended").</p> <p>In CDA the maximum occurrences of substanceAdministration/text is 1. The logical cardinality of 0..* may be supported by multiple statements within substanceAdministration/text or the use of additional elements as shown in the recommended mappings for the logical type.</p> <p>dosage <b>SHALL</b> at least include text or patient instructions instantiated as substanceAdministration/text.</p> <p>Recommended mappings for this logical type to CDA (R2) are available: <a href="#">AU Base Dosage</a>.</p>

<sup>1</sup>This value set differs from the value set bound to status in the Agency logical model (see [Shared Medicines List FHIR Implementation Guide \[DH2020I\]](#)) due to constraints on statusCode in the HL7 CDA Schema. The concept map [MedicationStatus \(HL7 FHIR\) to Medication Act Status HL7 v3](#) provides a mapping between the two value sets.

<sup>2</sup>This value set differs from the value set bound to category in the Agency logical model (see [Shared Medicines List FHIR Implementation Guide \[DH2020I\]](#)) due to pre-adoption of FHIR Release 4 terminology.

## 10.7 manufacturedProduct (Base Medication)

This template is referenced by [substanceAdministration \(Medicine Item Statement\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
Conformance level comes from linking elements		Context: Comes from linking elements			
<b>Medication</b>	Medication content use in an Australian context. Includes concepts that are specific to Australian usage.	Cardinal-ity comes from link-ing ele-ment	<a href="#">Medication</a>	<b>manufacturedProduct</b>	The use of templateId signals the imposition of a set of tem-plate-defined constraints.
				<b>manufacturedProduct/templateId</b>	
				<b>manufacturedProduct/templateId/@root="1.2.36.1.2001.1001.102.101.100068"</b>	
<b>Medication &gt; medication-brand-name</b>	The brand medication text name for an associated medication, this may be supplied if a coded brand name is not available.	0..1	<a href="#">string</a>	//entryRelationship[brand]	A medication-brand-name (entryRelationship[brand]) <b>SHALL</b> be a direct child of item (entryRelationship[item]).
				//entryRelationship[brand]/@typeCode="COMP"	For example act/entryRelationship[item]/substanceAdministra-tion/entryRelationship[brand].
				//entryRelationship[brand]/act	
				//entryRelationship[brand]/act/@classCode="ACT"	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">CodeableConcept as a Medicine Item Code</a> .
				//entryRelationship[brand]/act/@moodCode="EVN"	
				//entryRelationship[brand]/act/code	
				//entryRelationship[brand]/act/code/@code="1402141000168102"	
				//entryRelationship[brand]/act/code@codeSystem="2.16.840.1.113883.6.96"	<a href="#">SNOMED CT</a>
				//entryRelationship[brand]/act/code/@displayName	displayName <b>SHOULD</b> be "Branded product name".
				//entryRelationship[brand]/act/text	text/@xsi:type <b>SHALL</b> be "ST".

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
Medication > <b>medication-generic-name</b>	The generic medication text name for an associated medication, this may not be the same as the subject medication (prescribed, dispensed or stated) but may be used to provide an additional or equivalent drug name that is a generic medication concept.	0..1	<a href="#">string</a>	//entryRelationship[generic] //entryRelationship[generic]/@typeCode="COMP" //entryRelationship[generic]/act //entryRelationship[generic]/act/@classCode="ACT" //entryRelationship[generic]/act/@moodCode="EVN" //entryRelationship[generic]/act/code //entryRelationship[generic]/act/code/@code="1402131000168106" //entryRelationship[generic]/act/code/@codeSystem="2.16.840.1.113883.6.96" //entryRelationship[generic]/act/code/@displayName //entryRelationship[generic]/act/text	A medication-generic-name (entryRelationship[generic]) <b>SHALL</b> be a direct child of item (entryRelationship[item]).  For example act/entryRelationship[item]/substanceAdministration/entryRelationship[generic].  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">CodeableConcept as a Medicine Item Code</a> .
Medication > <b>code</b>	Australian coding slices are typical medicine/product concept codes.	1..1	<a href="#">CodeableConcept</a>	manufacturedProduct/manufacturedMaterial manufacturedProduct/manufacturedMaterial/@determinerCode="KIND" manufacturedProduct/manufacturedMaterial/code	When sending a PSML, PBS Item codes are expected to be sent as one or more translations of the AMT code.  code/originalText or code/@displayName <b>SHALL</b> be included. <a href="#">Australian Medication (preferred)</a> <a href="#">Australian Pharmaceutical Benefits Scheme Schedule Item (example)</a> <a href="#">MIMS Terminology (example)</a> <a href="#">GTIN for Medicines (example)</a>  Recommended mappings for this logical type to CDA (R2) are available: <a href="#">CodeableConcept as a Medicine Item Code</a> .
Medication > <b>status</b>	A code to indicate if the medication is in active use.	0..1	<a href="#">code</a>	n/a	Not mapped directly for this model; implicit in the status of the referencing act e.g. substanceAdministration/statusCode.
Medication > <b>manufacturer</b>	Manufacturer of the actual physical medicine product	0..1	<a href="#">Reference(Base Organization)</a>	manufacturedProduct/manufacturerOrganization	manufacturerOrganization <b>SHALL</b> conform to the template defined in <a href="#">manufacturerOrganization (Base Organization)</a> .
Medication > <b>form</b>	Describes the form of the item. Powder; tablets; capsule.	0..1	<a href="#">CodeableConcept</a>	manufacturedProduct/manufacturedMaterial/ext:formCode	ext:formCode/originalText or ext:formCode/@displayName <b>SHALL</b> be included.  <a href="#">Medication Form (preferred)</a>
Medication > <b>ingredient</b>	Identifies a particular constituent of interest in the product. Can be coded with AMT.	0..*	<a href="#">BackboneElement</a>	manufacturedProduct/manufacturedMaterial/ext:asIngredient	The common pattern <a href="#">Ingredient</a> <b>SHALL</b> be applied.

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
Medication > ingredient > item[x]	The actual ingredient - either a substance (simple ingredient) or another medication.	1.1	<a href="#">CodeableConcept</a>   <a href="#">Reference</a> (Base Substance   Base Medication)	manufacturedProduct/manufacturedMaterial/ext:asIngredient/ext:ingredientManufacturedMaterial	In CDA, item[x] is represented with ext:code regardless of the logical type.
				manufacturedProduct/manufacturedMaterial/ext:asIngredient/ext:ingredientManufacturedMaterial/ext:code	ext:code/originalText or ext:code/@displayName <b>SHALL</b> be included.  If item[x] is a <a href="#">CodeableConcept</a> , then <a href="#">AMT Medicinal Product (preferred)</a>  If item[x] is a <a href="#">Substance</a> , then <a href="#">Substance (preferred)</a> ; see <a href="#">&lt;Ingredient&gt;</a> for guidance on including additional available attributes.  If item[x] is a <a href="#">Medication</a> , then <a href="#">AMT Medicinal Product (preferred)</a> ; see <a href="#">&lt;Ingredient&gt;</a> for guidance on including additional available attributes.
Medication > ingredient > isActive	Indication of whether this ingredient affects the therapeutic action of the drug.	0.1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
Medication > ingredient > amount	Specifies how many (or how much) of the items there are in this Medication. For example, 250 mg per tablet. This is expressed as a ratio where the numerator is 250mg and the denominator is 1 tablet.	0.1	<a href="#">Ratio</a>	manufacturedProduct/manufacturedMaterial/ext:asIngredient/ext:quantity	
Medication > package	Information that only applies to packages (not products).	0.1	<a href="#">BackboneElement</a>	n/a	This logical element has no mapping to CDA.
Medication > package > batch	Information about a group of medication produced or packaged from one production run.	0.1	<a href="#">BackboneElement</a>	n/a	Not mapped separately; batch is implicit in the mapping of the child elements.
Medication > package > batch > lotNumber	The assigned lot number of a batch of the specified product.	0.1	<a href="#">string</a>	manufacturedProduct/manufacturedMaterial/lotNumberText	
Medication > package > batch > expirationDate	When this specific batch of product will expire.	0.1	<a href="#">dateTime</a>	manufacturedProduct/manufacturedMaterial/ext:expirationTime	

<sup>1</sup>The binding strength for the value sets additional to [Australian Medication](#) differs from the binding strength in the Agency logical model (see [Shared Medicines List FHIR Implementation Guide \[DH2020I\]](#)); this is due to normalising the representation of multiple optional terminology slices in a FHIR profile to this CDA mapping table.

## 10.8 ext:coverage2 (Practitioner qualification)

This template is referenced by [participant \(generalPractitioner Base Practitioner\)](#), [informant \(Base Practitioner\)](#), [assignedPerson \(Practitioner with Mandatory Identifier\)](#), [assignedPerson \(Base Practitioner\)](#), and [informationRecipient \(Base Practitioner\)](#).

See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CDA Header Data Elements</b>		Context: Comes from linking elements			
Practitioner > <b>qualification</b>	Qualifications obtained by training and certification.	Cardinality comes from linking element	<a href="#">BackboneElement</a>	<code>ext:coverage2[prac_qual]</code>	
				<code>ext:coverage2[prac_qual]/@typeCode="COVBY"</code>	
				<code>ext:coverage2[prac_qual]/templateId</code>	The use of templateId signals the imposition of a set of template-defined constraints.
				<code>ext:coverage2[prac_qual]/templateId/@root="1.2.36.1.2001.1001.102.101.100038"</code>	
				<code>ext:coverage2[prac_qual]/ext:entitlement</code>	
				<code>ext:coverage2[prac_qual]/ext:entitlement/@classCode="COV"</code>	
				<code>ext:coverage2[prac_qual]/ext:entitlement/@moodCode="EVN"</code>	
				<code>ext:coverage2[prac_qual]/ext:entitlement/ext:participant[prac]</code>	
				<code>ext:coverage2[prac_qual]/ext:entitlement/ext:participant[prac]/@typeCode="HLD"</code>	
				<code>ext:coverage2[prac_qual]/ext:entitlement/ext:participant[prac]/ext:participantRole</code>	
Practitioner > qualification > <b>identifier</b>	An identifier that applies to this person's qualification in this role.	0..*	<a href="#">Identifier</a>	<code>ext:coverage2[prac_qual]/ext:entitlement/ext:id</code>	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Identifier</a> .
Practitioner > qualification > <b>code</b>	Coded representation of the qualification.	1..1	<a href="#">CodeableConcept</a>	<code>ext:coverage2[prac_qual]/ext:entitlement/ext:code</code>	<code>ext:code/originalText</code> or <code>ext:code/@displayName</code> <b>SHALL</b> be included. <a href="#">v2 table 0360, Version 2.7 (example)</a>
Practitioner > qualification > <b>period</b>	Period during which the qualification is valid.	0..1	<a href="#">Period</a>	<code>ext:coverage2[prac_qual]/ext:entitlement/ext:effectiveTime</code>	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Practitioner > qualification > <b>issuer</b>	Organization that regulates and issues the qualification.	0..1	<a href="#">Reference(Organization)</a>	ext:coverage2[prac_qual]/ext:entitlement/ext:participant[issuer]  ext:coverage2[prac_qual]/ext:entitlement/ext:participant[issuer]/@typeCode="AUT"  ext:coverage2[prac_qual]/ext:entitlement/ext:participant[issuer]/ext:participantRole  ext:coverage2[prac_qual]/ext:entitlement/ext:participant[issuer]/ext:participantRole/@classCode="COMPAR"	

# 11 Common patterns

This chapter contains conformance requirements on CDA schema elements. These conformance rules apply across multiple templates, forming 'common patterns'.

## 11.1 Entity Identifier

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

### CDA mapping

Common pattern	CDA schema element	CDA element description	CDA card	CDA constraints and comments
Entity Identifier	ext:asEntityIdentifier	A number or code issued for the purpose of identifying a participant within a healthcare context.	Cardinality comes from linking element	
	ext:asEntityIdentifier/@classCode="IDENT"		1..1	
	ext:asEntityIdentifier/ext:id		1..1	
	ext:asEntityIdentifier/ext:id/@root		1..1	root <b>SHALL</b> be an OID and <b>SHALL NOT</b> be a UUID.
	ext:asEntityIdentifier/ext:id/@extension		0..1	
	ext:asEntityIdentifier/ext:id/@assigningAuthorityName		0..1	A name for the namespace represented in the root that is populated with the issuer, or identifier type, or a concatenation of both as appropriate. This is used for human-readable, not machine processing, purposes.  assigningAuthorityName <b>SHOULD</b> be instantiated.
	ext:asEntityIdentifier/ext:code		0..1	
	ext:asEntityIdentifier/ext:assigningGeographicArea		0..1	
	ext:asEntityIdentifier/ext:assigningGeographicArea/@classCode="PLC"		1..1	
	ext:asEntityIdentifier/ext:assigningGeographicArea/ext:name		0..1	The range and extent that the identifier applies to the object with which it is associated that is populated directly from the geographic area. This is used for human-readable, not machine processing, purposes.  ext:name <b>SHOULD</b> be instantiated.  <a href="#">Healthcare Identifier Geographic Area (preferred)</a>  This CDA schema element is expected to be populated with the display, e.g. "National Identifier".

## Examples

### Example 11.1. Entity Identifier - Australian IHI

```
<!-- Australian IHI -->
<xs:asEntityIdentifier classCode="IDENT">
<xs:id root="1.2.36.1.2001.1003.0.8003608833357361" assigningAuthorityName="IHI" />
<xs:assigningGeographicArea classCode="PLC">
  <xs:name>National Identifier</xs:name>
</xs:assigningGeographicArea>
</xs:asEntityIdentifier>
```

### Example 11.2. Entity Identifier - Local Medical Record Number

```
<!-- Local Medical Record Number -->
<xs:asEntityIdentifier classCode="IDENT">
<xs:id root="1.2.36.1.2001.1005.29.8003621566684455" extension="542181" assigningAuthorityName="Croydon GP Centre" />
  <xs:code code="MR" codeSystem="2.16.840.1.113883.12.203" codeSystemName="Identifier Type (HL7)" />
</xs:asEntityIdentifier>
```

### Example 11.3. Entity Identifier - Australian HPI-I

```
<!-- Australian HPI-I -->
<xs:asEntityIdentifier classCode="IDENT">
<xs:id assigningAuthorityName="HPI-I" root="1.2.36.1.2001.1003.0.8003610537409456" />
<xs:assigningGeographicArea classCode="PLC">
  <xs:name>National Identifier</xs:name>
</xs:assigningGeographicArea>
</xs:asEntityIdentifier>
```

### Example 11.4. Entity Identifier - Australian HPI-O

```
<!-- Australian HPI-O -->
<xs:asEntityIdentifier classCode="IDENT">
  <xs:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003621566684455" />
  <xs:assigningGeographicArea classCode="PLC">
    <xs:name>National Identifier</xs:name>
  </xs:assigningGeographicArea>
</xs:asEntityIdentifier>
```

## 11.2 Personal Relationship

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

### CDA mapping

Common pattern	CDA schema element	CDA element description	CDA card	CDA constraints and comments
Personal Relationship	ext:personalRelationship	The personal relationship of a participant to a patient. A personal relationship is not to be instantiated if the participant is a practitioner.	Cardinality comes from linking element	
	ext:personalRelationship/@classCode="PRS"		0..1	
	ext:personalRelationship/ext:id		0..1	
	ext:personalRelationship/ext:code		1..1	
	ext:personalRelationship/ext:statusCode		0..1	<a href="#">v3 Code System RoleStatus (required)</a>
	ext:personalRelationship/ext:effectiveTime		0..1	
	ext:personalRelationship/ext:asPersonalRelationship		1..1	
	ext:personalRelationship/ext:asPersonalRelationship/@classCode="PSN"		0..1	
	ext:personalRelationship/ext:asPersonalRelationship/@determinerCode="INSTANCE"		0..1	
	ext:personalRelationship/ext:asPersonalRelationship/id		1..1	This id <b>SHALL</b> hold the same value as patientRole/id.
	ext:personalRelationship/ext:asPersonalRelationship/administrativeGenderCode/@nullFlavor="NA"		1..1	Included for CDA conformance only.

## Examples

### Example 11.5. Personal Relationship - author related person

```
<!-- recordTarget (Patient) -->
<recordTarget>
  <patientRole>
    <!-- patient identifier-->
    <id extension="100543" root="2.16.840.1.113883.19.1.2.3.4"/>
  </patientRole>
</recordTarget>

<!-- author (RelatedPerson) -->
<author>
  <time value="200911031647+1000"/>
  <assignedAuthor>
    <!-- author identifier-->
    <id root="86d729b8-72d2-460a-a64c-489a51607450"/>
    <assignedPerson>
      <!-- personal relationship -->
      <ext:personalRelationship>
        <!--relationship-->
        <ext:code code="SIGOTHR" codeSystem="2.16.840.1.113883.5.111" codeSystemName="v3 Code System RoleCode" displayName="significant other" />
        <!--patient-->
        <ext:asPersonalRelationship>
          <!-- patient identifier-->
          <id extension="100543" root="2.16.840.1.113883.19.1.2.3.4"/>
          <administrativeGenderCode nullFlavor="NA" />
        </ext:asPersonalRelationship>
      </ext:personalRelationship>
    </assignedPerson>
  </assignedAuthor>
</author>
```

### Example 11.6. Personal Relationship - performer related person

```
<!-- recordTarget (Patient) -->
<recordTarget>
  <patientRole>
    <!-- patient identifier-->
    <id extension="100543" root="2.16.840.1.113883.19.1.2.3.4"/>
  </patientRole>
</recordTarget>

<!-- participant performer (RelatedPerson) -->
<participant typeCode="PRF">
  <associatedEntity classCode="ASSIGNED">
    <!--participant performer identifier-->
    <id root="f3351b5c-8a6c-437c-a55c-a6c121873456"/>
    <!-- personal relationship -->
    <associatedPerson>
      <ext:personalRelationship>
        <!--relationship-->
        <ext:code code="FAMMEMB" codeSystem="2.16.840.1.113883.5.111" codeSystemName="v3 Code System RoleCode" displayName="Family Member" />
    </associatedPerson>
  </associatedEntity>
</participant>
```

```
<!--patient-->
<ext:asPersonalRelationship>
  <!-- patient identifier-->
  <id extension="100543" root="2.16.840.1.113883.19.1.2.3.4" />
  <administrativeGenderCode nullFlavor="NA" />
</ext:asPersonalRelationship>
</ext:personalRelationship>
</associatedPerson>
</associatedEntity>
</participant>
```

## 11.3 Qualification

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

### CDA mapping

Common pattern	CDA schema element	CDA element description	CDA card	CDA constraints and comments
Qualification	ext:asQualifications	A list of professional certifications, and certificates recognising having passed a course.	Cardinality comes from linking element	
	ext:asQualifications/@classCode="QUAL"		1..1	
	ext:asQualifications/ext:code		1..1	Qualifications is a text field, so the text list is captured in ext:code/originalText.

## Examples

### Example 11.7. Qualification - Bachelor of Pharmacy

```
<!-- Qualification - Bachelor of Pharmacy -->
<ext:asQualifications classCode="QUAL">
<ext:code>
  <originalText>Bachelor of Pharmacy</originalText>
</ext:code>
</ext:asQualifications>
```

### Example 11.8. Qualification - List of qualifications

```
<!-- Qualification -->
<ext:asQualifications classCode="QUAL">
<ext:code>
  <originalText>Doctor of Medicine, Fellowship of the Australian College of Rural and Remote Medicine (FACRRM)</originalText>
</ext:code>
</ext:asQualifications>
```

## 11.4 Ingredient

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

### CDA mapping

Common pattern	CDA schema element	CDA element description	CDA card	CDA constraints and comments
Ingredient	ext:asIngredient	An ingredient of the medicine item.	Cardinality comes from linking element	
	ext:asIngredient/@classCode="INGR"		1..1	
	ext:asIngredient/ext:id		0..*	
	ext:asIngredient/ext:ingredientManufacturedMaterial		0..1	The substance that is the ingredient. This may be another medication.
	ext:asIngredient/ext:ingredientManufacturedMaterial/@classCode="MMAT"		1..1	
	ext:asIngredient/ext:ingredientManufacturedMaterial/@determinerCode="KIND"		1..1	
	ext:asIngredient/ext:ingredientManufacturedMaterial/ext:id		0..*	
	ext:asIngredient/ext:ingredientManufacturedMaterial/ext:code		0..1	Code for the substance.
	ext:asIngredient/ext:ingredientManufacturedMaterial/ext:desc		0..1	Name and/or description of the substance.
	ext:asIngredient/ext:ingredientManufacturedMaterial/ext:expirationTime		0..1	ext:expirationTime is discouraged from use.
	ext:asIngredient/ext:ingredientManufacturedMaterial/ext:quantity		0..1	ext:quantity <b>SHOULD NOT</b> be instantiated as the determinerCode is fixed to "KIND".
	ext:asIngredient/ext:quantity		0..1	This CDA schema element is of type Ratio Physical Quantity / Physical Quantity (RTO_PQ_PQ). Strength (amount) of the substance as an ingredient in the medicine item, e.g. 2% of the ingredient or 5mg of the ingredient or 10mg of the ingredient per ml or 250 mg per tablet.

## Examples

### Example 11.9. Ingredient - Medication active ingredient with amount

```
<!--Medication-->
<consumable>
<manufacturedProduct>
  <manufacturedMaterial>
    <!--Medication.code-->
    <code code="22048011000036105"
      codeSystem="2.16.840.1.113883.6.96"
      codeSystemName="SNOMED CT"
      displayName="amoxicillin 250 mg chewable tablet">
    </code>
    <!--Medication.ingredient-->
    <ext:asIngredient classCode="INGR">
      <ext:ingredientManufacturedMaterial classCode="MMAT" determinerCode="KIND">
        <!--Medication.ingredient.item[x]-->
        <ext:code code="21415011000036100"
          codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED CT"
          displayName="amoxicillin"/>
      </ext:ingredientManufacturedMaterial>
    <!--Medication.ingredient.amount-->
    <ext:quantity>
      <numerator unit="mg" value="250"/>
      <denominator value="1"/>
    </ext:quantity>
  </ext:asIngredient>
</manufacturedMaterial>
</manufacturedProduct>
</consumable>
```

## 11.5 Language Communication

See [Legend - CDA mapping table for CDA schema elements](#) for an explanation of mapping table presentation.

### CDA mapping

Common pattern	CDA schema element	CDA element description	CDA card	CDA constraints and comments
Language Communication	ext:languageCommunication	A language communication capability of an individual.	Cardinality comes from linking element	
	ext:languageCommunication/languageCode		1..1	This CDA schema element is of type CodedSimpleValue (CS). <a href="#">All Languages (required)</a> <a href="#">Common Languages in Australia (extensible)</a>
	ext:languageCommunication modeCode		0..1	<a href="#">v3 Code System LanguageAbilityMode (preferred)</a>
	ext:languageCommunication/proficiencyLevelCode		0..1	<a href="#">v3 Code System LanguageAbilityProficiency (preferred)</a>
	ext:languageCommunication/preferenceInd		0..1	This CDA schema element is of type Boolean (BL).

## Examples

### Example 11.10. Language Communication - English is preferred

```
<!-- Language Communication -->
<ext:languageCommunication>
  <languageCode code="en"/>
  <preferenceInd value="true"/>
</ext:languageCommunication>
```

### Example 11.11. Language Communication - Pitjantjatjara is preferred

```
<!-- Language Communication -->
<ext:languageCommunication>
  <languageCode code="pjt"/>
</ext:languageCommunication>
```

### Example 11.12. Language Communication - German is spoken

```
<!-- Language Communication -->
<ext:languageCommunication>
  <languageCode code="de"/>
</ext:languageCommunication>
```



# Appendix A. Complex data type mappings to CDA (R2)

This informative appendix provides some guidance on how [FHIR Release 3 \(STU\) \[HL7FHIR3\]](#) complex data types referred to in the body of this specification can map to CDA (R2). The material provided are recommendations and do not represent conformance requirements.

## A.1 Identifier

This informative appendix provides some guidance on how the complex data type [Identifier](#) can map to CDA (R2). In addition to material provided in this implementation guide some guidance on representation of common identifiers in CDA is provided by [Representation of Common Australian Identifiers in v2 and CDA \[HI2011\]](#) and [Common - Clinical Document \[DH2019a\]](#).

The mapping table below provides a set of preferred mappings to the InstanceIdentifier (II) data type [\[HL7V3\]](#) and the Entity Identifier (EntityIdentifier) type defined in the Australian Digital Health Agency CDA schema, and do not represent conformance requirements. See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

## CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>Identifier</b>	A technical identifier - identifies some entity uniquely and unambiguously.	Cardinality comes from linking element	<a href="#">Element</a>	See: instantiation choices	<p>In CDA it is possible that an identifier is formed such that the system and value are both part of the value of the root attribute. In this circumstance the extension attribute <b>SHOULD NOT</b> be instantiated.</p> <p><b>instantiation choices:</b></p> <p>If the identifier is for a <a href="#">Patient</a>, <a href="#">Practitioner</a>, <a href="#">PractitionerRole</a>, <a href="#">Organization</a>, <a href="#">RelatedPerson</a>, or <a href="#">Device</a>, then the identifier is expected to be instantiated as ext:asEntityIdentifier/@classCode="IDENT". See &lt;Entity Identifier&gt; for available attributes.</p> <p>The identifier element may be instantiated as id.</p>
<b>Identifier &gt; use</b>	The purpose of this identifier.	0..1	<a href="#">code</a>	n/a	This logical element has no mapping to CDA.
<b>Identifier &gt; type</b>	A coded type for the identifier that can be used to determine which identifier to use for a specific purpose.	0..1	<a href="#">CodeableConcept</a>	//ext:asEntityIdentifier/ext:code	<p>ext:code is only available if the identifier is instantiated as ext:asEntityIdentifier/@classCode="IDENT". ext:code/originalText or ext:code/@displayName <b>SHALL</b> be included.</p> <p><a href="#">Identifier Type Codes (extensible)</a></p>
<b>Identifier &gt; system</b>	Establishes the namespace for the value - that is, a URL that describes a set values that are unique.	0..1	<a href="#">uri</a>	See: instantiation choices	<p><b>instantiation choices:</b></p> <p>If the identifier is for a if the identifier is for a <a href="#">Patient</a>, <a href="#">Practitioner</a>, <a href="#">PractitionerRole</a>, <a href="#">Organization</a>, <a href="#">RelatedPerson</a>, or <a href="#">Device</a>, then the identifier system is expected to be instantiated as ext:asEntityIdentifier/ext:id/@root.</p> <p>The identifier system may be instantiated as id/@root.</p>
<b>Identifier &gt; value</b>	The portion of the identifier typically relevant to the user and which is unique within the context of the system.	0..1	<a href="#">string</a>	See: instantiation choices	<p><b>instantiation choices:</b></p> <p>If the identifier is for a if the identifier is for a <a href="#">Patient</a>, <a href="#">Practitioner</a>, <a href="#">PractitionerRole</a>, <a href="#">Organization</a>, <a href="#">RelatedPerson</a>, or <a href="#">Device</a>, then identifier value is expected to be instantiated as ext:asEntityIdentifier/ext:id/@extension.</p> <p>The identifier value may be instantiated as id/@extension.</p>

Logical element	Logical element description	Logic-al card	Logical type	CDA schema element	CDA constraints and comments
Identifier > period	Time period during which identifier is/was valid for use.	0..1	<a href="#">Period</a>	n/a	This logical element has no mapping to CDA.
Identifier > assigner	Organization that issued/manages the identifier.	0..1	<a href="#">Reference (Organ-ization)</a>	See: instantiation choices	<b>instantiation choices:</b>  If the identifier is for a <a href="#">Patient</a> , <a href="#">Practitioner</a> , <a href="#">PractitionerRole</a> , <a href="#">Organization</a> , <a href="#">RelatedPerson</a> , or <a href="#">Device</a> , then identifier assigner is expected to be instantiated as ext:asEntityIdentifier/ext:id/@assigningAuthorityName.  The identifier assigner may be instantiated as id/@assigningAuthorityName.

## Examples

### Example A.1. Identifier - Patient identifiers

```
<!-- subject -->
<recordTarget>
  <!-- subject (Patient) -->
  <patientRole>
    <patient>
      ...
      <!-- Patient.identifier as an Australian IHI -->
      <ext:asEntityIdentifier classCode="IDENT">
        <!-- identifier.type.text=IHI,
        identifier.value=800360020002222,
        identifier.system=http://ns.electronichealth.net.au/id/hi/ihi/1.0 -->
        <ext:id assigningAuthorityName="IHI" root="1.2.36.1.2001.1003.0.800360020002222" />
        <ext:assigningGeographicArea classCode="PLC">
          <ext:name>National Identifier</ext:name>
        </ext:assigningGeographicArea>
      </ext:asEntityIdentifier>

      <!-- Patient.identifier as an Institution Medical Record-->
      <ext:asEntityIdentifier classCode="IDENT">
        <!-- identifier.assigner=Croydon GP Centre,
        identifier.value=542181,
        identifier.system=urn:oid:1.2.36.1.2001.1005.29.8003621566684455 -->
        <ext:id root="1.2.36.1.2001.1005.29.8003621566684455" extension="542181" assigningAuthorityName="Croydon GP Centre" />
        <!-- Patient.identifier.type -->
        <ext:code code="MR" codeSystem="2.16.840.1.113883.12.203" codeSystemName="Identifier Type (HL7)" />
      </ext:asEntityIdentifier>

      <!-- Patient.identifier as a Medicare Number -->
      <ext:asEntityIdentifier classCode="IDENT">
        <!-- identifier.system=urn:oid:1.2.36.1.5001.1.0.7,
        identifier.value=123456789,
        identifier.assigner=Medicare Card Number -->
        <ext:id assigningAuthorityName="Medicare Card Number"
        root="1.2.36.1.5001.1.0.7" extension="1234567892"/>
        <ext:code code="MC" codeSystem="2.16.840.1.113883.12.203"
        codeSystemName="Identifier Type (HL7)" displayName="Patient's Medicare number" />
    </ext:asEntityIdentifier>
```

```

<!-- Identifier.period is not available in an asEntityIdentifier class -->
</ext:asEntityIdentifier>

<!-- Patient.identifier as a DVA Number -->
<ext:asEntityIdentifier classCode="IDENT">
<!-- identifier.system=urn:oid:2.16.840.1.113883.3.879.270091,
    identifier.value=NBUR9080,
    identifier.assigner=Department of Veterans' Affairs -->
<ext:id assigningAuthorityName="Department of Veterans' Affairs"
  root="2.16.840.1.113883.3.879.270091" extension="NBUR9080"/>
<ext:code code="DVG" codeSystem="2.16.840.1.113883.2.3.4.1.1.203"
  codeSystemName="HL7V2Table0203IdentifierTypeAUExtended" displayName="DVA Gold Card Number"/>
<!-- Identifier.period is not available in an asEntityIdentifier class -->
</ext:asEntityIdentifier>

<!-- Patient.identifier as a Healthcare card number -->
<ext:asEntityIdentifier classCode="IDENT">
<!-- identifier.system=urn:oid:2.16.840.1.113883.3.879.270098,
    identifier.value=307111942H,
    identifier.assigner=Centrelink customer reference number -->
<ext:id assigningAuthorityName="Centrelink customer reference number"
  root="2.16.840.1.113883.3.879.270098" extension="307111942H"/>
<ext:code code="HC" codeSystem="2.16.840.1.113883.12.203"
  codeSystemName="Identifier Type (HL7)" displayName="Health Card Number"/>
</ext:asEntityIdentifier>

</patient>
</patientRole>
</recordTarget>

```

## Example A.2. PractitionerRole identifiers

```

<author>
  <time value="200911031647+1000"/>
<!-- author (PractitionerRole) -->
<assignedAuthor>
  <!-- PractitionerRole.id -->
  <id root="86d729b8-72d2-460a-a64c-489a51607450"/>
<!-- PractitionerRole.practitioner(Practitioner) -->
<assignedPerson>
  <!-- Practitioner.identifier as an Australian HPI-I -->
  <ext:asEntityIdentifier classCode="IDENT">
    <!-- identifier.value=8003610537409456,
        identifier.system=urn:oid:1.2.36.1.2001.1003.0,
        identifier.assigner=HPI-I -->
    <ext:id assigningAuthorityName="HPI-I"
      root="1.2.36.1.2001.1003.0.8003610537409456"/>
    <ext:assigningGeographicArea classCode="PLC">
      <ext:name>National Identifier</ext:name>
    </ext:assigningGeographicArea>
  </ext:asEntityIdentifier>
<!-- PractitionerRole.identifier as an ABN scoped provider identifier -->
<ext:asEntityIdentifier classCode="IDENT">
  <!-- identifier.value=8003610537409456,
      identifier.system=urn:oid:1.2.36.1.2001.1003.0,
      identifier.assigner=HPI-I -->
  <ext:id assigningAuthorityName="Albion Hospital",

```

```
root="1.2.36.1.2001.1005.70.51824753556"
extension="peterwinslow44" />
<!-- identifier.type -->
<ext:code code="EI"
  codeSystem="2.16.840.1.113883.18.108"
  codeSystemName="v2 Identifier Type"
  displayName="Employee number" />
</ext:asEntityIdentifier>
</assignedPerson>
</assignedAuthor>
<!--PractitionerRole.organization (Organization)-->
<representedOrganization>
<!-- Organization.name -->
<name>Albion Hospital</name>
<!--Organization.identifier as an ABN-->
<ext:asEntityIdentifier classCode="IDENT">
  <!-- identifier.value=51824754455,
  identifier.system=urn:oid:1.2.36,
  identifier.assigner=ABN -->
  <ext:id root="1.2.36.51824754455" assigningAuthorityName="ABN" />
  <!-- identifier.type -->
  <ext:code code="XX"
    codeSystem="2.16.840.1.113883.12.203" />
</ext:asEntityIdentifier>
</representedOrganization>
</author>
```

#### Example A.3. Identifier - Organization identifier

```
<custodian>
<!-- custodian (Organization)-->
<assignedCustodian>
<representedCustodianOrganization>
<!-- Organization.id-->
<id root="d0455def-ff37-4ebe-97fb-52db7224b148" />
<!-- Organization.identifier as a Laboratory NATA Identifier -->
<ext:asEntityIdentifier classCode="IDENT">
  <!-- identifier.system.value=urn:oid:1.2.36.1.2001.1005.12,
  identifier.value=2184,
  identifier.assigner=NATA -->
  <ext:id assigningAuthorityName="NATA"
    root="1.2.36.1.2001.1005.12" extension="2184" />
  <!-- identifier.type -->
  <ext:code code="XX" codeSystem="2.16.840.1.113883.12.203" />
</ext:asEntityIdentifier>
</representedCustodianOrganization>
</assignedCustodian>
</custodian>
```

#### Example A.4. Identifier - ProcedureRequest identifier

```
<!--DiagnosticReport.basedOn-->
<inFulfillmentOf typeCode="FLFS" >
```

```
<!--ProcedureRequest-->
<order classCode="ACT" moodCode="RQO">
  <!-- ProcedureRequest.identifier
  identifier.system=urn:oid:1.2.36.1.2001.1005.52.8003621566684455, identifier.value=123451 -->
  <id extension="123451" root="1.2.36.1.2001.1005.52.8003621566684455" />
</order>
</in FulfillmentOf>
```

## A.2 Base HumanName

This informative appendix provides some guidance on how the constrained form of complex data type [HumanName](#) as Base HumanName published by the Australian Digital Health Agency can map to CDA (R2).

The mapping table below provides a set of preferred mappings to the PersonName (PN) data type [\[HL7V3\]](#) for representing an Australian address and do not represent conformance requirements. See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>HumanName</b>	A human's name with the ability to identify parts and usage.	Cardinality comes from linking element	<a href="#">Element</a>	//name	<p>name <b>SHALL</b> have at least text (name with full text representation) or family (name/family) or given (name/given) instantiated.</p> <p>In CDA, a full text representation of a name is not to be included in the same instance as a structured representation with the same name parts. Either the free text representation or a name with structure (e.g. name/family or name/given) should be provided but not both.</p>
<b>HumanName &gt; use</b>	Identifies the purpose for this name.	0..1	<a href="#">code</a>	//name/@use	<a href="#">Common Person Name Use (required)<sup>1</sup></a>
<b>HumanName &gt; text</b>	A full text representation of the name.	0..1	<a href="#">string</a>	//name	
<b>HumanName &gt; family</b>	The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the family name of a son is the first name of his father.	0..1	<a href="#">string</a>	//name/family	
<b>HumanName &gt; given</b>	Given name.	0..*	<a href="#">string</a>	//name/given	
<b>HumanName &gt; prefix</b>	Part of the name that is acquired as a title due to academic, legal, employment or nobility status, etc. and that appears at the start of the name.	0..*	<a href="#">string</a>	//name/prefix	A prefix value can be populated as described in <a href="#">AS 4846 (2014) – Person and provider identification in healthcare [SA2014a]</a> , 4.4.2 Name Title.
<b>HumanName &gt; suffix</b>	Part of the name that is acquired as a title due to academic, legal, employment or nobility status, etc. and that appears at the end of the name.	0..*	<a href="#">string</a>	//name/suffix	A suffix value can be populated as described in <a href="#">AS 4846 (2014) – Person and provider identification in healthcare [SA2014a]</a> , 4.5.3.2 Name Suffix.
<b>HumanName &gt; period</b>	Indicates the period of time when this name was valid for the named person.	0..1	<a href="#">Period</a>	//name/validTime	

<sup>1</sup>This value set differs from the value set bound to use in [HumanName](#) due to constraints on @use in the HL7 CDA Schema. The concept map [NameUse \(HL7 FHIR\) to Common Person Name Use](#) provides a mapping between the two value sets.

## Examples

### Example A.5. Base HumanName - name use, given names, family name

```
<!-- HumanName where use=official -->
<name use="C">
  <!-- HumanName.given -->
  <given>Adam</given>
  <!-- HumanName.given -->
  <given>A.</given>
  <!-- HumanName.family -->
  <family>Everyman</family>
</name>
```

### Example A.6. Base HumanName - unstructured name

```
<!-- HumanName where use=official -->
<name use="C">
  <!-- HumanName.text -->
  Adam A. Everyman
</name>
```

### Example A.7. Base HumanName - given name only

```
<!-- HumanName where use=usual -->
<name>
  <!-- HumanName.given -->
  <given>Damo</given>
</name>
```

### Example A.8. Base HumanName - structured name with period

```
<!-- HumanName where use=old -->
<name use="DN">
  <!-- HumanName.given -->
  <given>Adam</given>
  <!-- HumanName.given -->
  <given>A.</given>
  <!-- HumanName.family -->
  <family>Adamson</family>
  <!-- HumanName.period -->
  <validTime xsi:type="IVL_TS">
    <low value="01012001" />
    <high value="01012012" />
```

```
</validTime>  
</name>
```

## A.3 Address

This informative appendix provides some guidance on how the complex data type [Address](#) can map to CDA (R2).

The mapping table below provides a set of preferred mappings to the PostalAddress (AD) data type [\[HL7V3\]](#) and do not represent conformance requirements. See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>Address</b>	An address expressed using postal conventions (as opposed to GPS or other location definition formats). This data type may be used to convey addresses for use in delivering mail as well as for visiting locations which might not be valid for mail delivery. There are a variety of postal address formats defined around the world.	Cardinality comes from linking element	<a href="#">Element</a>	//addr	
<b>Address &gt; use</b>	The purpose of this address.	0..1	<a href="#">code</a>	//addr/@use	addr/@use can carry more than one value by a space separated list of codes. <a href="#">Address Use HL7 v3 (required)</a> <sup>1</sup>
<b>Address &gt; type</b>	Distinguishes between physical addresses (those you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most addresses are both.	0..1	<a href="#">code</a>	//addr/@use	addr/@use can carry more than one value by a space separated list of codes. <a href="#">Address Type HL7 v3 (required)</a> <sup>2</sup>
<b>Address &gt; text</b>	A full text representation of the address.	0..1	<a href="#">string</a>	//addr	The expectation is that this is free text.
<b>Address &gt; line</b>	This component contains the house number, apartment number, street name, street direction, P.O. Box number, delivery hints, and similar address information.	0..*	<a href="#">string</a>	//addr/streetAddressLine	
<b>Address &gt; city</b>	The name of the city, town, village or other community or delivery center.	0..1	<a href="#">string</a>	//addr/city	
<b>Address &gt; district</b>	The name of the administrative area (county).	0..1	<a href="#">string</a>	//addr/county	
<b>Address &gt; state</b>	Sub-unit of a country with limited sovereignty in a federally organized country. A code may be used if codes are in common use (i.e. US 2 letter state codes).	0..1	<a href="#">string</a>	//addr/state	
<b>Address &gt; postalCode</b>	A postal code designating a region defined by the postal service.	0..1	<a href="#">string</a>	//addr/postalCode	
<b>Address &gt; country</b>	Country - a nation as commonly understood or generally accepted.	0..1	<a href="#">string</a>	//addr/country	<a href="#">Iso 3166 Part 1: 2 Letter Codes (preferred)</a>
<b>Address &gt; period</b>	Time period when address was/is in use.	0..1	<a href="#">Period</a>	//addr/useablePeriod	

<sup>1</sup>This value set differs from the value set bound to use in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [y3 map for AddressUse](#) provides a mapping between the two value sets.

<sup>2</sup>This value set differs from the value set bound to type in [Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressType](#) provides a mapping between the two value sets.

## Examples

### Example A.9. Address - structured work and postal address

```
<!-- Address where use=work and type=postal -->
<addr use="PST WP">
  <!--Address.text-->
  1050 W Wishard Blvd
  RG
  5th floor
  Indianapolis, IN 46240
  <!--Address.line-->
  <streetAddressLine>1050 W Wishard Blvd</streetAddressLine>
  <!--Address.line-->
  <streetAddressLine>RG 5th floor</streetAddressLine>
  <!--Address.city-->
  <city>Indianapolis</city>
  <!--Address.state-->
  <state>IN</state>
  <!--Address.postalCode-->
  <postalCode>46240</postalCode>
</addr>
```

### Example A.10. Address - structured home and physical address

```
<!-- Address where use=home and type=physical -->
<addr use="PHYS H">
  <!--Address.text-->
  1 Back Lane&#13;&#10;Holmfirth&#13;&#10;HUDDERSFIELD&#13;&#10;HD7 1HQ
  <!--Address.line-->
  <streetAddressLine>1 Back Lane</streetAddressLine>
  <!--Address.city-->
  <city>Holmfirth</city>
  <!--Address.district-->
  <county>HUDDERSFIELD</county>
  <!--Address.postalCode-->
  <postalCode>HD7 1HQ</postalCode>
</addr>
```

### Example A.11. Address - temporary international address

```
<!-- Address where use=old -->
<addr use="TMP">
  <!--Address.line-->
  <streetAddressLine>Rue Lougoraia 12, app. 10</streetAddressLine>
```

```
<!--Address.city-->
<city>Korolevo</city>
<!--Address.state-->
<state>Minsk</state>
<!--Address.country-->
<country>BELARUS</country>
<!--Address.period-->
<useablePeriod xsi:type="IVL_TS">
    <low value="01012001" />
    <high value="01012012" />
</useablePeriod>
</addr>
```

## A.4 AU Base Address

This informative appendix provides some guidance on how the constrained form of complex data type [Address](#) as [AU Base Address](#) published by HL7 Australia can map to CDA (R2).

The mapping table below provides a set of preferred mappings to the PostalAddress (AD) data type [\[HL7V3\]](#) for representing an Australian address and do not represent conformance requirements. See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Address	An Australian address expressed using postal conventions (as opposed to GPS or other location definition formats).	Cardinality comes from linking element	<a href="#">Element</a>	//addr	addr <b>SHALL</b> have text or one or more line (addr/streetAddressLine).
Address > <b>no-fixed-address</b>	No fixed address indicator.	0..1	<a href="#">boolean</a>	n/a	Not mapped directly; if 0..1 is "true", addr <b>SHOULD</b> be "NO FIXED ADDRESS" and addr/@use <b>SHOULD</b> be "PHYS".
Address > <b>use</b>	The purpose of this address.	0..1	<a href="#">code</a>	//addr/@use	addr/@use can carry more than one value by a space separated list of codes. <a href="#">Address Use HL7 v3 (required)</a> <sup>1</sup>
Address > <b>type</b>	Distinguishes between physical addresses (those you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most addresses are both.	0..1	<a href="#">code</a>	//addr/@use	addr/@use can carry more than one value by a space separated list of codes. <a href="#">Address Type HL7 v3 (required)</a> <sup>2</sup>
Address > <b>text</b>	A full text representation of the address.	0..1	<a href="#">string</a>	//addr	The expectation is that this is free text.
Address > <b>line</b>	This component contains the house number, apartment number, street name, street direction, P.O. Box number, delivery hints, and similar address information.	0..*	<a href="#">string</a>	//addr/streetAddressLine	
Address > <b>city</b>	The name of the city, town, village or other community or delivery center.	0..1	<a href="#">string</a>	//addr/city	
Address > <b>district</b>	The name of the administrative area (county).	0..1	<a href="#">string</a>	//addr/county	
Address > <b>state</b>	Sub-unit of a country with limited sovereignty in a federally organized country. A code may be used if codes are in common use (i.e. US 2 letter state codes).	0..1	<a href="#">string</a>	//addr/state	state <b>SHALL</b> be populated with the code e.g. "NT". <a href="#">Australian States and Territories (required)</a>
Address > <b>postalCode</b>	A postal code designating a region defined by the postal service.	0..1	<a href="#">string</a>	//addr/postalCode	The maximum length of postalCode <b>SHALL</b> be 4.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Address > <b>country</b>	Fixed value if present otherwise assumed to be Australia in this context.	0..1	<a href="#">string</a>	//addr/country	country <b>SHALL</b> be "AU".
Address > <b>period</b>	Time period when address was/is in use.	0..1	<a href="#">Period</a>	//addr/useablePeriod	

<sup>1</sup>This value set differs from the value set bound to use in [AU Base Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressUse](#) provides a mapping between the two value sets.

<sup>2</sup>This value set differs from the value set bound to type in [AU Base Address](#) due to constraints on @use in the HL7 CDA schema. The concept map [v3 map for AddressType](#) provides a mapping between the two value sets.

## Examples

### Example A.12. AU Base Address - no fixed address in Melbourne, VIC

```
<!-- Australian Address with no fixed address in Melbourne, VIC-->
<addr use="PHYS">
<!--Address.text-->
NO FIXED ADDRESS
<!--Address.city-->
<city>Melbourne</city>
<!--Address.state-->
<state>VIC</state>
</addr>
```

### Example A.13. AU Base Address - unstructured address

```
<!-- Australian Address with only text-->
<addr use="PHYS">
<!--Address.text-->
Level 1, 300 George St, Brisbane, QLD 4000
</addr>
```

### Example A.14. AU Base Address - structured postal address with period

```
<!-- Australian Address where use=work and type=postal -->
<addr use="PST_WP">
<!--Address.line-->
<streetAddressLine>Northern Territory Office, Department of Addresses, GPO Box 19132110</streetAddressLine>
<!--Address.city-->
<city>Darwin</city>
<!--Address.state-->
<state>NT</state>
<!--Address.postalCode-->
<postalCode>0801</postalCode>
<!--Address.country-->
```

```
<country>AU</country>
<!--Address.period-->
<useablePeriod xsi:type="IVL_TS">
  <low value="200311031647+1000" />
</useablePeriod>
</addr>
```

#### Example A.15. AU Base Address - structured physical address

```
<!-- Australian Address where use=work and type=physical -->
<addr use="PHYS WP">
<!--Address.line-->
<streetAddressLine>5th Floor, Northern Territory House, 223 Mitchell Street</streetAddressLine>
<!--Address.city-->
<city>Darwin</city>
<!--Address.state-->
<state>NT</state>
<!--Address.postalCode-->
<postalCode>0800</postalCode>
<!--Address.country-->
<country>AU</country>
</addr>
```

## A.5 ContactPoint

This informative appendix provides some guidance on how the complex data type [ContactPoint](#) can map to CDA (R2).

The mapping table below provides a set of preferred mappings to the TelecommunicationAddress (TEL) data type [\[HL7V3\]](#) and do not represent conformance requirements. See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
ContactPoint	Details for all kinds of technology mediated contact points for a person or organization, including telephone, email, etc.	Cardinality comes from linking element	<a href="#">Element</a>	//telecom	In CDA, ContactPoint value and system are represented as parts of telecom/@value.  If ContactPoint value is present, ContactPoint system <b>SHALL</b> be present.
ContactPoint > <b>system</b>	Telecommunications form for contact point - what communications system is required to make use of the contact.	0..1	<a href="#">code</a>	//telecom/@value	Makes up part of the attribute: "system:value", e.g. "tel:phone number", "mailto:email address", "http:URL", etc.  <a href="#">HL7 URLScheme (required)</a>
ContactPoint > <b>value</b>	The actual contact point details, in a form that is meaningful to the designated communication system (i.e. phone number or email address).	0..1	<a href="#">string</a>	//telecom/@value	Makes up the part of the attribute: "system:value", e.g. "tel:phone number", "mailto:email address", "http:URL", etc.
ContactPoint > <b>use</b>	Identifies the purpose for the contact point.	0..1	<a href="#">code</a>	//telecom/@use	<a href="#">HL7 TelecommunicationAddressUse (required)<sup>1</sup></a>
ContactPoint > <b>rank</b>	Specifies a preferred order in which to use a set of contacts. Contacts are ranked with lower values coming before higher values.	0..1	<a href="#">positiveInt</a>	n/a	This logical element has no mapping to CDA.
ContactPoint > <b>period</b>	Time period when the contact point was/is in use.	0..1	<a href="#">Period</a>	//telecom/usablePeriod	

<sup>1</sup>This value set differs from the value set bound to use in [ContactPoint](#) due to constraints on @use in the HL7 CDA Schema. The concept map [v3 map for ContactPointUse](#) provides a mapping between the two value sets.

## Examples

### Example A.16. ContactPoint - home telephone with period

```
<!-- ContactPoint where system=phone, value=+1-(03)5550-1212, use=home -->
<telecom value="tel:+1-(03)5550-1212" use="H">
  <!-- ContactPoint.period -->
```

```
<useablePeriod xsi:type="IVL_TS">
  <low value="01012001" />
  <high value="01012012" />
</useablePeriod>
</telecom>
```

#### Example A.17. ContactPoint - home telephone

```
<!-- ContactPoint where system=phone, value=0755501234, use=home -->
<telecom use="H" value="tel:0755501234" />
```

#### Example A.18. ContactPoint - work email

```
<!-- ContactPoint where system=email, value=sfranklin@amail.example.com, use=work -->
<telecom use="WB" value="mailto:sfranklin@amail.com.au" />
```

## A.6 AU Base Dosage

This informative appendix provides some guidance on how the constrained form of complex data type [Dosage](#) as [AU Base Dosage](#) published by HL7 Australia can map to CDA (R2).

The mapping table below provides a set of preferred mappings to CDA Schema elements and do not represent conformance requirements. See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>Dosage</b>	Indicates how the medication is/was taken or should be taken by the patient.	Cardinality comes from linking element	<a href="#">Element</a>	See: instantiation choices	<b>instantiation choices:</b> When a single instance of dosage is recorded the logical element has no direct mapping; it is implicit in the mapping of the child elements.  When more than one instance of dosage is recorded, each instance of dosage is recorded as a child substanceAdministration, e.g. substanceAdministration/entryRelationship[dosage]/substanceAdministration[@typeCode="SBADM", @moodCode="INT"].
Dosage > sequence	Indicates the order in which the dosage instructions should be applied or interpreted.	0..1	<a href="#">integer</a>	<a href="#">//entryRelationship[dosage]</a> <a href="#">//entryRelationship[dosage]/@typeCode="COMP"</a> <a href="#">//entryRelationship[dosage]/sequenceNumber</a>	sequenceNumber <b>SHALL NOT</b> be instantiated for a single instance of dosage.  The value of sequenceNumber <b>SHALL</b> be an ordinal number starting at "1" and increasing by "1" for each subsequent instance of dosage.
Dosage > text	Free text dosage instructions e.g. SIG.	0..1	<a href="#">string</a>	<a href="#">//text</a>	
Dosage > additionalInstruction	Supplemental instruction - e.g. 'with meals'.	0..*	<a href="#">CodeableConcept</a>	n/a	Not mapped directly for this model; included implicitly in text, or patientInstruction, or timing, or asNeeded.

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Dosage > patientInstruction	Instructions in terms that are understood by the patient or consumer.	0..1	<a href="#">string</a>	//entryRelationship[pat_instr] //entryRelationship[pat_instr]/@typeCode="COMP" //entryRelationship[pat_instr]/act //entryRelationship[pat_instr]/act/@classCode="INFRM" //entryRelationship[pat_instr]/act/@moodCode="EVN" //entryRelationship[pat_instr]/act/code //entryRelationship[pat_instr]/act/code/@code="1462671000168100" //entryRelationship[pat_instr]/act/code/@codeSystem="2.16.840.1.113883.6.96" //entryRelationship[pat_instr]/act/code/@displayName //entryRelationship[pat_instr]/act/text	<a href="#">SNOMED CT</a> displayName <b>SHOULD</b> be "Instructions for patient". text/@xsi:type <b>SHALL</b> be "ST".
Dosage > timing	When medication should be administered.	0..1	<a href="#">Timing</a>	//effectiveTime	Recommended mappings for this logical type to CDA (R2) are available: <a href="#">Timing</a> .
Dosage > asNeeded[x]	Indicates whether the Medication is only taken when needed within a specific dosing schedule (Boolean option), or it indicates the precondition for taking the Medication (CodeableConcept).	0..1	<a href="#">boolean</a>   <a href="#">CodeableConcept</a>	//precondition //precondition/@typeCode="PRCN" //precondition/criterion //precondition/criterion/code //precondition/criterion/code/@code="ASSERTION" //precondition/criterion/code/@codeSystem="2.16.840.1.113883.5.4" //precondition/criterion/value	<a href="#">v3 Code System ActCode</a> value/@xsi:type <b>SHALL</b> be "CD" or "BL". If value/@xsi:type is "CD" then value/originalText or value/@displayName <b>SHALL</b> be included. <a href="#">Clinical Finding (preferred)</a>
Dosage > site	Body site to administer to.	0..1	<a href="#">CodeableConcept</a>	//approachSiteCode	approachSiteCode/originalText or approachSiteCode/@displayName <b>SHALL</b> be included. <a href="#">Body Site (preferred)</a>
Dosage > route	How drug should enter body.	0..1	<a href="#">CodeableConcept</a>	//routeCode	routeCode/originalText or routeCode/@displayName <b>SHALL</b> be included. <a href="#">Route of Administration (preferred)</a>
Dosage > method	Technique for administering medication.	0..1	<a href="#">CodeableConcept</a>	//ext:methodCode	ext:methodCode/originalText or ext:methodCode/@displayName <b>SHALL</b> be included. <a href="#">SNOMED CT Administration Method Codes (preferred)</a>
Dosage > dose[x]	Amount of medication per dose.	0..1	<a href="#">Range</a>   <a href="#">SimpleQuantity</a>	//doseQuantity	

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Dosage > <b>maxDosePerPeriod</b>	Upper limit on medication per unit of time.	0..1	<a href="#">Ratio</a>	//maxDoseQuantity	
Dosage > <b>maxDosePerAdministration</b>	Upper limit on medication per administration.	0..1	<a href="#">SimpleQuantity</a>	n/a	Not directly supported in CDA however this may be represented by an administration schedule with a maxDosePerAdministration in that administration schedule represented as maxDoseQuantity with a period of a single administration.
Dosage > <b>maxDosePerLifetime</b>	Upper limit on medication per lifetime of the patient.	0..1	<a href="#">SimpleQuantity</a>	n/a	<p>Not directly supported in CDA.</p> <p>One possible way to represent this concept is to represent an observation with a code equivalent to max dose per lifetime.</p> <p>One possible way to represent this concept is to represent an instance of dosage with maxDoseQuantity and effectiveTime/high/@value="PINF" thus indicating that the end of the period of administration is positive infinity.</p>
Dosage > <b>rate[x]</b>	Amount of medication per unit of time.	0..1	<a href="#">Ratio</a>   <a href="#">Range</a>   <a href="#">SimpleQuantity</a>	//rateQuantity	

## Examples

### Example A.19. AU Base Dosage - MedicationStatement with two instances of structured dosage

```

<entry>
    <!-- MedicationStatement - more than one instance of Dosage -->
    <substanceAdministration classCode="SBADM" moodCode="EVN">
        <!-- identifier -->
        <id root="4255b903-6f90-41b8-a71c-8ac0ee1ebdc3"/>
        <!-- medication.as(medicationCodeableConcept) -->
        <consumable>
            <manufacturedProduct>
                <manufacturedMaterial>
                    <code code="6006011000036102" codeSystem="2.16.840.1.113883.6.96"
                        displayName="Lasix 40 mg tablet">
                        <originalText>Lasix (frusemide 40 mg) tablet</originalText>
                    </code>
                </manufacturedMaterial>
            </manufacturedProduct>
        </consumable>
        <!-- Dosage to indicate asNeeded with a condition-->
        <entryRelationship typeCode="COMP">
            <!-- sequence -->
            <sequenceNumber value="1"/>
            <substanceAdministration classCode="SBADM" moodCode="INT">
                <consumable>
                    <manufacturedProduct>
                        <manufacturedMaterial nullFlavor="NA"/>

```

```
</manufacturedProduct>
</consumable>
<!-- asNeededCodeableConcept - instantiated as prn with specified condition -->
<precondition typeCode="PRCN">
  <criterion>
    <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>
    <!-- joint pain -->
    <value xsi:type="CD" code="57676002" codeSystem="2.16.840.1.113883.6.96"
      displayName="Joint pain"/>
  </criterion>
</precondition>
</substanceAdministration>
</entryRelationship>
<!-- Dosage to indicate timing -->
<entryRelationship typeCode="COMP">
  <!-- sequence -->
  <sequenceNumber value="2"/>
  <substanceAdministration classCode="SBADM" moodCode="INT">
    <!-- additionalInstruction -->
    <text>Daily 8am 10min duration. Take missed doses as soon as possible.</text>
    <!-- timing -->
    <effectiveTime xsi:type="PIVL_TS" operator="A">
      <phase>
        <low value="198701010800" inclusive="true"/>
        <width value="10" unit="min"/>
      </phase>
      <period value="1" unit="d"/>
    </effectiveTime>
    <!-- route -->
    <routeCode code="C38288" codeSystem="2.16.840.1.113883.3.26.1.1"
      codeSystemName="NCI Thesaurus" displayName="Oral"/>
    <!-- dose -->
    <doseQuantity value="1"/>
    <consumable>
      <manufacturedProduct>
        <manufacturedMaterial nullFlavor="NA"/>
      </manufacturedProduct>
    </consumable>
    <!-- patientInstruction -->
    <entryRelationship typeCode="COMP">
      <act classCode="INFRM" moodCode="EVN">
        <code code="1462671000168100" codeSystem="2.16.840.1.113883.6.96"
          displayName="Instructions for patient"/>
        <text xsi:type="ST">Take every day at 8 in the morning for 10
          minutes. Take missed doses as soon as possible.</text>
      </act>
    </entryRelationship>
  </substanceAdministration>
</entryRelationship>
</substanceAdministration>
</entry>
```

#### Example A.20. AU Base Dosage - MedicationStatement with one instance of structured dosage

```
<entry>
  <!-- MedicationStatement - single instance of Dosage -->
  <substanceAdministration classCode="SBADM" moodCode="EVN" >
    <!--identifier-->
```

```
<id root="ab6d45ff-fd58-4f38-8009-aelaa84a4f43"/>
<!-- method -->
<ext:methodCode code="421134003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Inhale" />
<!-- route -->
<routeCode code="ORNEB" codeSystem="2.16.840.1.113883.5.112" codeSystemName="Route Code" displayName="Inhalation, nebulization, oral"/>
<!-- dose -->
<doseQuantity value="1" />
<!-- maxDosePerPeriod -->
<maxDoseQuantity>
    <numerator value="1" />
    <denominator value="1" unit="h" />
</maxDoseQuantity>
<administrationUnitCode code="415215001" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Puff" />
<!-- medication.as(medicationCodeableConcept) -->
<consumable>
    <manufacturedProduct>
        <manufacturedMaterial>
            <code code="7113011000036100"
                  codeSystem="2.16.840.1.113883.6.96"
                  displayName="Spiriva 18 microgram powder for inhalation, 1 capsule">
                <originalText>Spiriva (tiotropium bromide 18mg per
                inhalation) inhalant</originalText>
            </code>
        </manufacturedMaterial>
    </manufacturedProduct>
</consumable>
<!-- asNeededBoolean=true - instantiated as prn with no specified condition -->
<precondition typeCode="PRCN">
    <criterion>
        <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>
        <value xsi:type="CD" nullFlavor="NI"/>
    </criterion>
</precondition>
</substanceAdministration>
</entry>
```

## A.7 Timing

This informative appendix provides some guidance on how the complex data type [Timing](#) can map to CDA (R2).

The mapping table below provides a set of preferred mappings to CDA Schema elements and do not represent conformance requirements. See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

### CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Timing	Specifies an event that may occur multiple times. Timing schedules are used to record when things are planned, expected or requested to occur. The most common usage is in dosage instructions for medications. They are also used when planning care of various kinds, and may be used for reporting the schedule to which past regular activities were carried out.	Cardinality comes from linking element	<a href="#">Element</a>	//effectiveTime	
Timing > event	Identifies specific times when the event occurs.	0..*	<a href="#">dateTime</a>	//effectiveTime/@value	
Timing > repeat	A set of rules that describe when the event is scheduled.	0..1	<a href="#">Element</a>	n/a	<p>Not mapped directly; implicit in the instantiation of the effectiveTime xsi:type, e.g. PIVL_TS or EIVL_TS, and the mapping of the child elements.</p> <p>If duration is present, durationUnit <b>SHALL</b> be present.</p> <p>If timeOfDay is present, when <b>SHALL NOT</b> be present.</p> <p>If period is present, periodUnit <b>SHALL</b> be present.</p> <p>duration <b>SHALL</b> be a non-negative value.</p> <p>period <b>SHALL</b> be a non-negative value.</p> <p>If periodMax is present, period <b>SHALL</b> be present.</p> <p>If offset is present, when <b>SHALL</b> be present.</p>

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Timing > repeat > <b>bounds[x]</b>	Either a duration for the length of the timing schedule, a range of possible length, or outer bounds for start and/or end limits of the timing schedule.	0..1	<a href="#">Duration</a>   <a href="#">Range</a>   <a href="#">Period</a>	See: instantiation choices	<p>effectiveTime/@xsi:type <b>SHALL</b> be "IVL_TS".</p> <p><b>instantiation choices:</b></p> <p>If bounds is a <a href="#">Duration</a> then it <b>SHALL</b> be instantiated as effective-Time/width.</p> <p>If bounds is a <a href="#">Range</a> then it is expected to be included in <a href="#">Dosage</a> as text, or additionalInstruction, or patientInstruction as appropriate.</p> <p>If bounds is a <a href="#">Period</a> then it <b>SHALL</b> be instantiated as effective-Time/low/@value and effectiveTime/high/@value.</p>
Timing > repeat > <b>count</b>	A total count of the desired number of repetitions.	0..1	<a href="#">integer</a>	//repeatNumber/@value	count <b>SHALL</b> only be instantiated in the repeatNumber element of the <a href="#">Dosage</a> substanceAdministration act where the moodCode is "INT" or "PLAN".
Timing > repeat > <b>countMax</b>	A maximum value for the count of the desired repetitions (e.g. do something 6-8 times).	0..1	<a href="#">integer</a>	//repeatNumber/high/@value	
Timing > repeat > <b>duration</b>	How long this thing happens for when it happens.	0..1	<a href="#">decimal</a>	//effectiveTime/phase/width/@value	effectiveTime/@xsi:type <b>SHOULD</b> be "PIVL_TS".
Timing > repeat > <b>durationMax</b>	The upper limit of how long this thing happens for when it happens.	0..1	<a href="#">decimal</a>	n/a	This logical element has no mapping to CDA.
Timing > repeat > <b>durationUnit</b>	The units of time for the duration, in UCUM units.	0..1	<a href="#">code</a>	//effectiveTime/phase/width/@unit	effectiveTime/@xsi:type <b>SHOULD</b> be "PIVL_TS".
Timing > repeat > <b>frequency</b>	The number of times to repeat the action within the specified period / period range (i.e. both period and periodMax provided).	0..1	<a href="#">integer</a>	//effectiveTime/ <b>frequency</b>	frequency is expressed as the numerator (with an xsi:type of "INT") and period is expressed in CDA as the denominator.
				//effectiveTime/frequency/numerator	frequency is often not included in CDA as a separate element but addressed by adjusting the values of period and periodUnit to take into account frequency.
Timing > repeat > <b>frequencyMax</b>	If present, indicates that the frequency is a range - so to repeat between [frequency] and [frequencyMax] times within the period or period range.	0..1	<a href="#">integer</a>	//effectiveTime/ <b>phase</b>	effectiveTime/@xsi:type <b>SHOULD</b> be "PIVL_TS".
Timing > repeat > <b>period</b>	Indicates the duration of time over which repetitions are to occur; e.g. to express '3 times per day', 3 would be the frequency and '1 day' would be the period.	0..1	<a href="#">decimal</a>	See: instantiation choices	<p>effectiveTime/@xsi:type <b>SHOULD</b> be "PIVL_TS".</p> <p><b>instantiation choices:</b></p> <p>May be represented by effectiveTime/phase or effectiveTime/period.</p>
Timing > repeat > <b>periodMax</b>	If present, indicates that the period is a range from [period] to [periodMax], allowing expressing concepts such as 'do this once every 3-5 days.	0..1	<a href="#">decimal</a>	See: instantiation choices	<p>effectiveTime/@xsi:type <b>SHOULD</b> be "PIVL_TS".</p> <p><b>instantiation choices:</b></p> <p>May be represented by effectiveTime/phase or effectiveTime/period/high.</p>

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
Timing > repeat > periodUnit	The units of time for the period in UCUM units.	0..1	<a href="#">code</a>	See: instantiation choices	effectiveTime/@xsi:type <b>SHOULD</b> be "PIVL_TS".  <b>instantiation choices:</b>  May be represented by effectiveTime/phase/@unit or effectiveTime/period/low/@unit or effectiveTime/period/high/@unit.
Timing > repeat > dayOfWeek	If one or more days of week is provided, then the action happens only on the specified day(s).	0..*	<a href="#">code</a>	//effectiveTime/@xsi:type="PIVL_TS" //effectiveTime/@alignment="DW" //effectiveTime/phase //effectiveTime/phase/low/@value //effectiveTime/phase/low/@inclusive="true" //effectiveTime/phase/high/@value //effectiveTime/phase/high/@inclusive="false"	The value between low and high represents the day of the week by selecting a known day. For example a low/@value of 20001202 and a high/@value of 20001203 represents Saturday by setting the period to the whole of the Saturday of the 2nd of December 2000.
Timing > repeat > timeOfDay	Specified time of day for action to take place.	0..*	<a href="#">time</a>	//effectiveTime/phase //effectiveTime/phase/low //effectiveTime/phase/low/@value	effectiveTime/@xsi:type <b>SHOULD</b> be "PIVL_TS".
Timing > repeat > when	Real world events that the occurrence of the event should be tied to.	0..*	<a href="#">code</a>	//effectiveTime/event	This CDA schema element is of type CodedSimpleValue (CS).  effectiveTime/@xsi:type <b>SHALL</b> be "EIVL_TS".  <a href="#">EventTiming (required)</a>
Timing > repeat > offset	The number of minutes from the event. If the event code does not indicate whether the minutes is before or after the event, then the offset is assumed to be after the event.	0..1	<a href="#">unsignedInt</a>	//effectiveTime/offset	effectiveTime/@xsi:type <b>SHALL</b> be "EIVL_TS".
Timing > code	A code for the timing schedule. Some codes such as BID are ubiquitous, but many institutions define their own additional codes. If a code is provided, the code is understood to be a complete statement of whatever is specified in the structured timing data, and either the code or the data may be used to interpret the Timing, with the exception that .repeat.bounds still applies over the code (and is not contained in the code).	0..1	<a href="#">CodeableConcept</a>	n/a	Not directly supported in CDA; implied by frequency.

## Examples

### Example A.21. Timing - Dosage with timing

```
<!-- Dosage to indicate timing -->
<entryRelationship typeCode="COMP">
```

```

<!-- sequence -->
<sequenceNumber value="2"/>
<substanceAdministration classCode="SBADM" moodCode="INT">
  <!-- additionalInstruction -->
  <text>Every day at 8 in the morning for 10 minutes</text>
  <!-- timing, 1st administered 2009-09-01 at 1:18am and to be taken every day at 8 in the morning for 10 minutes -->
  <!-- event -->
  <effectiveTime value="200509010118"/>
  <!-- repeat -->
  <effectiveTime xsi:type="PIVL_TS" operator="A">
    <phase>
      <!-- boundsPeriod / timeOfDay -->
      <low value="200509020800" inclusive="true"/>
      <!-- duration and durationUnit -->
      <width value="10" unit="min"/>
    </phase>
    <!-- frequency=1, period=1 -->
    <period value="1" unit="d"/>
  </effectiveTime>
  <consumable>
    <manufacturedProduct>
      <manufacturedMaterial nullFlavor="NA"/>
    </manufacturedProduct>
  </consumable>
</substanceAdministration>
</entryRelationship>

```

### Example A.22. Timing - b.i.d twice a day

```

<entry>
  <!-- MedicationStatement - common timing representations -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!--identifier-->
    <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
    <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6Eyg06hpI88B195esjRWZ0agtY/edit -->
    <!-- b.i.d twice a day -->
    <effectiveTime xsi:type="PIVL_TS" institutionSpecified="true" operator="A">
      <!-- frequency=2, period1, periodUnit=d -->
      <period value="0.5" unit="d"/>
    </effectiveTime>
  </substanceAdministration>
</entry>

```

### Example A.23. Timing - q12h Every 12 hours

```

<entry>
  <!-- MedicationStatement - common timing representations -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!--identifier-->
    <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
    <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6Eyg06hpI88B195esjRWZ0agtY/edit -->
    <!-- q12h Every 12 hours -->
    <effectiveTime xsi:type="PIVL_TS" institutionSpecified="false" operator="A">

```

```
<!-- frequency=1, period=12, periodUnit=h -->
<period value="12" unit="h"/>
</effectiveTime>
</substanceAdministration>
</entry>
```

#### Example A.24. Timing - t.i.d Three times a day, at times determined by the person administering the medication

```
<entry>
  <!-- MedicationStatement - common timing representations -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!--identifier-->
    <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
    <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6EygO6hpI88B195esjRWZ0agtY/edit -->
    <!--t.i.d Three times a day, at times determined by the person administering the medication-->
    <effectiveTime xsi:type="PIVL_TS" institutionSpecified="true"
      operator="A">
      <!-- frequency=3, period=1, periodUnit=d -->
      <period value="0.3333" unit="d"/>
    </effectiveTime>
  </substanceAdministration>
</entry>
```

#### Example A.25. Timing - q8h Every 8 hours

```
<entry>
  <!-- MedicationStatement - common timing representations -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!--identifier-->
    <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
    <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6EygO6hpI88B195esjRWZ0agtY/edit -->
    <!-- q8h Every 8 hours -->
    <effectiveTime xsi:type="PIVL_TS" institutionSpecified="false"
      operator="A">
      <!-- frequency=1, period=8, periodUnit=h -->
      <period value="8" unit="h"/>
    </effectiveTime>
  </substanceAdministration>
</entry>
```

#### Example A.26. Timing - qid four times daily

```
<entry>
  <!-- MedicationStatement - common timing representations -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!--identifier-->
    <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
    <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6EygO6hpI88B195esjRWZ0agtY/edit -->
    <!--qid four times daily-->
```

```
<effectiveTime xsi:type="PIVL_TS" institutionSpecified="true"
    operator="A">
    <!-- frequency=4, period=1, periodUnit=d -->
    <period value="0.25" unit="d"/>
</effectiveTime>
</substanceAdministration>
</entry>
```

#### Example A.27. Timing - q6h Every 6 hours

```
<entry>
<!-- MedicationStatement - common timing representations -->
<substanceAdministration classCode="SBADM" moodCode="EVN">
    <!--identifier-->
    <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
    <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6Eyg06hpI88B195esjRWZ0agtY/edit -->
    <!-- q6h Every 6 hours -->
    <effectiveTime xsi:type="PIVL_TS" institutionSpecified="false"
        operator="A">
        <!-- frequency=1, period=6, periodUnit=h -->
        <period value="6" unit="h"/>
    </effectiveTime>
</substanceAdministration>
</entry>
```

#### Example A.28. Timing - qd daily

```
<entry>
<!-- MedicationStatement - common timing representations -->
<substanceAdministration classCode="SBADM" moodCode="EVN">
    <!--identifier-->
    <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
    <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6Eyg06hpI88B195esjRWZ0agtY/edit -->
    <!-- qd daily -->
    <effectiveTime xsi:type="PIVL_TS" institutionSpecified="true"
        operator="A">
        <!-- frequency=1, period=1, periodUnit=d -->
        <period value="1" unit="d"/>
    </effectiveTime>
</substanceAdministration>
</entry>
```

#### Example A.29. Timing - q24h Every 24 hours

```
<entry>
<!-- MedicationStatement - common timing representations -->
<substanceAdministration classCode="SBADM" moodCode="EVN">
    <!--identifier-->
```

```
<id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
<!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6EygO6hpI88Bl95esjRWZ0agtY/edit -->
<!-- q24h Every 24 hours -->
<effectiveTime xsi:type="PIVL_TS" institutionSpecified="false"
  operator="A">
  <!-- frequency=1, period=24, periodUnit=h -->
  <period value="24" unit="h"/>
</effectiveTime>
</substanceAdministration>
</entry>
```

#### Example A.30. Timing - qod Every other day

```
<entry>
<!-- MedicationStatement - common timing representations -->
<substanceAdministration classCode="SBADM" moodCode="EVN">
  <!--identifier-->
  <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
  <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6EygO6hpI88Bl95esjRWZ0agtY/edit -->
  <!-- qod Every other day -->
  <effectiveTime xsi:type="PIVL_TS" institutionSpecified="false"
    operator="A">
    <!-- frequency=1, period=2, periodUnit=d -->
    <period value="2" unit="d"/>
  </effectiveTime>
</substanceAdministration>
</entry>
```

#### Example A.31. Timing - qm Once a month

```
<entry>
<!-- MedicationStatement - common timing representations -->
<substanceAdministration classCode="SBADM" moodCode="EVN">
  <!--identifier-->
  <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
  <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6EygO6hpI88Bl95esjRWZ0agtY/edit -->
  <!-- qm Once a month -->
  <effectiveTime xsi:type="PIVL_TS" institutionSpecified="false"
    operator="A">
    <!-- frequency=1, period=1, periodUnit=mo -->
    <period value="1" unit="m"/>
  </effectiveTime>
</substanceAdministration>
</entry>
```

#### Example A.32. Timing - q4-6h Every 4 to 6 hours

```
<entry>
<!-- MedicationStatement - common timing representations -->
```

```

<substanceAdministration classCode="SBADM" moodCode="EVN">
  <!--identifier-->
  <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
  <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6Eyg06hpI88B195esjRWZ0agtY/edit -->
  <!-- q4-6h Every 4 to 6 hours -->
  <effectiveTime xsi:type="PIVL_TS" institutionSpecified="false"
    operator="A">
    <!-- frequency (where frequency=1)-->
    <period xsi:type="IVL_PQ">
      <!-- period and periodUnit -->
      <low value="4" unit="h" />
      <!-- periodMax and periodUnit -->
      <high value="6" unit="h" />
    </period>
  </effectiveTime>
</substanceAdministration>
</entry>

```

#### Example A.33. Timing - qam In the morning

```

<entry>
  <!-- MedicationStatement - common timing representations -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!--identifier-->
    <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
    <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6Eyg06hpI88B195esjRWZ0agtY/edit -->
    <!-- qam In the morning -->
    <effectiveTime xsi:type="EIVL_TS" operator="A">
      <!-- when using code from TimingEvent value set (2.16.840.1.113883.5.139) -->
      <event code="ACM"/>
    </effectiveTime>
  </substanceAdministration>
</entry>

```

#### Example A.34. Timing - qam Every day at 8 in the morning for 10 minutes

```

<entry>
  <!-- MedicationStatement - common timing representations -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!--identifier-->
    <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
    <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6Eyg06hpI88B195esjRWZ0agtY/edit -->
    <!-- qam Every day at 8 in the morning for 10 minutes -->
    <effectiveTime xsi:type="PIVL_TS" operator="A">
      <phase>
        <!-- boundsPeriod / timeOfDay -->
        <low value="198701010800" inclusive="true"/>
        <!-- duration and durationUnit -->
        <width value="10" unit="min"/>
      </phase>
      <period value="1" unit="d"/>
    </effectiveTime>
  </substanceAdministration>
</entry>

```

### Example A.35. Timing - 1 hour after meal

```
<entry>
  <!-- MedicationStatement - common timing representations -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!---identifier-->
    <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
    <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6EygO6hpI88B195esjRWZ0agtY/edit -->
    <!-- 1 hour after meal -->
    <effectiveTime xsi:type="EIVL_TS" operator="A">
      <!-- when using code from TimingEvent value set (2.16.840.1.113883.5.139) -->
      <event code="PC"/>
      <!-- offset -->
      <offset>
        <low value="1" unit="h" />
      </offset>
    </effectiveTime>
  </substanceAdministration>
</entry>
```

### Example A.36. Timing - before dinner

```
<entry>
  <!-- MedicationStatement - common timing representations -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!---identifier-->
    <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
    <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6EygO6hpI88B195esjRWZ0agtY/edit -->
    <!-- before dinner -->
    <effectiveTime xsi:type="EIVL_TS" operator="A">
      <!-- when using code from TimingEvent value set (2.16.840.1.113883.5.139) -->
      <event code="ACV"/>
    </effectiveTime>
  </substanceAdministration>
</entry>
```

### Example A.37. Timing - every evening

```
<entry>
  <!-- MedicationStatement - common timing representations -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!---identifier-->
    <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
    <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6EygO6hpI88B195esjRWZ0agtY/edit -->
    <!-- every evening -->
    <effectiveTime xsi:type="EIVL_TS" operator="A">
      <!-- when using code from TimingEvent value set (2.16.840.1.113883.5.139) -->
      <event code="ICV"/>
    </effectiveTime>
  </substanceAdministration>
</entry>
```

```
</effectiveTime>
</substanceAdministration>
</entry>
```

### Example A.38. Timing - every Saturday

```
<entry>
  <!-- MedicationStatement - common timing representations -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!--identifier-->
    <id root="7e5cc411-c248-4d5d-b333-257f16f9136c"/>
    <!-- common timing representations taken from https://docs.google.com/document/d/1Y0Z458o_MrR2aPnpx6Eygo6hpI88B195esjRWZ0agtY/edit -->
    <effectiveTime xsi:type="PIVL_TS" alignment="DW" operator="A">
      <!-- every Saturday -->
      <phase>
        <low value="20001202" inclusive="true"/>
        <high value="20001203" inclusive="false"/>
      </phase>
      <period value="1" unit="wk"/>
    </effectiveTime>
  </substanceAdministration>
</entry>
```

## A.8 CodeableConcept as a Medicine Item Code

This informative appendix provides some guidance on how the complex data type [CodeableConcept](#) when used for a medicine item code (and related elements medication-brand-name and medication-generic-name) can map to CDA (R2).

In addition to material provided in this implementation guide, guidance on representing coding in CDA is provided by [Representing Coding in CDA Documents Implementation Guidance \[NE-HT2011bv\]](#).

### Guidance

Where brand name is known, it will form part of the originalText of the medicine item code (e.g. manufacturedProduct/manufacturedMaterial/code/originalText), and optionally be in medication-brand-name (//entryRelationship[brand]/act/text).

It may be appropriate to send multiple codings for a medicine item code, in this circumstance the primary code may be carried in the medicine item code (code/@code) and additional coding sent as one or more translations (code/translation/@code).

When sending a medication without a coded value:

- the medicine item code should only be supplied as code/originalText (e.g. as manufacturedProduct/manufacturedMaterial/code/originalText)
- if both brand name and generic name can be sent, brand name will be sent as stated above; generic name will be sent only in medication-generic-name (//entryRelationship[generic]/act)
- if only generic name can be sent, it will form part of the originalText of the medicine item code (e.g. manufacturedProduct/manufacturedMaterial/code/originalText), and optionally be in medication-generic-name (//entryRelationship[generic]/act)
- if a name can be sent, but it cannot be determined if it is a brand or generic name, the name will form part of the originalText of the medicine item code (e.g. manufacturedProduct/manufacturedMaterial/code/originalText)
- if a name is not known but a meaningful description or formula can be sent, the description form part of the originalText of the medicine item code (e.g. manufacturedProduct/manufacturedMaterial/code/originalText)

The mappings in the table provided below are a set of preferred mappings from the complex data type [CodeableConcept](#) to the ConceptDescriptor (CD) data type [\[HL7V3\]](#) and do not represent conformance requirements. See [Legend - CDA mapping table for logical elements](#) for an explanation of mapping table presentation.

## CDA mapping

Logical element	Logical element description	Logical card	Logical type	CDA schema element	CDA constraints and comments
<b>CodeableConcept</b>	A concept that may be defined by a formal reference to a terminology or ontology or may be provided by text.	Cardinality comes from linking element	<a href="#">Element</a>	//code	This mapping table is applicable to any CDA schema element that can be of type CD by replacing out "//code" for that element, e.g. "//value" to become //value/@codeSystem.
CodeableConcept > coding	A reference to a code defined by a terminology system.	0..*	<a href="#">Coding</a>	See: instantiation choices	<p><b>instantiation choices:</b></p> <p>When a single instance of coding is recorded the logical element has no direct mapping; it is implicit in the mapping of the child elements.</p> <p>When more than one instance of coding is recorded, then the additional instances of coding are represented using //code/translation, e.g. //code/translation/@code and //code/translation/@codeSystem.</p>
CodeableConcept > coding > system	The identification of the code system that defines the meaning of the symbol in the code.	0..1	<a href="#">uri</a>	//code/@codeSystem	codeSystem <b>SHALL</b> be a UUID or an OID.
CodeableConcept > coding > version	The version of the code system which was used when choosing this code. Note that a well-maintained code system does not need the version reported, because the meaning of codes is consistent across versions. However this cannot consistently be assured. and when the meaning is not guaranteed to be consistent, the version <b>SHOULD</b> be exchanged.	0..1	<a href="#">string</a>	//code/@codeSystemVersion	
CodeableConcept > coding > code	A symbol in syntax defined by the system. The symbol may be a predefined code or an expression in a syntax defined by the coding system (e.g. post-coordination).	0..1	<a href="#">code</a>	//code/@code	
CodeableConcept > coding > display	A representation of the meaning of the code in the system, following the rules of the system.	0..1	<a href="#">string</a>	//code/@displayName	
CodeableConcept > coding > userSelected	Indicates that this coding was chosen by a user directly - i.e. off a pick list of available items (codes or displays).	0..1	<a href="#">boolean</a>	n/a	This logical element has no mapping to CDA.
CodeableConcept > text	A human language representation of the concept as seen/selected/uttered by the user who entered the data and/or which represents the intended meaning of the user.	0..1	<a href="#">string</a>	//code/originalText	

## Examples

### Example A.39. CodeableConcept - Medication with coded brand

```
<!-- Medication with coded brand -->
<supply classCode="SPLY" moodCode="EVN">
  <id root="9ff3422e-4e8c-4133-8cc9-6de74ecfac48" />
  <product>
    <manufacturedProduct>
      <manufacturedMaterial>
        <code code="17311000168105" codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED CT" displayName="Panadol">
          <originalText>Panadol</originalText>
        </code>
      </manufacturedMaterial>
    </manufacturedProduct>
  </product>
  <!-- medication-brand-name-->
  <entryRelationship typeCode="COMP">
    <act classCode="ACT" moodCode="EVN">
      <code code="1402141000168102" codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT" displayName="Branded product name"/>
      <text xsi:type="ST">Panadol</text>
    </act>
  </entryRelationship>
</supply>
```

#### Example A.40. CodeableConcept - Medication with multiple codings

```
<!-- Medication with mutliple codings -->
<substanceAdministration classCode="SBADM" moodCode="EVN">
  <consumable>
    <manufacturedProduct>
      <manufacturedMaterial>
        <code code="28236011000036109" codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED CT" displayName="amoxicillin 250 mg capsule, 20">
          <translation code="1884E" codeSystem="1.2.36.1.2001.1004.200.10009"
            codeSystemName="Australian Pharmaceutical Benefits Scheme Schedule Item"
            displayName="amoxicillin 250 mg capsule, 20"/>
        </code>
      </manufacturedMaterial>
    </manufacturedProduct>
  </consumable>
</substanceAdministration>
```

#### Example A.41. CodeableConcept - Medication without a coded value

```
<!-- Medication without a coded value -->
<supply classCode="SPLY" moodCode="RQO">
  <product>
    <manufacturedProduct>
      <manufacturedMaterial>
        <code>
          <originalText>RIVAROXABAN</originalText>
        </code>
      </manufacturedMaterial>
    </manufacturedProduct>
  </product>
```

&lt;/supply&gt;

**Example A.42. CodeableConcept - Medication with both brand name and generic name and no coded value**

```
<!-- Medication with both brand name and generic name and no coded value -->
<substanceAdministration classCode="SBADM" moodCode="EVN">
  <id root="67425d8f-7929-4a10-9acc-c06981e38d6a"/>
  <consumable>
    <manufacturedProduct>
      <manufacturedMaterial>
        <code>
          <originalText>Valepam</originalText>
        </code>
      </manufacturedMaterial>
    </manufacturedProduct>
  </consumable>
  <!-- medication-brand-name-->
  <entryRelationship typeCode="COMP">
    <act classCode="ACT" moodCode="EVN">
      <code code="1402141000168102" codeSystem="2.16.840.1.113883.6.96"
           codeSystemName="SNOMED CT" displayName="Branded product name"/>
      <text xsi:type="ST">Valepam</text>
    </act>
  </entryRelationship>
  <!-- medication-generic-name-->
  <entryRelationship typeCode="COMP">
    <act classCode="ACT" moodCode="EVN">
      <code code="1402131000168106" codeSystem="2.16.840.1.113883.6.96"
           codeSystemName="SNOMED CT" displayName="Generic product name"/>
      <text xsi:type="ST">Diazepam</text>
    </act>
  </entryRelationship>
</substanceAdministration>
```

**Example A.43. CodeableConcept - Medication with generic name and no coded value**

```
<!-- Medication with generic name and no coded value -->
<substanceAdministration classCode="SBADM" moodCode="EVN">
  <consumable>
    <manufacturedProduct>
      <manufacturedMaterial>
        <code>
          <originalText>Diazepam</originalText>
        </code>
      </manufacturedMaterial>
    </manufacturedProduct>
  </consumable>
  <!-- medication-generic-name-->
  <entryRelationship typeCode="COMP">
    <act classCode="ACT" moodCode="EVN">
      <code code="1402131000168106" codeSystem="2.16.840.1.113883.6.96"
           codeSystemName="SNOMED CT" displayName="Generic product name"/>
      <text xsi:type="ST">Diazepam</text>
    </act>
  </entryRelationship>
</substanceAdministration>
```

```
</entryRelationship>  
</substanceAdministration>
```



## Appendix B. Examples

This implementation guide is intended to support multiple usage scenarios; some templates described within this implementation guide are reused across usage scenarios and other implementation guides.

This informative appendix provides examples that conform to the CDA templates defined in this implementation guide to support implementation by demonstrating one or more supported usage scenarios.

Example	Context	Usage Scenario(s)
<a href="#">My Health Record Pharmacist Shared Medicines List</a>	My Health Record system	Pharmacist Shared Medicines List
<a href="#">Home Medicines Review Report for Mr. Lenny Matterson</a>	My Health Record system	Pharmacist Shared Medicines List
<a href="#">Point-to-Point Pharmacist Shared Medicines List</a>	P2P (Point-to-Point)	Pharmacist Shared Medicines List
<a href="#">Ceased Medicines List</a>	P2P (Point-to-Point)	Practitioner authored shared medicines list
<a href="#">Summary Medicines List – No Current Medicines</a>	P2P (Point-to-Point)	Practitioner authored shared medicines list

A corresponding set of FHIR Release 3 (STU) examples, conforming to the FHIR profiles used as logical models for this CDA implementation guide, are available in the [Shared Medicines List FHIR Implementation Guide \[DH2020\]](#).

## B.1 My Health Record Pharmacist Shared Medicines List

This informative appendix provides an example instance that conforms to the requirements of this implementation guide.

### Example B.1. My Health Record Pharmacist Shared Medicines List

```
<!-- This example is illustrative only. This fragment cannot be treated as clinically valid.  
While every effort has been taken to ensure that the examples are consistent with the message specification, where  
there are conflicts with the written message specification or schema, the specification or schema will take precedence. -->  
<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
    xsi:schemaLocation="urn:hl7-org:v3 ../../library/schema_au_dev/CDA-AU-V1_0.xsd"  
    xmlns="urn:hl7-org:v3" xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"  
    xmlns:ex="urn:hl7-org:v3-example" classCode="DOCCLIN" moodCode="EVN">  
    <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>  
    <!-- ClinicalDocument templateId -->  
    <templateId root="1.2.36.1.2001.1001.102.101.100033"/>  
    <!-- ClinicalDocument (Shared Medicines List Authored by Practitioner) templateId-->  
    <templateId root="1.2.36.1.2001.1001.102.101.100065"/>  
    <!--CDA Rendering Specification templateId-->  
    <templateId root="1.2.36.1.2001.1001.100.149"/>  
    <id root="cbc73f0e-90a3-11e9-bc42-526af7764f64"/>  
    <!-- Composition type-->  
    <code code="56445-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"  
        displayName="Medication summary"/>  
    <!-- Composition title-->  
    <title>Pharmacist Shared Medicines List</title>  
    <effectiveTime value="201812111330+1000"/>  
    <confidentialityCode nullFlavor="NA"/>  
    <languageCode code="en-AU"/>  
    <!-- Composition status-->  
    <ext:completionCode code="F" codeSystem="1.2.36.1.2001.1001.101.104.20104"  
        codeSystemName="NCTIS Document Status Values" displayName="Final"/>  
    <!-- Composition subject -->  
    <recordTarget typeCode="RCT">  
        <!-- recordTarget (My Health Record Patient) templateId-->  
        <templateId root="1.2.36.1.2001.1001.102.101.100091"/>  
        <patientRole classCode="PAT">  
            <id root="430fa8e6-eaba-4629-bf2f-ac16d7c5e082"/>  
            <patient>  
                <!-- Patient name -->  
                <name>  
                    <given>Mac</given>  
                    <family>PRIEST</family>  
                </name>  
                <!-- Patient gender -->  
                <administrativeGenderCode code="male" codeSystem="2.16.840.1.113883.4.642.4.2"  
                    codeSystemName="AdministrativeGender" displayName="Male"/>  
                <!--Patient birthDate-->  
                <birthTime value="19890309"/>  
                <!-- Patient indigenous-status -->  
                <ethnicGroupCode code="4" codeSystem="1.2.36.1.2001.1004.200.10012"  
                    codeSystemName="Australian Indigenous Status"  
                    displayName="Neither Aboriginal nor Torres Strait Islander origin"/>  
                <!-- Patient identifier -->  
                <ext:asEntityIdentifier classCode="IDENT">  
                    <ext:id root="1.2.36.1.2001.1003.0.8003608333563104"  
                        assigningAuthorityName="IHI"/>  
                    <ext:assigningGeographicArea classCode="PLC">  
                        <ext:name>National Identifier</ext:name>  
                    </ext:assigningGeographicArea>  
                </ext:asEntityIdentifier>  
            </patient>  
        </patientRole>  
    </recordTarget>  
    <!-- Composition composition-author-role / Composition author -->  
    <author typeCode="AUT">  
        <!-- author (PractitionerRole with Practitioner with Mandatory Identifier) templateId-->  
        <templateId root="1.2.36.1.2001.1001.102.101.100006"/>  
        <!-- Composition date -->  
        <time value="201812111330+1000"/>  
        <assignedAuthor classCode="ASSIGNED">  
            <id root="01flaeet-a212-4f3d-bb97-b26e7a476559"/>  
            <!-- PractitionerRole code -->  
            <code code="251513" codeSystem="2.16.840.1.113883.13.62"  
                codeSystemName="Australian and New Zealand Standard Classification of Occupations"  
                displayName="Retail Pharmacist"  
                originalText="Pharmacist"/>  
        </code>  
        <!-- PractitionerRole telecom-->  
        <telecom use="WB" value="mailto:zsin@gmail.com"/>  
        <!-- PractitionerRole practitioner -->  
        <assignedPerson classCode="PSN">  
            <!-- assignedPerson (Practitioner with Mandatory Identifier) templateId -->  
            <templateId root="1.2.36.1.2001.1001.102.101.100040"/>  
            <!-- Practitioner name -->  
            <name>  
                <prefix>Mr.</prefix>  
                <given>Zane</given>  
                <family>Sinclair</family>  
            </name>  
        <!-- PractitionerRole identifier / Practitioner identifier -->
```

```
<ext:asEntityIdentifier classCode="IDENT">
  <ext:id root="1.2.36.1.2001.1003.0.8003611566708354"
    assigningAuthorityName="HPI-I"/>
  <ext:assigningGeographicArea classCode="PLC">
    <ext:name>National Identifier</ext:name>
  </ext:assigningGeographicArea>
</ext:asEntityIdentifier>
<!-- Practitioner qualification-->
<ext:asQualifications classCode="QUAL">
  <ext:code>
    <originalText>Bachelor of Pharmacy </originalText>
  </ext:code>
</ext:asQualifications>
</assignedPerson>
<!-- PractitionerRole organization -->
<representedOrganization classCode="ORG">
  <!-- representedOrganization (Base Organization) templateId-->
  <templateId root="1.2.36.1.2001.1001.102.101.100039"/>
  <id root="0c267071-8a7b-4cba-a3cc-9b571cc09ab3"/>
  <!-- Organization name -->
  <name>Test Org - Retail Pharmacy</name>
  <!-- Organization address -->
  <addr use="WP">
    <streetAddressLine>570 Whatcha St</streetAddressLine>
    <city>GLEEDE</city>
    <state>NSW</state>
    <postalCode>2037</postalCode>
    <country>AU</country>
  </addr>
  <!-- Organization type-->
  <standardIndustryClassCode code="4271" codeSystem="1.2.36.1.2001.1005.47"
    codeSystemName="1292.0 - ANZSIC - Australian and New Zealand Standard Industrial Classification"
    displayName="Retail Pharmacy"/>
  <!-- Organization identifier -->
  <ext:asEntityIdentifier classCode="IDENT">
    <ext:id assigningAuthorityName="HPI-O"
      root="1.2.36.1.2001.1003.0.8003629900033370"/>
    <ext:assigningGeographicArea classCode="PLC">
      <ext:name>National Identifier</ext:name>
    </ext:assigningGeographicArea>
  </ext:asEntityIdentifier>
</representedOrganization>
</assignedAuthor>
<!-- Composition custodian -->
<custodian typeCode="CST">
  <!-- custodian (Organization with Mandatory Identifier) templateId-->
  <templateId root="1.2.36.1.2001.1001.102.101.100002"/>
  <assignedCustodian classCode="ASSIGNED">
    <representedCustodianOrganization classCode="ORG">
      <id root="0c267071-8a7b-4cba-a3cc-9b571cc09ab3"/>
      <!-- Organization name -->
      <name>Test Org - Retail Pharmacy</name>
      <!-- Organization address -->
      <addr use="WP">
        <streetAddressLine>570 Whatcha St</streetAddressLine>
        <city>GLEEDE</city>
        <state>NSW</state>
        <postalCode>2037</postalCode>
        <country>AU</country>
      </addr>
      <!-- Organization identifier -->
      <ext:asEntityIdentifier classCode="IDENT">
        <ext:id assigningAuthorityName="HPI-O"
          root="1.2.36.1.2001.1003.0.8003629900033370"/>
        <ext:assigningGeographicArea classCode="PLC">
          <ext:name>National Identifier</ext:name>
        </ext:assigningGeographicArea>
      </ext:asEntityIdentifier>
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>
<!-- Composition attester (Legal Attester) -->
<legalAuthenticator typeCode="LA">
  <templateId root="1.2.36.1.2001.1001.102.101.100012"/>
  <time value="201812111330+1000"/>
  <signatureCode code="S"/>
  <assignedEntity classCode="ASSIGNED">
    <id root="01f1aee7-a212-4f3d-bb97-b26e7a476559"/>
    <assignedPerson classCode="PSN">
      <!-- Practitioner name -->
      <name>
        <prefix>Mr.</prefix>
        <given>Zane</given>
        <family>Sinclair</family>
      </name>
      <!-- Practitioner identifier -->
      <ext:asEntityIdentifier classCode="IDENT">
        <ext:id root="1.2.36.1.2001.1003.0.8003611566708354"
          assigningAuthorityName="HPI-I"/>
        <ext:assigningGeographicArea classCode="PLC">
          <ext:name>National Identifier</ext:name>
        </ext:assigningGeographicArea>
      </ext:asEntityIdentifier>
    </assignedPerson>
    </assignedEntity>
  </legalAuthenticator>
<!-- Patient generalPractitioner -->
<participant typeCode="PART">
```

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<!-- participant (generalPractitioner Base Organization) templateId-->
<templateId root="1.2.36.1.2001.1001.102.101.100036"/>
<functionCode code="PCP"/>
<associatedEntity classCode="PROV">
  <id root="fdb10052-30e9-4425-b771-8b8a81ae7107"/>
  <!--Organization type -->
  <code code="288565001" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
    displayName="Medical centre"/>
  <scopingOrganization classCode="ORG">
    <!-- Organization name -->
    <name>Test Medical Centre</name>
  </scopingOrganization>
</associatedEntity>
</participant>
<!-- Composition encounter-->
<componentOf typeCode="COMP">
  <encompassingEncounter moodCode="EVN" classCode="ENC">
    <!-- encompassingEncounter (Summary of an Encounter for an Event) templateId-->
    <templateId root="1.2.36.1.2001.1001.102.101.100064"/>
    <id root="a2201099-367c-46a1-a611-e7c143a25a92"/>
    <!-- Encounter period-->
    <effectiveTime xsi:type="IVL_TS">
      <low value="201812111000+1000"/>
      <high value="201812111330+1000"/>
    </effectiveTime>
  </encompassingEncounter>
</componentOf>
<component typeCode="COMP">
  <structuredBody classCode="DOCBODY" moodCode="EVN">
    <!-- Composition section (Allergies) -->
    <component typeCode="COMP">
      <section moodCode="EVN" classCode="DOCSECT">
        <!-- section (Allergies) templateId-->
        <templateId root="1.2.36.1.2001.1001.102.101.100069"/>
        <id root="e5616571-74e8-4986-9a58-4e51261091cd"/>
        <!-- section code-->
        <code code="48765-2" codeSystem="2.16.840.1.113883.6.1"
          displayName="Allergies & or adverse reactions"/>
        <!-- section title-->
        <title>Allergies</title>
        <!-- section text-->
        <text mediaType="text/x-hl7-text+xml">
          <table>
            <caption>Allergies</caption>
            <thead>
              <tr>
                <th>Substance/Agent</th>
                <th>Reaction Type</th>
                <th>Reaction</th>
                <th>Reaction Onset Date</th>
              </tr>
            </thead>
            <tbody>
              <tr>
                <td>ibuprofen</td>
                <td>Allergic reaction</td>
                <td>Anaphylaxis</td>
                <td>October 2016</td>
              </tr>
            </tbody>
          </table>
        </text>
        <!--section entry -->
      <entry typeCode="COMP">
        <observation classCode="OBS" moodCode="EVN">
          <!-- observation (Summary Statement of Allergy or Intolerance) templateId-->
          <templateId root="1.2.36.1.2001.1001.102.101.100014"/>
          <id root="134649c9-53c9-41fe-984c-2b3123646800"/>
          <code code="allergy" codeSystem="2.16.840.1.113883.4.642.4.132"
            codeSystemName="AllergyIntoleranceType" displayName="Allergy"/>
          <!-- AllergyIntolerance onset[x]-->
          <effectiveTime>
            <low value="201610"/>
          </effectiveTime>
          <!--AllergyIntolerance code-->
          <value xsi:type="CD" code="21885011000036105"
            codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
            displayName="Ibuprofen">
            <originalText>ibuprofen</originalText>
          </value>
          <!-- AllergyIntolerance clinicalStatus -->
          <entryRelationship typeCode="COMP">
            <observation classCode="OBS" moodCode="EVN">
              <id root="80b36cc2-b70b-4351-a542-b65958c3f20f"/>
              <code code="103.32013" codeSystem="1.2.36.1.2001.1001.101"
                codeSystemName="NCTIS Data Components"
                displayName="Clinical Status"/>
              <value xsi:type="CD" code="active"
                codeSystem="2.16.840.1.113883.4.642.4.1373"
                codeSystemName="AllergyIntoleranceClinicalStatusCodes"
                displayName="Active"/>
            </observation>
          </entryRelationship>
          <!-- AllergyIntolerance verificationStatus -->
          <entryRelationship typeCode="COMP">
            <observation classCode="OBS" moodCode="EVN">
              <id root="ce0c2a55-be02-4f9d-b3be-95c4abblcaf3"/>
              <code code="103.32012" codeSystem="1.2.36.1.2001.1001.101"
                codeSystemName="NCTIS Data Components"
```

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        displayName="Verification Status"/>
    <value xsi:type="CD" code="unconfirmed"
        codeSystem="2.16.840.1.113883.4.642.4.1371"
        codeSystemName="AllergyIntoleranceVerificationStatusCodes"
        displayName="Unconfirmed"/>
    </observation>
</entryRelationship>
<!-- AllergyIntolerance reaction -->
<entryRelationship typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
        <id root="75a6e6d8-7d66-472f-97af-5fd6c64258c9"/>
        <code code="102.16474" codeSystem="1.2.36.1.2001.1001.101"
            codeSystemName="NCTIS Data Components"
            displayName="Reaction Event"/>
    <!-- AllergyIntolerance reaction substance-->
    <participant typeCode="CAGNT">
        <participantRole classCode="ADMN">
            <id root="c0a73810-08ad-418e-a559-1897ecfe60b6"/>
            <playingEntity classCode="ENT">
                <code code="21885011000036105"
                    codeSystem="2.16.840.1.113883.6.96"
                    codeSystemName="SNOMED CT" displayName="Ibuprofen">
                    <originalText>ibuprofen</originalText>
                </code>
            </playingEntity>
        </participantRole>
    </participant>
    <!-- AllergyIntolerance reaction manifestation -->
    <entryRelationship typeCode="MFST" inversionInd="true">
        <observation classCode="OBS" moodCode="EVN">
            <id root="05424437-4ae8-4542-9b7c-672f036980bf"/>
            <code code="39579001"
                codeSystem="2.16.840.1.113883.6.96"
                codeSystemName="SNOMED CT" displayName="Anaphylaxis">
                <originalText>Anaphylaxis</originalText>
            </code>
        </observation>
    </entryRelationship>
    </observation>
</entryRelationship>
</observation>
</entry>
</section>
</component>
<!-- Composition section (Medicines List) -->
<component typeCode="COMP">
    <section moodCode="EVN" classCode="DOCSECT">
        <!-- section (Medicines List) templateId-->
        <templateId root="1.2.36.1.2001.1001.102.101.100077"/>
        <id root="23d67386-2098-437a-94ff-b45c7b402d4b"/>
        <!-- section code -->
        <code code="10160-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
            displayName="History of Medication use Narrative"/>
        <!-- section title -->
        <title>Medicines List</title>
        <!-- section text -->
        <text mediaType="text/x-hl7-text+xml" ID="M11">
            <table>
                <caption>Current medicines</caption>
                <thead>
                    <tr>
                        <th>Medicine</th>
                        <th>Brand name</th>
                        <th>Direction</th>
                        <th>Medicine purpose</th>
                        <th>Medicine status</th>
                        <th>Expected end date</th>
                        <th>Special instructions</th>
                        <th>Medicine Image</th>
                        <th>Physical Description</th>
                    </tr>
                </thead>
                <tbody>
                    <tr ID="medicationstatement-ferro-grad-c">
                        <td></td>
                        <td>Ferro-Grad C</td>
                        <td>Take one tablet daily</td>
                        <td>Iron supplement</td>
                        <td>Unchanged</td>
                        <td></td>
                        <td></td>
                        <td></td>
                        <td></td>
                    </tr>
                    <tr ID="medicationstatement-amoxicillin-875mg">
                        <td></td>
                        <td>Amoxicillin 875 mg + clavulanic acid 125 mg tablet</td>
                        <td>Augmentin Duo Forte</td>
                        <td>Take one tablet twice a day</td>
                        <td>Chest infection</td>
                        <td>New</td>
                        <td>20/01/2019</td>
                        <td></td>
                        <td></td>
                    </tr>
                    <tr ID="medicationstatement-metformin-500mg">
                        <td></td>
                        <td>Metformin 500mg tablet</td>
                        <td>Sandoz</td>
                        <td>Take one tablet twice a day</td>
                    </tr>
                </tbody>
            </table>
        </text>
    </section>
</component>
```

```
<td>Reduce blood sugar</td>
<td>Amended</td>
<td/>
<td/>
<td>White and round with 227 imprinted</td>
</tr>
<tr ID="medicationstatement-multi-vitamins">
<td>Multi-vitamins</td>
<td/>
<td>Take one tablet daily</td>
<td/>
<td>Unchanged</td>
<td/>
<td/>
<td/>
</tr>
<tr ID="medicationstatement-paracetamol-665mg">
<td>Paracetamol 665 mg tablet</td>
<td>Panadol Osteo</td>
<td>Take two tablets every 6 to 8 hours when required</td>
<td>Osteoarthritis, pain relief</td>
<td>Unchanged</td>
<td/>
<td>No more than 6 tablets in 24 hours</td>
<td/>
<td/>
</tr>
</tbody>
</table>
<table>
<caption>Ceased medicines</caption>
<thead>
<tr>
<th>Medicine</th>
<th>Reason for ceasing medicine</th>
<th>Ceased date</th>
</tr>
</thead>
<tbody>
<tr ID="medicationstatement-paracetamol-500mg">
<td><!-->
```

```
<!-- PractitionerRole identifier / Practitioner identifier -->
<ext:asEntityIdentifier classCode="IDENT">
    <ext:id root="1.2.36.1.2001.1003.0.8003611566708354"
        assigningAuthorityName="HPI-I"/>
    <ext:assigningGeographicArea classCode="PLC">
        <ext:name>National Identifier</ext:name>
    </ext:assigningGeographicArea>
</ext:asEntityIdentifier>
<!--Practitioner qualification-->
<ext:asQualifications classCode="QUAL">
    <ext:code>
        <originalText>Bachelor of Pharmacy </originalText>
    </ext:code>
</ext:asQualifications>
</assignedPerson>
<!-- PractitionerRole organization -->
<representedOrganization classCode="ORG">
    <!-- representedOrganization (Base Organization) templateId-->
    <templateId root="1.2.36.1.2001.1001.102.101.100039"/>
    <id root="0c267071-8a7b-4cba-a3cc-9b571cc09ab3"/>
    <!-- Organization name -->
    <name>Test Org - Retail Pharmacy</name>
    <!-- Organization address -->
    <addr use="WP">
        <streetAddressLine>570 Whatcha St</streetAddressLine>
        <city>GLEBE</city>
        <state>NSW</state>
        <postalCode>2037</postalCode>
        <country>AU</country>
    </addr>
    <!-- Organization type-->
    <standardIndustryClassCode code="4271"
        codeSystem="1.2.36.1.2001.1005.47"
        codeSystemName="1292.0 - ANZIC - Australian and New Zealand Standard Industrial Classification"
        displayName="Retail Pharmacy"/>
    <!-- Organization identifier -->
    <ext:asEntityIdentifier classCode="IDENT">
        <ext:id assigningAuthorityName="HPI-O"
            root="1.2.36.1.2001.1003.0.8003629900033370"/>
        <ext:assigningGeographicArea classCode="PLC">
            <ext:name>National Identifier</ext:name>
        </ext:assigningGeographicArea>
    </ext:asEntityIdentifier>
</representedOrganization>
</assignedAuthor>
</author>
<!-- List packed-in-daa -->
<entryRelationship typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
        <id root="b6b89fe1-0f70-439a-bf6f-07bdf8f95339"/>
        <code code="1469401000168104"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="Medicines packed in dose administration aid indicator"/>
        <value xsi:type="CD" code="1469421000168108"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="No medicines packed in dose administration aid">
        </value>
    </observation>
</entryRelationship>
<!-- List note -->
<entryRelationship typeCode="COMP">
    <act classCode="INFRM" moodCode="EVN">
        <id root="1eff70fc-9c71-45b8-aab8-2a9c4alfaf6e"/>
        <code code="103.16044" codeSystem="1.2.36.1.2001.1001.101"
            codeSystemName="NCTIS Data Components"
            displayName="Additional Comments"/>
        <text xsi:type="ST">Please review this
            list with your pharmacist on or soon after
            02/Apr/2019.</text>
    </act>
</entryRelationship>
<!-- List encounter-->
<entryRelationship typeCode="COMP">
    <encounter classCode="ENC" moodCode="EVN">
        <!-- encounter (Summary of an Encounter for an Event) templateId-->
        <templateId root="1.2.36.1.2001.1001.102.101.100062"/>
        <id root="a2201099-367c-46a1-a611-e7c143a25a92"/>
        <!--Encounter status-->
        <statusCode code="completed"/>
        <!--Encounter period-->
        <effectiveTime xsi:type="IVL_TS">
            <low value="201812111000+1000"/>
            <high value="201812111330+1000"/>
        </effectiveTime>
        <!--Encounter type-->
        <entryRelationship typeCode="COMP">
            <observation classCode="OBS" moodCode="EVN">
                <code code="103.17018"
                    codeSystem="1.2.36.1.2001.1001.101"
                    codeSystemName="NCTIS Data Components"
                    displayName="Category"/>
                <value xsi:type="CD" code="1348961000168104"
                    codeSystem="2.16.840.1.113883.6.96"
                    codeSystemName="SNOMED CT"
                    displayName="Community pharmacy medicines review">
                    <originalText>Community pharmacy medicine
                    review</originalText>
                </value>
            </observation>
        </entryRelationship>
    </encounter>
</entryRelationship>
```

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        </value>
      </observation>
    </entryRelationship>
  </encounter>
</entryRelationship>
<!-- List entry item --&gt;
&lt;entryRelationship typeCode="COMP"&gt;
  &lt;!-- MedicationStatement taken="y" --&gt;
  &lt;substanceAdministration classCode="SBADM" moodCode="EVN"&gt;
    &lt;!-- substanceAdministration (Medicine Item Statement) templateId --&gt;
    &lt;templateId root="1.2.36.1.2001.1001.102.101.100066"/&gt;
    &lt;id root="0b1a1969-134e-46d7-84ad-c61fada43a63"/&gt;
    &lt;!-- MedicationStatement dosage text--&gt;
    &lt;text&gt;
      &lt;reference value="#medicationstatement-ferro-grad-c"/&gt;
    &lt;/text&gt;
    &lt;!-- MedicationStatement status --&gt;
    &lt;statusCode code="active"/&gt;
    &lt;!--MedicationStatement dosage timing--&gt;
    &lt;effectiveTime xsi:type="PIVL_TS"&gt;
      &lt;!-- timing repeat frequency=1, timing repeat period=1, timing repeat periodUnit=d--&gt;
      &lt;period value="1" unit="d"/&gt;
    &lt;/effectiveTime&gt;
    &lt;!-- MedicationStatement dosage dose --&gt;
    &lt;doseQuantity value="1"/&gt;
    &lt;!-- MedicationStatement medication[x] --&gt;
    &lt;consumable typeCode="CSM"&gt;
      &lt;manufacturedProduct classCode="MANU"&gt;
        &lt;!-- manufacturedProduct (Base Medication) templateId --&gt;
        &lt;templateId root="1.2.36.1.2001.1001.102.101.100068"/&gt;
        &lt;id root="c5171380-e169-4465-925e-dd0c46f6c9e4"/&gt;
        &lt;manufacturedMaterial determinerCode="KIND"&gt;
          &lt;!-- Medication code --&gt;
          &lt;code code="53373011000036103"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="Ferro-Grad C"&gt;
            &lt;originalText&gt;Ferro-Grad C&lt;/originalText&gt;
          &lt;/code&gt;
          &lt;!-- Medication form --&gt;
          &lt;ext:formCode code="154011000036109"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT" displayName="tablet"/&gt;
        &lt;/manufacturedMaterial&gt;
      &lt;/manufacturedProduct&gt;
    &lt;/consumable&gt;
    &lt;!-- MedicationStatement reasonCode --&gt;
    &lt;entryRelationship typeCode="RSON"&gt;
      &lt;observation classCode="OBS" moodCode="EVN"&gt;
        &lt;id root="bb1d6c85-42cc-4754-b86a-72b5163b2b95"/&gt;
        &lt;code code="103.10141"
          codeSystem="1.2.36.1.2001.1001.101"
          codeSystemName="NCTIS Data Components"
          displayName="Clinical Indication"/&gt;
        &lt;value xsi:type="CD"&gt;
          &lt;originalText&gt;Iron supplement&lt;/originalText&gt;
        &lt;/value&gt;
      &lt;/observation&gt;
    &lt;/entryRelationship&gt;
    &lt;!-- List entry flag --&gt;
    &lt;entryRelationship typeCode="SUBJ" inversionInd="true"&gt;
      &lt;observation classCode="OBS" moodCode="EVN"&gt;
        &lt;id root="ddfa1314-d687-4953-8404-b38fd4f0c4d0"/&gt;
        &lt;code code="288533004"
          codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED CT"
          displayName="Change values"/&gt;
        &lt;value xsi:type="CD" code="nochange"
          codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
          codeSystemName="MedicineItemChange"
          displayName="Unchanged"/&gt;
      &lt;/observation&gt;
    &lt;/entryRelationship&gt;
  &lt;/substanceAdministration&gt;
&lt;/entryRelationship&gt;
<!-- List entry item --&gt;
&lt;entryRelationship typeCode="COMP"&gt;
  &lt;!-- MedicationStatement taken="y" --&gt;
  &lt;substanceAdministration classCode="SBADM" moodCode="EVN"&gt;
    &lt;!-- substanceAdministration (Medicine Item Statement) templateId --&gt;
    &lt;templateId root="1.2.36.1.2001.1001.102.101.100066"/&gt;
    &lt;id root="ed6d657e-8a44-4f29-b40d-ed3821c9cd0a"/&gt;
    &lt;!-- MedicationStatement dosage --&gt;
    &lt;text&gt;
      &lt;reference value="#medicationstatement-amoxicillin-875mg"/&gt;
    &lt;/text&gt;
    &lt;!-- MedicationStatement status --&gt;
    &lt;statusCode code="active"/&gt;
    &lt;!--MedicationStatement effective[x] --&gt;
    &lt;effectiveTime xsi:type="IVL_TS" operator="A"&gt;
      &lt;high value="20190120"/&gt;
    &lt;/effectiveTime&gt;
    &lt;!--MedicationStatement dosage timing--&gt;
    &lt;effectiveTime xsi:type="PIVL_TS"&gt;
      &lt;!-- timing repeat frequency=2, timing repeat period=1, timing repeat periodUnit=d--&gt;
      &lt;period value="12" unit="h"/&gt;
    &lt;/effectiveTime&gt;
    &lt;!-- MedicationStatement dosage dose --&gt;
    &lt;doseQuantity value="1"/&gt;</pre>
```

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<!-- MedicationStatement medication[x] -->
<consumable typeCode="CSM">
  <manufacturedProduct classCode="MANU">
    <!-- manufacturedProduct (Base Medication) templateId -->
    <templateId root="1.2.36.1.2001.1001.102.101.100068"/>
    <id root="78548cc2-88a8-4571-b691-c5e865ffa895"/>
    <manufacturedMaterial determinerCode="KIND">
      <!-- Medication code -->
      <code code="28152011000036108"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="amoxicillin 875 mg + clavulanic acid 125 mg tablet, 10">
        <originalText>Amoxicillin 875 mg + clavulanic acid
        125 mg tablet, Augmentin Duo Forte</originalText>
        <translation code="50061"
          codeSystem="1.2.36.1.2001.1004.200.10009"
          codeSystemName="Australian Pharmaceutical Benefits Scheme Schedule Item"
          displayName="amoxicillin 875 mg + clavulanic acid 125 mg tablet, 10"/>
      </code>
    </manufacturedMaterial>
  </manufacturedProducts>
</consumable>
<!-- Medication medication-brand-name -->
<entryRelationship typeCode="COMP">
  <act classCode="ACT" moodCode="EVN">
    <id root="346ca17d-9b3a-40be-9bc9-c3e645fb0bf9"/>
    <code code="1402141000168102"
      codeSystem="2.16.840.1.113883.6.96"
      codeSystemName="SNOMED CT"
      displayName="Branded product name"/>
    <text xsi:type="ST">Augmentin Duo Forte</text>
  </act>
</entryRelationship>
<!-- MedicationStatement reasonCode -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <id root="ec99aab9-53da-448a-b2b5-6af4646181de"/>
    <code code="103.10141"
      codeSystem="1.2.36.1.2001.1001.101"
      codeSystemName="NCTIS Data Components"
      displayName="Clinical Indication"/>
    <value xsi:type="CD">
      <originalText>Chest infection</originalText>
    </value>
  </observation>
</entryRelationship>
<!-- List entry flag -->
<entryRelationship typeCode="SUBJ" inversionInd="true">
  <observation classCode="OBS" moodCode="EVN">
    <id root="1ef533a8-878a-4383-b70f-0da61cd785cf"/>
    <code code="288533004"
      codeSystem="2.16.840.1.113883.6.96"
      codeSystemName="SNOMED CT"
      displayName="Change values"/>
    <!-- List entry change-description -->
    <text>To treat chest infection</text>
    <value xsi:type="CD" code="new"
      codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
      codeSystemName="MedicineItemChange"
      displayName="New"/>
  </observation>
</entryRelationship>
</substanceAdministration>
</entryRelationship>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
  <!-- MedicationStatement taken="y" -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!-- substanceAdministration (Medicine Item Statement) templateId -->
    <templateId root="1.2.36.1.2001.1001.102.101.100066"/>
    <id root="217584d0-6c18-4007-blec-690c92b188db"/>
    <!-- MedicationStatement dosage -->
    <text>
      <reference value="#medicationstatement-metformin-500mg"/>
    </text>
    <!-- MedicationStatement status -->
    <statusCode code="active"/>
    <!-- MedicationStatement dosage timing -->
    <effectiveTime xsi:type="PIV1_TS">
      <!-- timing repeat frequency=2, timing repeat period=1, timing repeat periodUnit=d-->
      <period value="12" unit="h"/>
    </effectiveTime>
    <!-- MedicationStatement dosage dose -->
    <doseQuantity value="1"/>
    <!-- MedicationStatement medication[x] -->
    <consumable typeCode="CSM">
      <manufacturedProduct classCode="MANU">
        <!-- manufacturedProduct (Base Medication) templateId -->
        <templateId root="1.2.36.1.2001.1001.102.101.100068"/>
        <id root="b1914fb8-61be-47dc-84b2-4cf376f69002"/>
        <manufacturedMaterial determinerCode="KIND">
          <!-- Medication code -->
          <code code="23358011000036102"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="metformin hydrochloride 500 mg tablet">
            <originalText>Metformin 500mg tablet,
            Sandoz</originalText>
            <translation code="2430X"
```

```

        codeSystem="1.2.36.1.2001.1004.200.10009"
        codeSystemName="Australian Pharmaceutical Benefits Scheme Schedule Item"
        displayName="metformin hydrochloride 500 mg tablet, 100" />
    </code>
    </manufacturedMaterial>
</consumable>
<!-- Medication medication-brand-name -->
<entryRelationship typeCode="COMP">
    <act classCode="ACT" moodCode="EVN">
        <id root="26e0fd6-e226-4b40-8fd3-bd0c0f51889f" />
        <code code="1402141000168102"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="Branded product name" />
        <text xsi:type="ST">Sandoz</text>
    </act>
</entryRelationship>
<!-- MedicationStatement reasonCode -->
<entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
        <id root="85b7ec11-da45-4b0a-af9e-edb271577f01" />
        <code code="103.10141"
            codeSystem="1.2.36.1.2001.1001.101"
            codeSystemName="INCTIS Data Components"
            displayName="Clinical Indication" />
        <value xsi:type="CD">
            <originalText>Reduce blood sugar</originalText>
        </value>
    </observation>
</entryRelationship>
<!-- List entry flag -->
<entryRelationship typeCode="SUBJ" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
        <id root="a75edb7e-d0be-46ab-b496-36ec580380c0" />
        <code code="288533004"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="Change values" />
        <text>Dose increased from 250mg to 500mg</text>
        <value xsi:type="CD" code="amended"
            codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
            codeSystemName="MedicineItemChange"
            displayName="Amended" />
    </observation>
</entryRelationship>
</substanceAdministration>
</entryRelationship>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
    <!-- MedicationStatement taken="y" -->
    <substanceAdministration classCode="SBADM" moodCode="EVN">
        <!-- substanceAdministration (Medicine Item Statement) templateId -->
        <templateId root="1.2.36.1.2001.1001.102.101.100066" />
        <id root="07c6bad3-926c-458b-b434-79246cb45fda" />
        <!-- MedicationStatement dosage -->
        <text>
            <reference value="#medicationstatement-multi-vitamins" />
        </text>
        <!-- MedicationStatement status -->
        <statusCode code="active" />
        <!--MedicationStatement dosage timing-->
        <effectiveTime xsi:type="PIVIL_TS">
            <!-- timing repeat frequency=1, timing repeat period=1, timing repeat periodUnit=d-->
            <period value="1" unit="d" />
        </effectiveTime>
        <!-- MedicationStatement dosage dose -->
        <doseQuantity value="1" />
        <!-- MedicationStatement medication[x] -->
        <consumable typeCode="CSM">
            <manufacturedProduct classCode="MANU">
                <!-- manufacturedProduct (Base Medication) templateId -->
                <templateId root="1.2.36.1.2001.1001.102.101.100068" />
                <id root="e9bfa7ef-573c-46bb-90d3-12a3b2f6c05e" />
                <manufacturedMaterial determinerCode="KIND">
                    <!-- Medication code -->
                    <code>
                        <originalText>Multi-vitamins</originalText>
                    </code>
                    <!-- Medication form -->
                    <ext:formCode code="154011000036109"
                        codeSystem="2.16.840.1.113883.6.96"
                        codeSystemName="SNOMED CT" displayName="tablet" />
                </manufacturedMaterial>
            </manufacturedProduct>
        </consumable>
        <!-- List entry flag -->
        <entryRelationship typeCode="SUBJ" inversionInd="true">
            <observation classCode="OBS" moodCode="EVN">
                <id root="92dd8e7c-f402-4ef5-b033-10f602be14c1" />
                <code code="288533004"
                    codeSystem="2.16.840.1.113883.6.96"
                    codeSystemName="SNOMED CT"
                    displayName="Change values" />
                <value xsi:type="CD" code="nochange"
                    codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
                    codeSystemName="MedicineItemChange"
                    displayName="Unchanged" />
            </observation>

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</entryRelationship>
</substanceAdministration>
</entryRelationship>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
    <!-- MedicationStatement taken="y" -->
    <substanceAdministration classCode="SBADM" moodCode="EVN">
        <!-- substanceAdministration (Medicine Item Statement) templateId -->
        <templateId root="1.2.36.1.2001.1001.102.101.100066"/>
        <id root="fca75696-c85f-4664-9712-8be2f9adade6"/>
        <!-- MedicationStatement dosage -->
        <text>
            <reference value="#medicationstatement-paracetamol-665mg"/>
        </text>
        <!-- MedicationStatement status -->
        <statusCode code="active"/>
        <!-- MedicationStatement dosage timing -->
        <effectiveTime xsi:type="PIVL_TS" operator="A">
            <!-- timing repeat frequency=1, timing repeat period=6, timing repeat periodUnit=h, timing repeat periodMax=8-->
            <period xsi:type="IVL_PQ">
                <low value="6" unit="h"/>
                <high value="8" unit="h"/>
            </period>
        </effectiveTime>
        <!-- MedicationStatement dosage dose -->
        <doseQuantity value="2"/>
        <!-- MedicationStatement dosage maxDosePerPeriod -->
        <maxDoseQuantity>
            <!-- maxDosePerPeriod numerator=6; maxDosePerPeriod denominator unit=h and value=24-->
            <numerator unit="6"/>
            <denominator unit="h" value="24"/>
        </maxDoseQuantity>
        <!-- MedicationStatement medication[x] -->
        <consumable typeCode="CSM">
            <manufacturedProduct classCode="MANU">
                <!-- manufacturedProduct (Base Medication) templateId -->
                <templateId root="1.2.36.1.2001.1001.102.101.100068"/>
                <id root="ecfa16da-a130-44ca-ae24-79f692384bc8"/>
                <manufacturedMaterial determinerCode="KIND">
                    <!-- Medication code -->
                    <code code="22075011000036103"
                        codeSystem="2.16.840.1.113883.6.96"
                        codeSystemName="SNOMED CT"
                        displayName="paracetamol 665 mg modified release tablet">
                        <originalText>Paracetamol 665mg tablet; Panadol Osteo</originalText>
                    <translation code="8814X"
                        codeSystem="1.2.36.1.2001.1004.200.10009"
                        codeSystemName="Australian Pharmaceutical Benefits Scheme Schedule Item"
                        displayName="paracetamol 665 mg modified release tablet, 96"/>
                    </code>
                    <!-- Medication ingredient -->
                    <ext:asIngredient classCode="INGR">
                        <!-- Medication ingredient item -->
                        <ext:ingredientManufacturedMaterial
                            classCode="MMAT" determinerCode="KIND">
                            <ext:code code="21433011000036107"
                                codeSystem="2.16.840.1.113883.6.96"
                                codeSystemName="SNOMED CT"
                                displayName="Paracetamo1"/>
                        </ext:ingredientManufacturedMaterial>
                        <!-- Medication ingredient amount -->
                        <ext:quantity>
                            <numerator unit="mg" value="665"/>
                            <denominator value="1"/>
                        </ext:quantity>
                    </ext:asIngredient>
                    <!-- Medication form -->
                    <ext:formCode code="261011000036101"
                        codeSystem="2.16.840.1.113883.6.96"
                        codeSystemName="SNOMED CT"
                        displayName="modified release tablet"/>
                </manufacturedMaterial>
            </manufacturedProduct>
        </consumable>
        <!-- Medication medication-generic-name -->
        <entryRelationship typeCode="COMP">
            <act classCode="ACT" moodCode="EVN">
                <id root="2dbdef9e-5268-4a96-9f4d-c4545683b380"/>
                <code code="1402131000168106"
                    codeSystem="2.16.840.1.113883.6.96"
                    codeSystemName="SNOMED CT"
                    displayName="Generic product name"/>
                <text xsi:type="ST">Paracetamol 665mg tablet</text>
            </act>
        </entryRelationship>
        <!-- Medication medication-brand-name -->
        <entryRelationship typeCode="COMP">
            <act classCode="ACT" moodCode="EVN">
                <id root="8e538a16-0d07-41aa-8d30-9dd064b76003"/>
                <code code="1402141000168102"
                    codeSystem="2.16.840.1.113883.6.96"
                    codeSystemName="SNOMED CT"
                    displayName="Branded product name"/>
                <text xsi:type="ST">Panadol Osteo</text>
            </act>
        </entryRelationship>
        <!-- MedicationStatement reasonCode -->
        <entryRelationship typeCode="RSON">
```

```
<observation classCode="OBS" moodCode="EVN">
  <id root="39c066c4-fba4-490e-aae1-a0f823e2aaaa"/>
  <code code="103.10141"
    codeSystem="1.2.36.1.2001.1001.101"
    codeSystemName="NCTIS Data Components"
    displayName="Clinical Indication"/>
  <value xsi:type="CD">
    <originalText>Osteoarthritis, pain
      relief</originalText>
    </value>
  </observation>
</entryRelationship>
<!-- List entry flag -->
<entryRelationship typeCode="SUBJ" inversionInd="true">
  <observation classCode="OBS" moodCode="EVN">
    <id root="91ab74ac-eb52-4bc3-8f10-37efc7fe0741"/>
    <code code="288533004"
      codeSystem="2.16.840.1.113883.6.96"
      codeSystemName="SNOMED CT"
      displayName="Change values"/>
    <value xsi:type="CD" code="nochange"
      codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
      codeSystemName="MedicineItemChange"
      displayName="Unchanged"/>
  </observation>
</entryRelationship>
<!-- MedicationStatement dosage asNeeded -->
<precondition typeCode="PRCN">
  <criterion>
    <code code="ASSERTION"
      codeSystem="2.16.840.1.113883.5.4"/>
    <value xsi:type="BL" value="true"/>
  </criterion>
</precondition>
</substanceAdministration>
</entryRelationship>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
  <!-- MedicationStatement taken="y" -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!-- substanceAdministration (Medicine Item Statement) templateId -->
    <templateId root="1.2.36.1.2001.1001.102.101.100066"/>
    <id root="f9a3d6e1-6de2-4e35-88ef-531940e2929a"/>
    <text>
      <reference value="#medicationstatement-paracetamol-500mg"/>
    </text>
    <!-- MedicationStatement status -->
    <statusCode code="aborted"/>
    <!--MedicationStatement effective[x] -->
    <effectiveTime xsi:type="IVL_TS">
      <high value="201812"/>
    </effectiveTime>
    <!-- MedicationStatement medication[x] -->
    <consumable typeCode="CSM">
      <manufacturedProduct classCode="MANU">
        <!-- manufacturedProduct (Base Medication) templateId -->
        <templateId root="1.2.36.1.2001.1001.102.101.100068"/>
        <id root="3c086c5e-5218-4035-82b9-a856f6f49e61"/>
        <manufacturedMaterial determinerCode="KIND">
          <!-- Medication code -->
          <code code="23628011000036109"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="Paracetamol 500 mg tablet">
            <originalText>Paracetamol 500 mg
              tablet</originalText>
          </code>
        </manufacturedMaterial>
      </manufacturedProduct>
    </consumable>
    <!-- List entry flag -->
    <entryRelationship typeCode="SUBJ" inversionInd="true">
      <observation classCode="OBS" moodCode="EVN">
        <id root="8a4fcfbc3-5f08-4fc0-8661-b55b3e0e2e6f"/>
        <code code="288533004"
          codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED CT"
          displayName="Change values"/>
      <!-- List entry change-description -->
      <text>Duplicated medicine</text>
      <value xsi:type="CD" code="ceased"
        codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
        codeSystemName="MedicineItemChange"
        displayName="Ceased"/>
    </observation>
  </entryRelationship>
</substanceAdministration>
</entryRelationship>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
  <!-- MedicationStatement taken="y" -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!-- substanceAdministration (Medicine Item Statement) templateId -->
    <templateId root="1.2.36.1.2001.1001.102.101.100066"/>
    <id root="0b6fla8a-fe8c-4746-9ec8-3a4a2bbbeb61a"/>
    <text>
      <reference value="#medicationstatement-ibuprofen"/>
    </text>
    <!-- MedicationStatement status -->
```

```
<statusCode code="aborted"/>
<!-- MedicationStatement medication[x] -->
<consumable typeCode="CSM">
  <manufacturedProduct classCode="MANU">
    <!-- manufacturedProduct (Base Medication) templateId -->
    <templateId root="1.2.36.1.2001.1001.102.101.100068"/>
    <id root="6be58051-819d-49cd-be37-c0d964d3d416">
      <manufacturedMaterial determinerCode="KIND">
        <!-- Medication code -->
        <code code="21885011000036105"
          codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED CT" displayName="Ibuprofen">
          <originalText>Ibuprofen</originalText>
          <translation code="3192B"
            codeSystem="1.2.36.1.2001.1004.200.10009"
            codeSystemName="Australian Pharmaceutical Benefits Scheme Schedule Item"
            displayName="IBUPROFEN"/>
        </code>
      </manufacturedMaterial>
    </manufacturedProduct>
  </consumable>
  <!-- List entry flag -->
  <entryRelationship typeCode="SUBJ" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
      <id root="b75442a1-b13d-4306-878c-2e733e836bd0"/>
      <code code="288533004"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Change values"/>
      <!-- List entry change-description -->
      <text>Allergic reaction</text>
      <value xsi:type="CD" code="ceased"
        codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
        codeSystemName="MedicineItemChange"
        displayName="Ceased"/>
    </observation>
  </entryRelationship>
  <!-- substanceAdministration -->
  </entryRelationship>
</act>
</entry>
</section>
</component>
</structuredBody>
</component>
</ClinicalDocument>
```

## B.2 Home Medicines Review Report for Mr. Lenny Matterson

This informative appendix provides an example instance that conforms to the requirements of this implementation guide.

### Example B.2. Home Medicines Review Report for Mr. Lenny Matterson

```
<!-- This example is illustrative only. This fragment cannot be treated as clinically valid.  
While every effort has been taken to ensure that the examples are consistent with the message specification, where  
there are conflicts with the written message specification or schema, the specification or schema will take precedence. -->  
<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
    xmlns="urn:hl7-org:v3" xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0">  
    <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>  
    <!-- ClinicalDocument templateId -->  
    <templateId root="1.2.36.1.2001.1001.102.101.100033"/>  
    <!-- ClinicalDocument (Shared Medicines List Authored by Practitioner) templateId -->  
    <templateId root="1.2.36.1.2001.1001.102.101.100065"/>  
    <!-- CDA Rendering Specification templateId -->  
    <templateId root="1.2.36.1.2001.1001.100.149"/>  
    <id root="ae22a11e-bca4-11e9-9cb5-2a2ae2dbcce4"/>  
    <!-- Composition type-->  
    <code code="56445-0" codeSystem="2.16.840.1.113883.6.1" displayName="Medication summary"/>  
    <!-- Composition title-->  
    <title>Home Medicines Review Report for Mr. Lenny Matterson</title>  
    <effectiveTime value="20190205"/>  
    <confidentialityCode nullFlavor="NA"/>  
    <languageCode code="en-AU"/>  
    <setid root="41699a72-e0b1-4300-9d4a-aac3149feffc"/>  
    <versionNumber value="2"/>  
    <!-- Composition status-->  
    <ext:completionCode code="F" codeSystem="1.2.36.1.2001.1001.101.104.20104" displayName="Final"/>  
    <!-- Composition subject -->  
    <recordTarget>  
        <!-- recordTarget (My Health Record Patient) templateId-->  
        <templateId root="1.2.36.1.2001.1001.102.101.100091"/>  
        <!-- recordTarget (Patient with Mandatory Identifier) templateId-->  
        <templateId root="1.2.36.1.2001.1001.102.101.100004"/>  
        <patientRole>  
            <id root="c0afb854-3c7f-4f26-98ba-9c6fb0d6777"/>  
            <patient>  
                <!-- Patient name -->  
                <name>  
                    <prefix>Mr.</prefix>  
                    <given>Lenny</given>  
                    <family>MATTERSON</family>  
                </name>  
                <!-- Patient gender -->  
                <administrativeGenderCode code="male" codeSystem="2.16.840.1.113883.4.642.4.2"  
                    displayName="Male"/>  
                <!-- Patient birthDate & patient-birthTime -->  
                <birthTime value="19550206061700+1000"/>  
                <!-- Patient indigenous-status -->  
                <ethnicGroupCode code="1" codeSystem="1.2.36.1.2001.1004.200.10012"  
                    displayName="Aboriginal but not Torres Strait Islander origin"/>  
                <!-- Patient identifier -->  
                <ext:asEntityIdentifier classCode="IDENT">  
                    <ext:id assigningAuthorityName="IHI"  
                        root="1.2.36.1.2001.1003.0.8003608166895854"/>  
                    <ext:assigningGeographicArea classCode="PLC">  
                        <ext:name>National Identifier</ext:name>  
                    </ext:assigningGeographicArea>  
                </ext:asEntityIdentifier>  
                <!-- Patient identifier -->  
                <ext:asEntityIdentifier classCode="IDENT">  
                    <ext:id assigningAuthorityName="Medicare Card Number" root="1.2.36.1.5001.1.0.7"  
                        extension="5950890021"/>  
                    <ext:code code="MC" codeSystem="2.16.840.1.113883.12.203"  
                        displayName="Patient's Medicare number"/>  
                </ext:asEntityIdentifier>  
                <!-- Patient communication language-->  
                <languageCommunication>  
                    <languageCode code="pjt"/>  
                </languageCommunication>  
            </patient>  
        </patientRole>  
    </recordTarget>  
    <!-- Composition composition-author-role and Composition author -->  
    <author>  
        <!-- author (PractitionerRole with Practitioner with Mandatory Identifier) templateId-->  
        <templateId root="1.2.36.1.2001.1001.102.101.100006"/>  
        <!-- Composition date -->  
        <time value="20190205"/>  
        <assignedAuthor>  
            <id root="cc61a87e-c467-4aa9-9f6a-ea4f8a1d5d16"/>  
            <!-- PractitionerRole code -->  
            <code code="251513" codeSystem="2.16.840.1.113883.13.62" displayName="Retail Pharmacist"/>  
            <!-- Practitioner address -->  
            <addr use="WP">50034 Queen St, Coburg, VIC 3058</addr>  
            <!-- Practitioner telecom -->  
            <telecom use="WP" value="fax:0370102020"/>  
            <!-- PractitionerRole practitioner -->  
            <assignedPerson>
```

```
<!-- assignedPerson (Practitioner with Mandatory Identifier) templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100040"/>
<!-- Practitioner name -->
<name use="L">
  <prefix>Mr.</prefix>
  <given>Ned</given>
  <family>DEACON</family>
</name>
<!-- PractitionerRole identifier / Practitioner identifier -->
<ext:asEntityIdentifier classCode="IDENT">
  <ext:id root="1.2.36.1.2001.1003.0.8003616566708106"
    assigningAuthorityName="HPI-I"/>
  <ext:assigningGeographicArea classCode="PLC">
    <ext:name>National Identifier</ext:name>
  </ext:assigningGeographicArea>
</ext:asEntityIdentifier>
<!-- PractitionerRole identifier -->
<ext:asEntityIdentifier classCode="IDENT">
  <ext:id root="1.2.36.1.74030967.0.2" extension="5544887B"
    assigningAuthorityName="Medicare Provider Number"/>
  <ext:code code="PRN" codeSystem="2.16.840.1.113883.12.203"/>
  <ext:assigningGeographicArea classCode="PLC">
    <ext:name>National Identifier</ext:name>
  </ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</assignedPerson>
</assignedAuthor>
</author>
<!-- Composition custodian -->
<custodian>
  <!-- custodian (Organization with Mandatory Identifier) templateId-->
  <templateId root="1.2.36.1.2001.1001.102.101.100002"/>
  <assignedCustodian>
    <representedCustodianOrganization>
      <id root="728b84ca-9b80-4999-ac54-95973dce08ad"/>
      <!-- Organization.name -->
      <name>Big Pharmacy</name>
      <!-- Organization identifier -->
      <ext:asEntityIdentifier classCode="IDENT">
        <ext:id assigningAuthorityName="HPI-O"
          root="1.2.36.1.2001.1003.0.800362656699734"/>
        <ext:assigningGeographicArea classCode="PLC">
          <ext:name>National Identifier</ext:name>
        </ext:assigningGeographicArea>
      </ext:asEntityIdentifier>
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>
<!-- Composition attester (Legal Attester) -->
<legalAuthenticator>
  <templateId root="1.2.36.1.2001.1001.102.101.100012"/>
  <time value="20190205"/>
  <signatureCode code="S"/>
  <assignedEntity>
    <id root="cc61a87e-c467-4aa9-9f6a-ea4f8ald5d16"/>
    <assignedPerson>
      <!-- Practitioner name -->
      <name use="L">
        <prefix>Mr.</prefix>
        <given>Ned</given>
        <family>DEACON</family>
      </name>
      <!-- Practitioner identifier -->
      <ext:asEntityIdentifier classCode="IDENT">
        <ext:id root="1.2.36.1.2001.1003.0.8003616566708106"
          assigningAuthorityName="HPI-I"/>
        <ext:assigningGeographicArea classCode="PLC">
          <ext:name>National Identifier</ext:name>
        </ext:assigningGeographicArea>
      </ext:asEntityIdentifier>
    </assignedPerson>
  </assignedEntity>
</legalAuthenticator>
<!-- Composition encounter-->
<componentOf>
  <encompassingEncounter>
    <!-- encompassingEncounter (Summary of an Encounter for an Event) templateId-->
    <templateId root="1.2.36.1.2001.1001.102.101.100064"/>
    <id root="8b0c25e2-7098-486a-89d5-38b6e8dd4e95"/>
    <!--Encounter class -->
    <code code="HRI" codeSystem="2.16.840.1.113883.5.4" displayName="home health"/>
    <!--Encounter period -->
    <effectiveTime xsi:type="IVL_TS">
      <low value="20190205100000+1000"/>
      <high value="20190205111500+1000"/>
    </effectiveTime>
  </encompassingEncounter>
</componentOf>
<component>
  <structuredBody>
    <!-- Composition section (Medicines List) -->
    <component>
      <section>
        <!-- section (Medicines List) templateId-->
        <templateId root="1.2.36.1.2001.1001.102.101.100077"/>
        <id root="5a0ac820-2507-4f72-b164-ac3d4bc353fb"/>
        <!-- section code -->
        <code code="101.32009" codeSystem="1.2.36.1.2001.1001.101"
```

```
        displayName="Current Medicines" />
<!-- section title -->
<title>Current Medicines</title>
<!-- section text -->
<text mediaType="text/x-hl7-text+xml">
<table border="1">
<caption>Home Medicines Review</caption>
<thead>
<tr>
<th>Date of Interview</th>
<th/>
<th>General Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Feb 2019 10:00AM - 5 Feb 2019 11:15AM</td>
<td>Home medicines review</td>
<td>Patient has his medications packed into blister packs via ABC pharmacy. He finds them easy to use and they promote good adherence to his regime. His Bluecare nurse, Nurse B, was present for the interview. Of the medication listed on the referral, he is not currently taking Aldara 5% cream and Chloramphenicol ointment. In addition to the medication listed on the referral, he is also taking coQ10 150mg tab - 1 nocte. He reports occasional dizziness if he changes position quickly, and does report falling outside in the garden; he wears a falls alarm buzzer. He reports that he generally only experiences chest pain when he becomes stressed (doesn't like paperwork). His blood pressure at the time of the interview was 158 /76.</td>
</tr>
</tbody>
</table>
<table border="1">
<caption>Current Medicines</caption>
<thead>
<tr>
<th>Medicine</th>
<th>Directions</th>
<th>Medicine purpose</th>
<th>Medicine status</th>
<th>Status Reason/Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amiodarone 200mg tab</td>
<td>1 in the morning</td>
<td></td>
<td>Unchanged</td>
<td></td>
</tr>
<tr>
<td>Bisoprolol 2.5mg tab</td>
<td>1/2 tablet in the morning</td>
<td></td>
<td>Unchanged</td>
<td></td>
</tr>
<tr>
<td>CoQ10 150mg tab</td>
<td>1 at night</td>
<td></td>
<td>New</td>
<td>In pack - new finding of Atrial fibrillation</td>
</tr>
</tbody>
</table>
<p>Packed medicines: Some medicines packed in dose administration aid</p>
</text>
<!-- section entry -->
<entry>
<act classCode="ACT" moodCode="EVN">
<!-- act (List of Medicine Items with Change Information Authored by Practitioner) templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100067"/>
<!-- List code-->
<code code="101.32009" codeSystem="1.2.36.1.2001.1001.101" displayName="Current Medicines"/>
<!-- List status -->
<statusCode code="active"/>
<!-- List date -->
<effectiveTime value="20190205"/>
<!-- List author-role / List source -->
<author>
<!-- author (PractitionerRole with Practitioner with Mandatory Identifier) templateId-->
<templateId root="1.2.36.1.2001.1001.102.101.100006"/>
<time value="20190205"/>
<assignedAuthor>
<id root="cc61a87e-c467-4aa9-9f6a-ea4f8a1d5d16"/>
<!-- PractitionerRole code -->
<code code="251513" codeSystem="2.16.840.1.113883.13.62" displayName="Retail Pharmacist"/>
<!-- Practitioner address -->
<addr use="WP">50034 Queen St, Coburg, VIC 3058</addr>
<!-- Practitioner telecom -->
<telecom use="WP" value="fax:0370102020"/>
<!-- PractitionerRole practitioner -->
<assignedPerson>
```

```
<!-- assignedPerson (Practitioner with Mandatory Identifier) templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100040"/>
<!-- Practitioner name -->
<name use="L">
  <prefix>Mr.</prefix>
  <given>Ned</given>
  <family>DEACON</family>
</name>
<!-- PractitionerRole identifier / Practitioner identifier -->
<ext:asEntityIdentifier classCode="IDENT">
  <ext:id root="1.2.36.1.2001.1003.0.8003616566708106"
    assigningAuthorityName="HPI-I"/>
  <ext:assigningGeographicArea classCode="PLC">
    <ext:name>National Identifier</ext:name>
  </ext:assigningGeographicArea>
</ext:asEntityIdentifier>
<!-- PractitionerRole identifier -->
<ext:asEntityIdentifier classCode="IDENT">
  <ext:id root="1.2.36.1.2001.1003.0.8003616566708106"
    assigningAuthorityName="Medicare Provider Number"/>
  <ext:code code="PRN"
    codeSystem="2.16.840.1.113883.12.203"/>
  <ext:assigningGeographicArea classCode="PLC">
    <ext:name>National Identifier</ext:name>
  </ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</assignedPerson>
</assignedAuthor>
</author>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
  <!-- MedicationStatement taken="y" -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!-- substanceAdministration (Medicine Item Statement) templateId -->
    <templateId root="1.2.36.1.2001.1001.102.101.100066"/>
    <id root="41f2a705-b51c-41a7-a573-529457ead1d7"/>
    <!-- MedicationStatement dosage -->
    <text>Amiodarone 200mg tab; 1 in the morning</text>
    <!-- MedicationStatement status -->
    <statusCode code="active"/>
    <!-- MedicationStatement medication[x] -->
    <consumable>
      <manufacturedProduct>
        <!-- manufacturedProduct (Base Medication) templateId -->
        <templateId root="1.2.36.1.2001.1001.102.101.100068"/>
        <manufacturedMaterial determinerCode="KIND">
          <!-- Medication code -->
          <code>
            <originalText>Amiodarone 200mg tab</originalText>
          </code>
        </manufacturedMaterial>
      </manufacturedProduct>
    </consumable>
    <!-- List entry flag -->
    <entryRelationship typeCode="SUBJ" inversionInd="true">
      <observation classCode="OBS" moodCode="EVN">
        <code code="288533004"
          codeSystem="2.16.840.1.113883.6.96"
          displayName="Change values"/>
        <value xsi:type="CD" code="nochange"
          codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
          displayName="Unchanged"/>
      </observation>
    </entryRelationship>
  </substanceAdministration>
</entryRelationship>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
  <!-- MedicationStatement taken="y" -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!-- substanceAdministration (Medicine Item Statement) templateId -->
    <templateId root="1.2.36.1.2001.1001.102.101.100066"/>
    <id root="8ec35b86-7a65-4721-8698-5abd4745f4c2"/>
    <!-- MedicationStatement dosage -->
    <text>Bisoprolol 2.5mg tab; 1/2 tablet in the morning</text>
    <!-- MedicationStatement status -->
    <statusCode code="active"/>
    <!-- MedicationStatement medication[x] -->
    <consumable>
      <manufacturedProduct>
        <!-- manufacturedProduct (Base Medication) templateId -->
        <templateId root="1.2.36.1.2001.1001.102.101.100068"/>
        <manufacturedMaterial determinerCode="KIND">
          <!-- Medication code -->
          <code code="23281011000036106"
            codeSystem="2.16.840.1.113883.6.96"
            displayName="bisoprolol fumarate 2.5 mg tablet">
            <originalText>Bisoprolol 2.5mg tab</originalText>
          </code>
        </manufacturedMaterial>
      </manufacturedProduct>
    </consumable>
    <!-- List entry flag -->
    <entryRelationship typeCode="SUBJ" inversionInd="true">
      <observation classCode="OBS" moodCode="EVN">
        <code code="288533004"
          codeSystem="2.16.840.1.113883.6.96"
          displayName="Change values"/>
        <value xsi:type="CD" code="nochange"
```

```
        codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
        displayName="Unchanged"/>
    </observation>
    </entryRelationship>
</substanceAdministration>
</entryRelationship>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
    <!-- MedicationStatement taken="y" -->
    <substanceAdministration classCode="SBADM" moodCode="EVN">
        <!-- substanceAdministration (Medicine Item Statement) templateId -->
        <templateId root="1.2.36.1.2001.1001.102.101.100066"/>
        <id root="222ac944-5bc8-4205-9d71-eb3a69817ebb"/>
        <!-- MedicationStatement dosage -->
        <text>CoQ10 150mg tab; 1 at night; New; In pack - new finding of
            Atrial fibrillation</text>
        <!-- MedicationStatement status -->
        <statusCode code="active"/>
        <!-- MedicationStatement medication[x] -->
        <consumable>
            <manufacturedProduct>
                <!-- manufacturedProduct (Base Medication) templateId -->
                <templateId root="1.2.36.1.2001.1001.102.101.100068"/>
                <manufacturedMaterial determinerCode="KIND">
                    <!-- Medication code -->
                    <code code="920941011000036100"
                        codeSystem="2.16.840.1.113883.6.96"
                        displayName="CoQ10 (Blackmores)">
                        <originalText>CoQ10 150mg tab</originalText>
                    </code>
                </manufacturedMaterial>
            </manufacturedProduct>
        </consumable>
        <!-- List entry flag -->
        <entryRelationship typeCode="SUBJ" inversionInd="true">
            <observation classCode="OBS" moodCode="EVN">
                <code code="288533004"
                    codeSystem="2.16.840.1.113883.6.96"
                    displayName="Change values"/>
                <!-- List entry change-description -->
                <text>New finding of Atrial fibrillation</text>
                <value xsi:type="CD" code="new"
                    codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
                    displayName="New"/>
            </observation>
        </entryRelationship>
    </substanceAdministration>
</entryRelationship>
<!-- List packed-in-daa -->
<entryRelationship typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
        <code code="1469401000168104"
            codeSystem="2.16.840.1.113883.6.96"
            displayName="Medicines packed in dose administration aid indicator"/>
        <value xsi:type="CD" code="1469411000168101"
            codeSystem="2.16.840.1.113883.6.96"
            displayName="Some medicines packed in dose administration aid">
            <originalText>Some medicines packed in dose administration
                aid</originalText>
        </value>
    </observation>
</entryRelationship>
<!-- List encounter -->
<entryRelationship typeCode="COMP">
    <encounter classCode="ENC" moodCode="EVN">
        <!-- encounter (Summary of an Encounter for an Event) templateId-->
        <templateId root="1.2.36.1.2001.1001.102.101.100062"/>
        <id root="8b0c25e2-7098-486a-89d5-38b6e8dd4e95"/>
        <!-- Encounter class-->
        <code code="HH" codeSystem="2.16.840.1.113883.5.4"
            displayName="home health"/>
        <!-- Encounter encounter-description -->
        <text>Patient has his medications packed into blister packs via
            ABC pharmacy. He finds them easy to use and they promote
            good adherence to his regime. His Bluecare nurse, Nurse B,
            was present for the interview. Of the medication listed on
            the referral, he is not currently taking Aldara 5% cream and
            Chloramphenicol ointment. In addition to the medication
            listed on the referral, he is also taking coQ10 150mg tab -
            1 nocte. He reports occasional dizziness if he changes
            position quickly, and does report falling outside in the
            garden; he wears a falls alarm buzzer. He reports that he
            generally only experiences chest pain when he becomes
            stressed (doesn't like paperwork). His blood pressure at the
            time of the interview was 158 /76.</text>
        <!--Encounter status-->
        <statusCode code="completed"/>
        <!--Encounter period-->
        <effectiveTime xsi:type="IVL_TS">
            <low value="20190205100000+1000"/>
            <high value="20190205111500+1000"/>
        </effectiveTime>
        <!--Encounter type-->
        <entryRelationship typeCode="COMP">
            <observation classCode="OBS" moodCode="EVN">
                <code code="103.17018"
                    codeSystem="1.2.36.1.2001.1001.101"
                    displayName="Category"/>
                <value xsi:type="CD" code="1348931000168107">
```

```
        codeSystem="2.16.840.1.113883.6.96"
        displayName="Home medicines review"
        <originalText>Home medicines review</originalText>
        </value>
    </observation>
    </entryRelationship>
</encounter>
</entryRelationship>
</act>
</entry>
</section>
</component>
<!-- Composition section (Medicines List) --&gt;
&lt;component&gt;
&lt;section&gt;
<!-- section (Medicines List) templateId--&gt;
&lt;templateId root="1.2.36.1.2001.1001.102.101.100077"/&gt;
&lt;id root="0b7fbad6-c5a0-42c6-bd66-8a983ed69a2a"/&gt;
<!-- section code --&gt;
&lt;code code="101.32027" codeSystem="1.2.36.1.2001.1001.101"
      displayName="Ceased Medicines"/&gt;
<!-- section title --&gt;
&lt;title&gt;Ceased medicines&lt;/title&gt;
<!-- section text --&gt;
&lt;text mediaType="text/x-hl7-text+xml"&gt;
    &lt;table border="1"&gt;
        &lt;caption&gt;Ceased medicines&lt;/caption&gt;
        &lt;thead&gt;
            &lt;tr&gt;
                &lt;th&gt;Ceased medicine&lt;/th&gt;
                &lt;th&gt;Reason for ceasing&lt;/th&gt;
            &lt;/tr&gt;
        &lt;/thead&gt;
        &lt;tbody&gt;
            &lt;tr&gt;
                &lt;td&gt;Aldara 5% cream&lt;/td&gt;
                &lt;td&gt;Completed 8-week course&lt;/td&gt;
            &lt;/tr&gt;
            &lt;tr&gt;
                &lt;td&gt;Chloramphenicol 1% eye ointment&lt;/td&gt;
                &lt;td&gt;Stopped due to burning sensation in the eye.&lt;/td&gt;
            &lt;/tr&gt;
        &lt;/tbody&gt;
    &lt;/table&gt;
    &lt;p&gt;Packed medicines:No medicines packed in dose administration aid&lt;/p&gt;
&lt;/text&gt;
<!-- section entry --&gt;
&lt;entry&gt;
    &lt;act classCode="ACT" moodCode="EVN"&gt;
        &lt!-- act (List of Medicine Items with Change Information Authored by Practitioner) templateId --&gt;
        &lt;templateId root="1.2.36.1.2001.1001.102.101.100067"/&gt;
        &lt!-- List code --&gt;
        &lt;code code="101.32027" codeSystem="1.2.36.1.2001.1001.101"
              displayName="Ceased Medicines"/&gt;
        &lt!-- List status --&gt;
        &lt;statusCode code="active"/&gt;
        &lt!-- List date --&gt;
        &lt;effectiveTime value="20190205"/&gt;
        &lt!-- List author-role / List source --&gt;
        &lt;author&gt;
            &lt!-- author (PractitionerRole with Practitioner with Mandatory Identifier) templateId--&gt;
            &lt;templateId root="1.2.36.1.2001.1001.102.101.100006"/&gt;
            &lt!-- List date --&gt;
            &lt;time value="20190205"/&gt;
            &lt;assignedAuthor&gt;
                &lt;id root="cc61a87e-c467-4aa9-9f6a-ea4f8ald5d16"/&gt;
                &lt!-- PractitionerRole code --&gt;
                &lt;code code="251513" codeSystem="2.16.840.1.113883.13.62"
                      displayName="Retail Pharmacist"/&gt;
                &lt!-- Practitioner address --&gt;
                &lt;addr use="WP"&gt;50034 Queen St, Coburg, VIC 3058&lt;/addr&gt;
                &lt!-- Practitioner telecom --&gt;
                &lt;telecom use="WP" value="fax:0370102020"/&gt;
                &lt!-- PractitionerRole practitioner --&gt;
                &lt;assignedPerson&gt;
                    &lt!-- assignedPerson (Practitioner with Mandatory Identifier) templateId --&gt;
                    &lt;templateId root="1.2.36.1.2001.1001.102.101.100040"/&gt;
                    &lt!-- Practitioner name --&gt;
                    &lt;name use="I"&gt;
                        &lt;prefix&gt;Mr.&lt;/prefix&gt;
                        &lt;given&gt;Ned&lt;/given&gt;
                        &lt;family&gt;DEACON&lt;/family&gt;
                    &lt;/name&gt;
                    &lt!-- PractitionerRole identifier / Practitioner identifier --&gt;
                    &lt;ext:asEntityIdentifier classCode="IDENT"&gt;
                        &lt;ext:id root="1.2.36.1.2001.1003.0.8003616566708106"
                            assigningAuthorityName="HPI-I"/&gt;
                        &lt;ext:assigningGeographicArea classCode="PLC"&gt;
                            &lt;ext:name&gt;National Identifier&lt;/ext:name&gt;
                            &lt;ext:assigningGeographicArea&gt;
                        &lt;/ext:assigningGeographicArea&gt;
                    &lt;/ext:asEntityIdentifier&gt;
                    &lt!-- PractitionerRole identifier --&gt;
                    &lt;ext:asEntityIdentifier classCode="IDENT"&gt;
                        &lt;ext:id root="1.2.36.174030967.0.2" extension="5544887B"
                            assigningAuthorityName="Medicare Provider Number"/&gt;
                        &lt;ext:code code="PRN"
                                codeSystem="2.16.840.1.113883.12.203"/&gt;
                        &lt;ext:assigningGeographicArea classCode="PLC"&gt;
                            &lt;ext:name&gt;National Identifier&lt;/ext:name&gt;
                        &lt;/ext:assigningGeographicArea&gt;
                    &lt;/ext:asEntityIdentifier&gt;
                &lt;/assignedPerson&gt;
            &lt;/author&gt;
        &lt;/act&gt;
    &lt;/entry&gt;
&lt;/component&gt;</pre>
```

```
</ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</assignedPerson>
</assignedAuthor>
</author>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
<!-- MedicationStatement taken="y" -->
<substanceAdministration classCode="SBADM" moodCode="EVN">
<!-- substanceAdministration (Medicine Item Statement) templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100066"/>
<id root="dcde2dd2-a577-4bca-8951-727666c9bcaa"/>
<!-- MedicationStatement status -->
<statusCode code="completed"/>
<!-- MedicationStatement medication[x] -->
<consumable>
<manufacturedProduct>
<!-- manufacturedProduct (Base Medication) templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100068"/>
<manufacturedMaterial determinerCode="KIND">
<!-- Medication code -->
<code code="119411000036106"
codeSystem="2.16.840.1.113883.6.96"
displayName="Aldara 5% cream"
<originalText>Aldara 5% cream</originalText>
</code>
</manufacturedMaterial>
</manufacturedProduct>
</consumable>
<!-- List entry flag -->
<entryRelationship typeCode="SUBJ" inversionInd="true">
<observation classCode="OBS" moodCode="EVN">
<code code="288533004"
codeSystem="2.16.840.1.113883.6.96"
displayName="Change values"/>
<!-- List entry change-description-->
<text>Completed 8-week course</text>
<value code="ceased"
codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
displayName="Ceased" xsi:type="CD"/>
</observation>
</entryRelationship>
</substanceAdministration>
</entryRelationship>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
<!-- MedicationStatement taken="y" -->
<substanceAdministration classCode="SBADM" moodCode="EVN">
<!-- substanceAdministration (Medicine Item Statement) templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100066"/>
<id root="0039beb1-b216-4a7c-bd48-c9a196887b8e"/>
<!-- MedicationStatement status -->
<statusCode code="completed"/>
<!-- MedicationStatement medication[x] -->
<consumable>
<manufacturedProduct>
<!-- manufacturedProduct (Base Medication) templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100068"/>
<manufacturedMaterial determinerCode="KIND">
<!-- Medication code -->
<code code="22717011000036101"
codeSystem="2.16.840.1.113883.6.96"
displayName="chloramphenicol 1% eye ointment"
<originalText>Chloramphenicol 1% eye
ointment</originalText>
</code>
</manufacturedMaterial>
</manufacturedProduct>
</consumable>
<!-- List entry flag -->
<entryRelationship typeCode="SUBJ" inversionInd="true">
<observation classCode="OBS" moodCode="EVN">
<code code="288533004"
codeSystem="2.16.840.1.113883.6.96"
displayName="Change values"/>
<!-- List entry change-description -->
<text>Stopped due to burning sensation in the
eye.</text>
<value code="ceased"
codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
displayName="Ceased" xsi:type="CD"/>
</observation>
</entryRelationship>
</substanceAdministration>
</entryRelationship>
<!-- List packed-in-daa -->
<entryRelationship typeCode="COMP">
<observation classCode="OBS" moodCode="EVN">
<code code="1469401000168104"
codeSystem="2.16.840.1.113883.6.96"
displayName="Medicines packed in dose administration aid indicator"/>
<value xsi:type="CD" code="1469421000168108"
codeSystem="2.16.840.1.113883.6.96"
displayName="No medicines packed in dose administration aid">
<originalText>No medicines packed in dose administration
aid</originalText>
</value>
</observation>
</entryRelationship>
```

```
</act>
</entry>
</section>
</component>
</structuredBody>
</component>
</ClinicalDocument>
```

DRAFT

## B.3 Point-to-Point Pharmacist Shared Medicines List

This informative appendix provides an example instance that conforms to the requirements of this implementation guide.

### Example B.3. Point-to-Point Pharmacist Shared Medicines List

```
<!-- This example is illustrative only. This fragment cannot be treated as clinically valid.  
While every effort has been taken to ensure that the examples are consistent with the message specification, where  
there are conflicts with the written message specification or schema, the specification or schema will take precedence. -->  
<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
    xsi:schemaLocation="urn:hl7-org:v3 ../../library/schema_au_dev/CDA-AU-V1_0.xsd"  
    xmlns="urn:hl7-org:v3" xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"  
    classCode="DOCCLIN" moodCode="EVN">  
    <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>  
    <!-- ClinicalDocument templateId -->  
    <templateId root="1.2.36.1.2001.1001.102.101.100033"/>  
    <!-- ClinicalDocument (Shared Medicines List Authored by Practitioner) templateId -->  
    <templateId root="1.2.36.1.2001.1001.102.101.100065"/>  
    <!-- CDA Rendering Specification templateId -->  
    <templateId root="1.2.36.1.2001.1001.100.149"/>  
    <id root="a25c2e86-62ee-49b5-9c3e-7daf545a2fdf"/>  
    <!-- Composition type-->  
    <code code="56445-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"  
        displayName="Medication summary"/>  
    <!-- Composition title-->  
    <title>Shared Medicines List</title>  
    <effectiveTime value="20190812"/>  
    <confidentialityCode nullFlavor="NA"/>  
    <languageCode code="en-AU"/>  
    <setId root="2bd59445-4773-4a75-bee8-c84a67f1e5cd"/>  
    <versionNumber value="1"/>  
    <!-- Composition status-->  
    <ext:completionCode code="F" codeSystem="1.2.36.1.2001.1001.101.104.20104"  
        codeSystemName="NCTIS Document Status Values" displayName="Final"/>  
    <!-- Composition subject -->  
    <recordTarget>  
        <!-- recordTarget (Patient with Mandatory Identifier) templateId -->  
        <templateId root="1.2.36.1.2001.1001.102.101.100004"/>  
        <patientRole>  
            <id root="c7445b14-a31f-4626-9681-dc6d97481d8e"/>  
            <!-- Patient telecom -->  
            <telecom use="MC" value="tel:0491 570 006"/>  
            <!-- Patient telecom -->  
            <telecom use="H" value="tel:(08) 5550 1234"/>  
            <patient>  
                <!-- Patient name -->  
                <name use="L">  
                    <prefix>Mrs</prefix>  
                    <given>Bonny</given>  
                    <family>Goodwin</family>  
                </name>  
                <!-- Patient gender -->  
                <administrativeGenderCode code="female" codeSystem="2.16.840.1.113883.4.642.4.2"  
                    codeSystemName="AdministrativeGender" displayName="Female"/>  
                <!-- Patient maritalStatus-->  
                <maritalStatusCode code="M" codeSystem="2.16.840.1.113883.5.2"  
                    codeSystemName="v3 Code System MaritalStatus" displayName="Married">  
                    <originalText>Married</originalText>  
                </maritalStatusCode>  
                <!-- Patient identifier -->  
                <ext:asEntityIdentifier classCode="IDENT">  
                    <ext:id assigningAuthorityName="IHI"  
                        root="1.2.36.1.2001.1003.0.8003608000228445"/>  
                    <ext:assigningGeographicArea classCode="PLC">  
                        <ext:name>National Identifier</ext:name>  
                    </ext:assigningGeographicArea>  
                </ext:asEntityIdentifier>  
                <!-- Patient identifier -->  
                <ext:asEntityIdentifier classCode="IDENT">  
                    <ext:id assigningAuthorityName="Medicare Card Number" root="1.2.36.1.5001.1.0.7"  
                        extensions="3951032981"/>  
                    <ext:code code="MC" codeSystem="2.16.840.1.113883.12.203"  
                        codeSystemName="Identifier Type (HL7)"  
                        displayName="Patient's Medicare number"/>  
                </ext:asEntityIdentifier>  
            </patient>  
        </patientRole>  
    </recordTarget>  
    <!-- Composition composition-author-role and Composition author -->  
    <author>  
        <!-- author (PractitionerRole with Practitioner with Mandatory Identifier) templateId -->  
        <templateId root="1.2.36.1.2001.1001.102.101.100006"/>  
        <!-- Composition date -->  
        <time value="20190812"/>  
        <assignedAuthor>  
            <id root="cd3f53e1-c922-446b-9ef6-ee43740b653e"/>  
            <!-- PractitionerRole code -->  
            <code code="46255001" codeSystem="2.16.840.1.113883.6.96" displayName="Pharmacist"/>  
            <!-- PractitionerRole practitioner -->  
            <assignedPerson>  
                <!-- assignedPerson (Practitioner with Mandatory Identifier) templateId -->
```

```
<templateId root="1.2.36.1.2001.1001.102.101.100040"/>
<!-- PractitionerRole identifier / Practitioner identifier -->
<ext:asEntityIdentifier classCode="IDENT">
  <ext:id root="1.2.36.1.2001.1003.0.8003619900041630"
    assigningAuthorityName="HPI-I"/>
  <ext:assigningGeographicArea classCode="PLC">
    <ext:name>National Identifier</ext:name>
  </ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</assignedPerson>
</assignedAuthor>
</author>
<!-- Composition custodian -->
<custodian>
  <!-- custodian (Organization with Mandatory Identifier) templateId-->
  <templateId root="1.2.36.1.2001.1001.102.101.100002"/>
  <assignedCustodian>
    <representedCustodianOrganization>
      <id root="0c267071-8a7b-4cba-a3cc-9b571cc09ab3"/>
      <!-- Organization name -->
      <name>Test Hospital</name>
      <!-- Organization telecom -->
      <telecom use="WP" value="tel:(03) 7010 3248"/>
      <!-- Organization identifier -->
      <ext:asEntityIdentifier classCode="IDENT">
        <ext:id assigningAuthorityName="HPI-O"
          root="1.2.36.1.2001.1003.0.800362323366573"/>
        <ext:assigningGeographicArea classCode="PLC">
          <ext:name>National Identifier</ext:name>
        </ext:assigningGeographicArea>
      </ext:asEntityIdentifier>
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>
<!-- Composition attester (Legal Attester) -->
<legalAuthenticator>
  <templateId root="1.2.36.1.2001.1001.102.101.100012"/>
  <time value="20190902100015+1000"/>
  <signatureCode code="S"/>
  <assignedEntity>
    <id root="cd3f53e1-c922-446b-9ef6-ee43740b653e"/>
    <assignedPerson>
      <ext:asEntityIdentifier classCode="IDENT">
        <ext:id root="1.2.36.1.2001.1003.0.8003619900041630"
          assigningAuthorityName="HPI-I"/>
        <ext:assigningGeographicArea classCode="PLC">
          <ext:name>National Identifier</ext:name>
        </ext:assigningGeographicArea>
      </ext:asEntityIdentifier>
    </assignedPerson>
  </assignedEntity>
</legalAuthenticator>

<!-- Composition encounter-->
<componentOf>
  <encompassingEncounter>
    <!-- encompassingEncounter (Summary of an Encounter for an Event) templateId-->
    <templateId root="1.2.36.1.2001.1001.102.101.100064"/>
    <id root="7c67f842-1a80-4463-8953-a954373ca7cb"/>
    <!-- Encounter period-->
    <effectiveTime xsi:type="IVL_TS">
      <low value="20190812090000+1000"/>
      <high value="20190812103000+1000"/>
    </effectiveTime>
  </encompassingEncounter>
</componentOf>

<component>
  <structuredBody>
    <!-- Composition section (Allergies) -->
    <component>
      <section>
        <!-- section (Allergies) templateId-->
        <templateId root="1.2.36.1.2001.1001.102.101.100069"/>
        <!-- section code-->
        <code code="48765-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
          displayName="Allergies &gt; or adverse reactions"/>
        <!-- section title-->
        <title>Allergies and Intolerances</title>
        <!-- section text-->
        <text mediaType="text/x-hl7-text+xml">
          <paragraph>Patient not asked</paragraph>
        </text>
        <!--section emptyReason -->
        <entry>
          <observation classCode="OBS" moodCode="EVN">
            <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"
              displayName="Assertion"/>
            <value xsi:type="CD" code="notasked"
              codeSystem="2.16.840.1.113883.4.642.4.1106"
              codeSystemName="ListEmptyReasons" displayName="Not Asked">
              <originalText>Patient not asked</originalText>
            </value>
          </observation>
        </entry>
      </section>
    </component>
  </structuredBody>
</component>
```

```
<component>
    <!-- Composition section (Medicines List)-->
    <section>
        <!-- section (Medicines List) templateId-->
        <templateId root="1.2.36.1.2001.1001.102.101.100077"/>
        <!-- section code -->
        <code code="101.32009" codeSystem="1.2.36.1.2001.1001.101"
            codeSystemName="NCTIS Data Components" displayName="Current Medicines"/>
        <!-- section title -->
        <title>Current Medicines</title>
        <!-- section text -->
        <text mediaType="text/x-hl7-text+xml">
            <paragraph>Medicines review: 10:30AM 12-08-2019</paragraph>
            <table border="1">
                <caption>Current Medicines</caption>
                <thead>
                    <tr>
                        <th>Medicine</th>
                        <th>Medicine brand name</th>
                        <th>Directions</th>
                        <th>Purpose</th>
                        <th>Status</th>
                        <th>Status reason</th>
                    </tr>
                </thead>
                <tbody>
                    <tr ID="med1reference">
                        <td></td>
                        <td>Tritace</td>
                        <td>Take one tablet in the morning daily.</td>
                        <td>To reduce high blood pressure; treat heart failure after a
                            heart attack; prevent progression of kidney failure; reduce
                            the risk of heart attack, stroke and stenting</td>
                        <td>Unchanged</td>
                        <td></td>
                    </tr>
                    <tr ID="med2reference">
                        <td>docusate sodium 50 mg + sennoside B 8 mg tablet</td>
                        <td>Co-Senna</td>
                        <td>Take two tablets twice a day.</td>
                        <td>Laxative for constipation, works by softening the stools and
                            also assists by stimulating the gut to achieve bowel
                            movements.</td>
                        <td>New</td>
                        <td>Laxative for constipation.</td>
                    </tr>
                    <tr ID="med3reference">
                        <td>Oxycodone</td>
                        <td>Endone</td>
                        <td>Take one to two tablets every four hours when required.</td>
                        <td>For relief of moderate to severe pain.</td>
                        <td>Amended</td>
                        <td>Dose increased</td>
                    </tr>
                </tbody>
            </table>
        </text>
        <!-- section entry -->
        <entry typeCode="DRIV">
            <act classCode="ACT" moodCode="EVN">
                <!-- act (List of Medicine Items with Change Information Authored by Practitioner) templateId -->
                <templateId root="1.2.36.1.2001.1001.102.101.100067"/>
                <!-- List code -->
                <code code="101.32009" codeSystem="1.2.36.1.2001.1001.101"
                    codeSystemName="NCTIS Data Components"
                    displayName="Current Medicines"/>
                <!-- List status -->
                <statusCode code="active"/>
                <!-- List date -->
                <effectiveTime value="20190812"/>
                <!-- List author-role / List source -->
                <author>
                    <!-- author (PractitionerRole with Practitioner with Mandatory Identifier) templateId-->
                    <templateId root="1.2.36.1.2001.1001.102.101.100006"/>
                    <!-- List date -->
                    <time value="20190812"/>
                    <assignedAuthor>
                        <id root="cd3f53e1-c922-446b-9ef6-ee43740b653e"/>
                        <!-- PractitionerRole code -->
                        <code code="46255001" codeSystem="2.16.840.1.113883.6.96"
                            displayName="Pharmacist"/>
                        <!-- PractitionerRole practitioner -->
                        <assignedPerson>
                            <!-- assignedPerson (Practitioner with Mandatory Identifier) templateId -->
                            <templateId root="1.2.36.1.2001.1001.102.101.100040"/>
                            <!-- PractitionerRole identifier / Practitioner identifier -->
                            <ext:asEntityIdentifier classCode="IDENT">
                                <ext:id root="1.2.36.1.2001.1003.0.8003619900041630"
                                    assigningAuthorityName="HPI-I"/>
                                <ext:assigningGeographicArea classCode="PLC">
                                    <ext:name>National Identifier</ext:name>
                                </ext:assigningGeographicArea>
                            </ext:asEntityIdentifier>
                        </assignedPerson>
                    </assignedAuthor>
                </author>
                <!-- List entry item -->
                <entryRelationship typeCode="COMP">
                    <!-- MedicationStatement taken="y" -->
                </entryRelationship>
            </act>
        </entry>
    </section>

```

```
<substanceAdministration classCode="SBADM" moodCode="EVN">
  <!-- substanceAdministration (Medicine Item Statement) templateId -->
  <templateId root="1.2.36.1.2001.1001.102.101.100066"/>
  <!-- MedicationStatement dosage -->
  <text>
    <reference value="#med1reference"/>
  </text>
  <!-- MedicationStatement status -->
  <statusCode code="active"/>
  <!-- MedicationStatement medication[x] -->
  <consumable>
    <manufacturedProduct>
      <!-- manufacturedProduct (Base Medication) templateId -->
      <templateId root="1.2.36.1.2001.1001.102.101.100068"/>
      <manufacturedMaterial determinerCode="KIND">
        <code>
          <originalText>Tritace</originalText>
        </code>
      </manufacturedMaterial>
    </manufacturedProduct>
  </consumable>
  <!-- Medication medication-brand-name -->
  <entryRelationship typeCode="COMP">
    <act classCode="ACT" moodCode="EVN">
      <code code="1402141000168102"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Branded product name"/>
      <text xsi:type="ST">Tritace</text>
    </act>
  </entryRelationship>
  <!-- MedicationStatement reasonCode -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <code code="103.10141"
        codeSystem="1.2.36.1.2001.1001.101"
        codeSystemName="NCTIS Data Components"
        displayName="Clinical Indication"/>
      <value xsi:type="CD">
        <originalText>To reduce high blood pressure; treat
          heart failure after a heart attack; prevent
          progression of kidney failure; reduce the risk of
          heart attack, stroke and stenting</originalText>
      </value>
    </observation>
  </entryRelationship>
  <!-- List entry flag -->
  <entryRelationship typeCode="SUBJ" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
      <code code="288533004"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Change values"/>
      <value code="nochange"
        codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
        codeSystemName="MedicineItemChange"
        displayName="Unchanged" xsi:type="CD"/>
    </observation>
  </entryRelationship>
  </substanceAdministration>
</entryRelationship>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
  <!-- MedicationStatement taken="y" -->
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <!-- substanceAdministration (Medicine Item Statement) templateId -->
    <templateId root="1.2.36.1.2001.1001.102.101.100066"/>
    <!-- MedicationStatement dosage -->
    <text>
      <reference value="#med2reference"/>
    </text>
    <!-- MedicationStatement status -->
    <statusCode code="active"/>
    <!-- MedicationStatement medication[x] -->
    <consumable>
      <manufacturedProduct>
        <!-- manufacturedProduct (Base Medication) templateId -->
        <templateId root="1.2.36.1.2001.1001.102.101.100068"/>
        <manufacturedMaterial determinerCode="KIND">
          <!-- Medication code -->
          <code code="33690011000036100"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="docusate sodium 50 mg + sennoside B 8 mg tablet">
            <originalText>docusate sodium 50 mg + sennoside B
              8 mg tablet</originalText>
          </code>
        </manufacturedMaterial>
      </manufacturedProduct>
    </consumable>
    <!-- Medication medication-brand-name -->
    <entryRelationship typeCode="COMP">
      <act classCode="ACT" moodCode="EVN">
        <code code="1402141000168102"
          codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED CT"
          displayName="Branded product name"/>
        <text xsi:type="ST">Co-Senna</text>
      </act>
    </entryRelationship>
  </substanceAdministration>
</entryRelationship>
```

```

</entryRelationship>
<!-- Medication medication-generic-name -->
<entryRelationship typeCode="COMP">
    <act classCode="ACT" moodCode="EVN">
        <code code="1402131000168106"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="Generic product name"/>
        <text xsi:type="ST">docusate sodium 50 mg + sennoside B
8 mg tablet</text>
    </act>
</entryRelationship>
<!-- MedicationStatement reasonCode -->
<entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
        <code code="103.10141"
            codeSystem="1.2.36.1.2001.1001.101"
            codeSystemName="NCTIS Data Components"
            displayName="Clinical Indication"/>
        <value xsi:type="CD" code="14760008"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="Constipation">
            <originalText>Laxative for constipation, works by
softening the stools and also assists by
stimulating the gut to achieve bowel
movements.</originalText>
        </value>
    </observation>
</entryRelationship>
<!-- List entry flag -->
<entryRelationship typeCode="SUBJ" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
        <code code="288533004"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="Change values"/>
        <!--List entry change-description -->
        <text>Laxative for constipation.</text>
        <value code="new"
            codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
            codeSystemName="MedicineItemChange"
            displayName="New" xsi:type="CD"/>
    </observation>
</entryRelationship>
</substanceAdministration>
</entryRelationship>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
    <!-- MedicationStatement taken="y" -->
    <substanceAdministration classCode="SBADM" moodCode="EVN">
        <!-- substanceAdministration (Medicine Item Statement) templateId -->
        <templateId root="1.2.36.1.2001.1001.102.101.100066"/>
        <!-- MedicationStatement dosage -->
        <text>
            <reference value="#med3reference"/>
        </text>
        <!-- MedicationStatement status -->
        <statusCode code="active"/>
        <!-- MedicationStatement medication[x] -->
        <consumable>
            <manufacturedProduct>
                <!-- manufacturedProduct (Base Medication) templateId -->
                <templateId root="1.2.36.1.2001.1001.102.101.100068"/>
                <manufacturedMaterial determinerCode="KIND">
                    <!-- Medication code -->
                    <code code="5195K"
                        codeSystem="1.2.36.1.2001.1004.200.10009"
                        codeSystemName="Australian Pharmaceutical Benefits Scheme Schedule Item"
                        displayName="oxycodone hydrochloride 5 mg tablet, 20">
                        <originalText>Endone Oxycodone</originalText>
                        <translation code="2622B"
                            codeSystem="1.2.36.1.2001.1004.200.10009"
                            codeSystemName="Australian Pharmaceutical Benefits Scheme Schedule Item"
                            displayName="OXYCODONE"/>
                    </code>
                </manufacturedMaterial>
            </manufacturedProduct>
        </consumable>
        <!-- Medication medication-brand-name -->
        <entryRelationship typeCode="COMP">
            <act classCode="ACT" moodCode="EVN">
                <code code="1402141000168102"
                    codeSystem="2.16.840.1.113883.6.96"
                    codeSystemName="SNOMED CT"
                    displayName="Branded product name"/>
                <text xsi:type="ST">Endone</text>
            </act>
        </entryRelationship>
        <!-- Medication medication-generic-name -->
        <entryRelationship typeCode="COMP">
            <act classCode="ACT" moodCode="EVN">
                <code code="1402131000168106"
                    codeSystem="2.16.840.1.113883.6.96"
                    codeSystemName="SNOMED CT"
                    displayName="Generic product name"/>
                <text xsi:type="ST">Oxycodone</text>
            </act>
        </entryRelationship>

```

```
<!-- MedicationStatement reasonCode -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <code code="103.10141"
      codeSystem="1.2.36.1.2001.1001.101"
      codeSystemName="NCTIS Data Components"
      displayName="Clinical Indication"/>
    <value xsi:type="CD" code="428346000"
      codeSystem="2.16.840.1.113883.6.96"
      codeSystemName="SNOMED CT"
      displayName="Pain relief by medication">
      <originalText>For relief of moderate to severe
      pain</originalText>
    </value>
  </observation>
</entryRelationship>
<!-- List entry flag -->
<entryRelationship typeCode="SUBJ" inversionInd="true">
  <observation classCode="OBS" moodCode="EVN">
    <code code="288533004"
      codeSystem="2.16.840.1.113883.6.96"
      codeSystemName="SNOMED CT"
      displayName="Change values"/>
    <!-- List entry change-description -->
    <text>Dose increased</text>
    <value code="amended"
      codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
      codeSystemName="MedicineItemChange"
      displayName="Amended" xsi:type="CD"/>
  </observation>
</entryRelationship>
</substanceAdministration>
</entryRelationship>
<!-- List encounter-->
<entryRelationship typeCode="COMP">
  <encounter classCode="ENC" moodCode="EVN">
    <!-- encounter (Summary of an Encounter) templateId-->
    <templateId root="1.2.36.1.2001.1001.102.101.100062"/>
    <id root="7c67fb42-1a80-4463-8953-a954373ca7cb"/>
    <!--Encounter status-->
    <statusCode code="completed"/>
    <!--Encounter period-->
    <effectiveTime xsi:type="IVL_TS">
      <low value="20190812090000+1000"/>
      <high value="20190812103000+1000"/>
    </effectiveTime>
    <!-- Encounter type -->
    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <code code="103.17018"
          codeSystem="1.2.36.1.2001.1001.101"
          codeSystemName="NCTIS Data Components"
          displayName="Category"/>
        <value xsi:type="CD" code="182836005"
          codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED CT"
          displayName="Review of medication">
          <originalText>Medicines review</originalText>
        </value>
      </observation>
    </entryRelationship>
  </encounter>
</entryRelationship>
</act>
</entry>
</section>
</component>
</structuredBody>
</component>
</ClinicalDocument>
```

## B.4 Ceased Medicines List

This informative appendix provides an example instance that conforms to the requirements of this implementation guide.

### Example B.4. Ceased Medicines List

```
<!-- This example is illustrative only. This fragment cannot be treated as clinically valid.  
While every effort has been taken to ensure that the examples are consistent with the message specification, where  
there are conflicts with the written message specification or schema, the specification or schema will take precedence. -->  
  
<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:schemaLocation="urn:hl7-org:v3 ../../library/schema_au_dev/CDA-AU-V1_0.xsd"  
xmlns="urn:hl7-org:v3" xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0">  
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>  
  <!-- ClinicalDocument templateId -->  
  <templateId root="1.2.36.1.2001.1001.102.101.100033"/>  
  <!--ClinicalDocument (Shared Medicines List Authored by Practitioner) templateId -->  
  <templateId root="1.2.36.1.2001.1001.102.101.100065"/>  
  <!--CDA Rendering Specification templateId-->  
  <templateId root="1.2.36.1.2001.1001.100.149"/>  
  <id root="2.25.22689776786320758428768491731646875697"/>  
  <!-- Composition type-->  
  <code code="56445-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"  
        displayName="Medication summary"/>  
  <!-- Composition title-->  
  <title>Ceased medicines list</title>  
  <effectiveTime value="20190902100015+1000"/>  
  <confidentialityCode nullFlavor="NA"/>  
  <languageCode code="en"/>  
  <setId root="7ba2ddcd-9af0-4396-82cb-0ad19cbb9b32"/>  
  <versionNumber value="1"/>  
  <!-- Composition status-->  
  <ext:completionCode code="I" codeSystem="1.2.36.1.2001.1001.102.101.104.20104"  
    codeSystemName="NCTIS Document Status Values" displayName="Interim"/>  
  <!-- Composition subject -->  
  <recordTarget>  
    <!-- recordTarget (Patient with Mandatory Identifier) templateId-->  
    <templateId root="1.2.36.1.2001.1001.102.101.100004"/>  
    <patientRole>  
      <id root="be81d9f-144b-4064-9bbe-3ae2a142170e"/>  
      <!--Patient address-->  
      <addr>  
        <streetAddressLine>1 Caboolture Street</streetAddressLine>  
        <city>Caboolture</city>  
        <state>QLD</state>  
        <postalCode>4510</postalCode>  
        <country>AU</country>  
      </addr>  
      <patient>  
        <!-- Patient name -->  
        <name>Bert Gainey</name>  
        <!-- Required CDA Schema element when a sending system is sending a Patient without a gender element -->  
        <administrativeGenderCode nullFlavor="NI"/>  
        <!-- Patient identifier -->  
        <ext:asEntityIdentifier classCode="IDENT">  
          <ext:id root="1.2.36.1.2001.1005.29.8003621566684455" extension="542181"  
            assigningAuthorityName="Croydon GP Centre"/>  
          <ext:code code="MR" codeSystem="2.16.840.1.113883.12.203"  
            codeSystemName="Identifier Type (HL7)"/>  
        </ext:asEntityIdentifier>  
      </patient>  
    </patientRole>  
  </recordTarget>  
  <!-- Composition composition-author-role and Composition author -->  
  <author>  
    <!-- author (PractitionerRole with Practitioner with Mandatory Identifier) templateId-->  
    <templateId root="1.2.36.1.2001.1001.102.101.100006"/>  
    <!-- Composition date -->  
    <time value="20190902100015+1000"/>  
    <assignedAuthor>  
      <id root="5ae15755-07d5-42b7-ab7d-266d64391fd2"/>  
      <!-- PractitionerRole code -->  
      <code>  
        <originalText>General Practitioner</originalText>  
      </code>  
      <!-- PractitionerRole practitioner -->  
      <assignedPerson>  
        <!-- assignedPerson (Practitioner with Mandatory Identifier) templateId -->  
        <templateId root="1.2.36.1.2001.1001.102.101.100040"/>  
        <!-- Practitioner name -->  
        <name>  
          <given>North</given>  
          <family>Black</family>  
          <suffix>M.D.</suffix>  
        </name>  
        <!-- PractitionerRole identifier / Practitioner identifier -->  
        <ext:asEntityIdentifier classCode="IDENT">  
          <ext:id root="1.2.36.1.2001.1005.70.51824994455" extension="north27"  
            assigningAuthorityName="Ascot Vale Family Medical Centre"/>  
          <ext:code code="EI" codeSystem="2.16.840.1.113883.12.203"/>  
        </ext:asEntityIdentifier>  
      </assignedPerson>  
    </assignedAuthor>  
  </author>
```

```
</assignedAuthor>
</author>
<!-- Composition custodian -->
<custodian>
    <!-- custodian (Organization with Mandatory Identifier) templateId-->
    <templateId root="1.2.36.1.2001.1001.102.101.100002"/>
    <assignedCustodian>
        <representedCustodianOrganization>
            <id root="28733845-6b31-41c6-b43a-b8fc708375da"/>
            <!-- Organization name-->
            <name>Ascot Vale Family Medical Centre</name>
            <!-- Organization identifier -->
            <ext:asEntityIdentifier classCode="IDENT">
                <ext:id assigningAuthorityName="ABN" root="1.2.36.51824994455"/>
                <ext:code code="XX" codeSystem="2.16.840.1.113883.12.203"/>
                <ext:assigningGeographicArea classCode="PLC">
                    <ext:name>National Identifier</ext:name>
                </ext:assigningGeographicArea>
            </ext:asEntityIdentifier>
        </representedCustodianOrganization>
    </assignedCustodian>
</custodian>
<!-- Composition attester (Legal Attester) -->
<legalAuthenticator>
    <templateId root="1.2.36.1.2001.1001.102.101.100012"/>
    <time value="20190902100015+1000"/>
    <signatureCode code="S"/>
    <assignedEntity>
        <id root="5ae15755-07d5-42b7-ab7d-266d64391fd2"/>
        <assignedPerson>
            <!-- PractitionerRole identifier / Practitioner identifier -->
            <ext:asEntityIdentifier classCode="IDENT">
                <ext:id root="1.2.36.1.2001.1005.70.51824994455" extension="north27"
                    assigningAuthorityName="Ascot Vale Family Medical Centre"/>
                <ext:code code="EI" codeSystem="2.16.840.1.113883.12.203"/>
            </ext:asEntityIdentifier>
        </assignedPerson>
    </assignedEntity>
</legalAuthenticator>
<component>
    <structuredBody>
        <component>
            <!-- Composition section (Medicines List)-->
            <section>
                <!-- section (Medicines List) templateId-->
                <templateId root="1.2.36.1.2001.1001.102.101.100077"/>
                <!-- section code -->
                <code code="101.32027" codeSystem="1.2.36.1.2001.1001.101"
                    codeSystemName="NCTIS Data Components" displayName="Ceased Medicines"/>
                <!-- section title -->
                <title>Ceased Medicines</title>
                <!-- section text -->
                <text mediaType="text/x-hl7-text+xml">
                    <table border="1">
                        <thead>
                            <tr>
                                <th>Medicine name</th>
                                <th>Other names</th>
                                <th>Number to take/Directions</th>
                                <th>Purpose</th>
                                <th>Special instructions</th>
                            </tr>
                        </thead>
                        <tbody>
                            <tr>
                                <td>RAMIPRIL(TAB) 2.5 mg</td>
                                <td>Tritace</td>
                                <td>Take one in the morning</td>
                                <td>To reduce high blood pressure; treat heart failure after a
                                    heart attack; prevent progression of kidney failure; reduce
                                    the risk of heart attack; stroke and stenting</td>
                                <td>If you feel light-headed, dizzy or faint, get up slowly when
                                    getting our of bed. Make sure you drink enough water during
                                    excercise and hot weather when you are taking this medicine,
                                    especially if you sweat a lot. If you have excessive
                                    vomitting and or diarrhoea while taking this medicine tell
                                    your doctor. May cause headache or unusual taste. Do not take
                                    potassium supplements while you are taking this medicine
                                    unless your doctor tells you to. If you develop signs of
                                    swelling of the lips or tongue, a dry cough or a rash see
                                    your doctor.</td>
                            </tr>
                            <tr>
                                <td>ATORVASTATIN(TAB) 80 mg</td>
                                <td>Lipitor</td>
                                <td>Take 1 in the evening</td>
                                <td>To lower cholestrol levels in the blood</td>
                                <td>Seek medical advice promptly if your urine is dark (brown)
                                    or if you have any unexplained muscle pain, tenderness or
                                    weakness. Grapefruit juice should be avoided as it may
                                    increase the amount of this medicine in your bloodstream and
                                    could increase the chances of side effects occuring.</td>
                            </tr>
                            <tr>
                                <td>DOCUSATE SENNA(TAB) 50 mg</td>
                                <td/>
                                <td>Take two tablets in the morning and in the evening</td>
                                <td>Laxative for constipation, works by softening the stools and
                                    also assists by stimulating the gut to achieve bowel
                                </td>
                            </tr>
                        </tbody>
                    </table>
                </text>
            </section>
        </component>
    </structuredBody>
</component>
```

```
movements.</td>
<td>Take with a glass of fluid. May take 2-3 days for maximum
effect. Do not take with laxatives containing liquid
paraffin. Abdominal discomfort, nausea and rash may
occur.</td>
</tr>
</tbody>
</table>
</text>
<!-- section entry -->
<entry>
<act classCode="ACT" moodCode="EVN">
<!-- act (List of Medicine Items with Change Information Authored by Practitioner) templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100067"/>
<!-- List code -->
<code code="101.32027" codeSystem="1.2.36.1.2001.1001.101"
codeSystemName="NCTIS Data Components"
displayName="Ceased Medicines"/>
<!-- List status -->
<statusCode code="active"/>
<!-- List date -->
<effectiveTime value="20190902100015+1000"/>
<!-- List author-role / List source -->
<author>
<!-- author (PractitionerRole with Practitioner with Mandatory Identifier) templateId-->
<templateId root="1.2.36.1.2001.1001.102.101.100006"/>
<!-- List date -->
<time value="20190902100015+1000"/>
<assignedAuthor>
<id root="5ae15755-07d5-42b7-ab7d-266d64391fd2"/>
<!-- PractitionerRole code -->
<code>
<originalText>General Practitioner</originalText>
</code>
<!-- PractitionerRole practitioner -->
<assignedPerson>
<!-- assignedPerson (Practitioner with Mandatory Identifier) templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100040"
/>
<!-- Practitioner name -->
<name>
<given>North</given>
<family>Black</family>
<suffix>M.D.</suffix>
</name>
<!-- PractitionerRole identifier / Practitioner identifier -->
<ext:asEntityIdentifier classCode="IDENT">
<ext:id root="1.2.36.1.2001.1005.70.51824994455"
extension="north27"
assigningAuthorityName="Ascot Vale Family Medical Centre"/>
<ext:code code="EI"
codeSystem="2.16.840.1.113883.12.203"/>
</ext:asEntityIdentifier>
</assignedPerson>
</assignedAuthor>
</author>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
<!-- MedicationStatement taken="y" -->
<substanceAdministration classCode="SBADM" moodCode="EVN">
<!-- substanceAdministration (Medicine Item Statement) templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100066"
/>
<!-- MedicationStatement dosage -->
<text>RAMIPRIL(TAB) 2.5 mg; Tritace; Take one in the morning; To
reduce high blood pressure; treat heart failure after a
heart attack; prevent progression of kidney failure; reduce
the risk of heart attack; stroke and stenting; If you feel
light-headed, dizzy or faint, get up slowly when getting out
of bed. Make sure you drink enough water during exercise
and hot weather when you are taking this medicine,
especially if you sweat a lot. If you have excessive
vomiting and/or diarrhoea while taking this medicine tell
your doctor. May cause headache or unusual taste. Do not take
potassium supplements while you are taking this medicine
unless your doctor tells you to. If you develop signs of
swelling of the lips or tongue, a dry cough or a rash see
your doctor.</text>
<!-- MedicationStatement status -->
<statusCode code="completed"/>
<!-- MedicationStatement medication[x] -->
<consumable>
<manufacturedProduct>
<!-- manufacturedProduct (Base Medication) templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100068"
/>
<manufacturedMaterial determinerCode="KIND">
<!-- Medication code -->
<code>
<originalText>RAMIPRIL(TAB) 2.5 mg,
Tritace</originalText>
</code>
</manufacturedMaterial>
</manufacturedProduct>
</consumable>
<!-- MedicationStatement reasonCode -->
<entryRelationship typeCode="RSON">
<observation classCode="OBS" moodCode="EVN">
<code code="103.10141"
```

```
        codeSystem="1.2.36.1.2001.1001.101"
        codeSystemName="NCTIS Data Components"
        displayName="Clinical Indication"/>
    <value xsi:type="CD">
        <originalText>To reduce elevated blood pressure; for
        the prevention of angina; to treat or prevent
        heart attack; for the treatment of heart failure;
        to prevent migraines</originalText>
    </value>
</observation>
</entryRelationship>
<!-- MedicationStatement note -->
<entryRelationship typeCode="COMP">
    <act classCode="ACT" moodCode="EVN">
        <code code="103.16044"
            codeSystem="1.2.36.1.2001.1001.101"
            codeSystemName="NCTIS Data Components"
            displayName="Additional Comments"/>
        <text xsi:type="ST">if you feel light-headed, dizzy or
        faint, get up slowly when getting our of bed. Make
        sure you drink enough water during excercise and hot
        weather when you are taking this medicine,
        especially if you sweat a lot. If you have excessive
        vomitting and or diarrhoea while taking this medicine
        tell your doctor. May cause headache or unusual
        taste. Do not take potassium supplements while you
        are taking this medicine unless your doctor tells
        you to. If you develop signs of swelling of the lips
        or tongue, a dry cough or a rash see your
        doctor.</text>
    </act>
</entryRelationship>
<!-- List entry flag -->
<entryRelationship typeCode="SUBJ" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
        <code code="288533004"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="Change values"/>
        <value code="nochange"
            codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
            codeSystemName="MedicineItemChange"
            displayName="Unchanged" xsi:type="CD"/>
    </observation>
</entryRelationship>
</substanceAdministration>
</entryRelationship>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
    <!-- MedicationStatement taken="y" -->
    <substanceAdministration classCode="SBADM" moodCode="EVN">
        <!-- substanceAdministration (Medicine Item Statement) templateId -->
        <templateId root="1.2.36.1.2001.1001.102.101.100066"
        />
        <!-- MedicationStatement dosage -->
        <text>ATORVASTATIN(TAB) 80 mg; Lipitor; Take 1 in the evening;
        To lower cholestrol levels in the blood; Seek medical advice
        promptly if your urine is dark (brown) or if you have any
        unexplained muscle pain, tenderness or weakness. Grapefruit
        juice should be avoided as it may increase the amount of
        this medicine in your bloodstream and could increase the
        chances of side effects occurring.</text>
        <!-- MedicationStatement status -->
        <statusCode code="completed"/>
        <!-- MedicationStatement medication[x] -->
        <consumable>
            <manufacturedProduct>
                <!-- manufacturedProduct (Base Medication) templateId -->
                <templateId root="1.2.36.1.2001.1001.102.101.100068"
                />
                <manufacturedMaterial determinerCode="KIND">
                    <!-- Medication code -->
                    <code>
                        <originalText>ATORVASTATIN(TAB) 80 mg,
                        Lipitor</originalText>
                    </code>
                </manufacturedMaterial>
            </manufacturedProduct>
        </consumable>
        <!-- MedicationStatement reasonCode -->
        <entryRelationship typeCode="RSON">
            <observation classCode="OBS" moodCode="EVN">
                <code code="103.10141"
                    codeSystem="1.2.36.1.2001.1001.101"
                    codeSystemName="NCTIS Data Components"
                    displayName="Clinical Indication"/>
                <value xsi:type="CD">
                    <originalText>To lower cholestrol levels in the
                    blood</originalText>
                </value>
            </observation>
        </entryRelationship>
        <!-- MedicationStatement note -->
        <entryRelationship typeCode="COMP">
            <act classCode="ACT" moodCode="EVN">
                <code code="103.16044"
                    codeSystem="1.2.36.1.2001.1001.101"
                    codeSystemName="NCTIS Data Components"
                    displayName="Additional Comments"/>
```

```
<text xsi:type="ST">Seek medical advice promptly if your
urine is dark (brown) or if you have any unexplained
muscle pain, tenderness or weakness. Grapefruit
juice should be avoided as it may increase the
amount of this medicine in your bloodstream and
could increase the chances of side effects
occurring.</text>
</act>
</entryRelationship>
<!-- List entry flag -->
<entryRelationship typeCode="SUBJ" inversionInd="true">
<observation classCode="OBS" moodCode="EVN">
<code code="288533004"
      codeSystem="2.16.840.1.113883.6.96"
      codeSystemName="SNOMED CT"
      displayName="Change values"/>
<value xsi:type="CD" code="ceased"
      codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
      codeSystemName="MedicineItemChange"
      displayName="Ceased"/>
</observation>
</entryRelationship>
</substanceAdministration>
</entryRelationship>
<!-- List entry item -->
<entryRelationship typeCode="COMP">
<!-- MedicationStatement taken=y -->
<substanceAdministration classCode="SBADM" moodCode="EVN">
<!-- substanceAdministration (Medicine Item Statement) templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100066"
/>
<!-- MedicationStatement dosage -->
<text>DOCUSATE SENNA(TAB) 50 mg; Take two tablets in the morning
and in the evening; Laxative for constipation, works by
softening the stools and also assists by stimulating the gut
to achieve bowel movements.; Take with a glass of fluid. May
take 2-3 days for maximum effect. Do not take with laxatives
containing liquid paraffin. Abdominal discomfort, nausea and
rash may occur.</text>
<!-- MedicationStatement status -->
<statusCode code="completed"/>
<!-- MedicationStatement medication[x] -->
<consumable>
<manufacturedProduct>
<!-- manufacturedProduct (Base Medication) templateId -->
<templateId root="1.2.36.1.2001.1001.102.101.100068"
/>
<manufacturedMaterial determinerCode="KIND">
<!-- Medication code -->
<code>
<originalText>DOCUSATE SENNA(TAB) 50
mg</originalText>
</code>
</manufacturedMaterial>
</manufacturedProduct>
</consumable>
<!-- MedicationStatement reasonCode -->
<entryRelationship typeCode="RSON">
<observation classCode="OBS" moodCode="EVN">
<code code="103.10141"
      codeSystem="1.2.36.1.2001.1001.101"
      codeSystemName="NCTIS Data Components"
      displayName="Clinical Indication"/>
<value xsi:type="CD">
<originalText>Laxative for constipation, works by
softening the stools and also assists by
stimulating the gut to achieve bowel
movements.</originalText>
</value>
</observation>
</entryRelationship>
<!-- MedicationStatement note -->
<entryRelationship typeCode="COMP">
<act classCode="ACT" moodCode="EVN">
<code code="103.16044"
      codeSystem="1.2.36.1.2001.1001.101"
      codeSystemName="NCTIS Data Components"
      displayName="Additional Comments"/>
<text xsi:type="ST">Take with a glass of fluid. May take
2-3 days for maximum effect. Do not take with
laxatives containing liquid paraffin. Abdominal
discomfort, nausea and rash may.</text>
</act>
</entryRelationship>
<!-- List entry flag -->
<entryRelationship typeCode="SUBJ" inversionInd="true">
<observation classCode="OBS" moodCode="EVN">
<code code="288533004"
      codeSystem="2.16.840.1.113883.6.96"
      codeSystemName="SNOMED CT"/>
<value code="ceased" codeSystemName="MedicineItemChange"
      codeSystem="2.16.840.1.113883.2.3.4.1.2.6"
      displayName="Ceased" xsi:type="CD"/>
</observation>
</entryRelationship>
</substanceAdministration>
</entryRelationship>
</act>
```

```
</entry>
</section>
</component>
</structuredBody>
</component>
</ClinicalDocument>
```

DRAFT

## B.5 Summary Medicines List – No Current Medicines

This informative appendix provides an example instance that conforms to the requirements of this implementation guide.

### Example B.5. Summary Medicines List – No Current Medicines

<!-- This example is illustrative only. This fragment cannot be treated as clinically valid.  
While every effort has been taken to ensure that the examples are consistent with the message specification, where  
there are conflicts with the written message specification or schema, the specification or schema will take precedence. -->

```
<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:h17-org:v3" xmlns:ext="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"
  classCode="DOCCLIN" moodCode="EVN">
  <templateId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
  <!-- ClinicalDocument templateId -->
  <templateId root="1.2.36.1.2001.1001.102.101.100033"/>
  <!--ClinicalDocument (Shared Medicines List Authored by Practitioner) templateId -->
  <templateId root="1.2.36.1.2001.1001.102.101.100065"/>
  <!--CDA Rendering Specification templateId-->
  <templateId root="1.2.36.1.2001.1001.100.149"/>
  <id root="0f374efc-4533-4287-a7b7-2f8ee933bd4e"/>
  <!-- Composition type-->
  <code code="56445-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    displayName="Medication summary"/>
  <!-- Composition title-->
  <title>Medicines Summary for Brady Frazier</title>
  <effectiveTime value="20181012"/>
  <confidentialityCode nullFlavor="NA"/>
  <languageCode code="en"/>
  <setId root="a0deca7f-3ab5-48a5-942b-47b4c6168866"/>
  <versionNumber value="2"/>
  <!-- Composition status-->
  <ext:completionCode code="F" codeSystem="1.2.36.1.2001.1001.101.104.20104"
    codeSystemName="NCTIS Document Status Values" displayName="Final"/>
  <!-- Composition subject -->
  <recordTarget>
    <!-- recordTarget (Patient with Mandatory Identifier) templateId-->
    <templateId root="1.2.36.1.2001.1001.102.101.100004"/>
    <patientRole>
      <id root="c131e93f-0ae6-4413-9259-4582081b780e"/>
      <!-- Patient address with use=home and type=postal-->
      <addr use="H PST">
        <streetAddressLine>83 Gottfried Cnr</streetAddressLine>
        <city>COLLINGWOOD</city>
        <state>VIC</state>
        <postalCode>3066</postalCode>
      </addr>
      <patient>
        <!-- Patient name -->
        <name>
          <given>Brady</given>
          <family>FRAZIER</family>
        </name>
        <!-- Patient gender -->
        <administrativeGenderCode code="male" codeSystem="2.16.840.1.113883.4.642.4.2"
          codeSystemName="AdministrativeGender" displayName="Male"/>
        <!--Patient birthDate-->
        <birthTime value="19780101"/>
        <!-- Patient identifier -->
        <ext:asEntityIdentifier classCode="IDENT">
          <ext:id root="1.2.36.1.2001.1003.0.8003608000228437"
            assigningAuthorityName="IHI"/>
          <ext:assigningGeographicArea classCode="PLC">
            <ext:name>National Identifier</ext:name>
          </ext:assigningGeographicArea>
        </ext:asEntityIdentifier>
      </patient>
    </patientRole>
  </recordTarget>
  <!-- Composition composition-author-role and Composition author -->
  <author>
    <!-- author (PractitionerRole with Practitioner with Mandatory Identifier) templateId-->
    <templateId root="1.2.36.1.2001.1001.102.101.100006"/>
    <!-- Composition date -->
    <time value="20181012"/>
    <assignedAuthor>
      <id root="c0208458-770c-4cd3-bc88-4e0423de7888"/>
      <!-- PractitionerRole code -->
      <code code="251111" codeSystem="2.16.840.1.113883.13.62"
        codeSystemName="Australian and New Zealand Standard Classification of Occupations"
        displayName="Dietitian">
        <originalText>Dietitian</originalText>
      </code>
      <!--Practitioner telecom-->
      <telecom use="WB" value="fax:0370102020"/>
      <!-- PractitionerRole practitioner -->
      <assignedPerson>
        <!-- assignedPerson (Practitioner with Mandatory Identifier) templateId -->
        <templateId root="1.2.36.1.2001.1001.102.101.100040"/>
        <!-- PractitionerRole identifier / Practitioner identifier -->
        <ext:asEntityIdentifier classCode="IDENT">
          <ext:id root="1.2.36.1.2001.1003.0.8003616566708106"
```

```
        assigningAuthorityName="HPI-I" />
    <ext:assigningGeographicArea classCode="PLC">
        <ext:name>National Identifier</ext:name>
    </ext:assigningGeographicArea>
</ext:asEntityIdentifier>
</assignedPerson>
</assignedAuthor>
</author>
<!-- Composition custodian -->
<custodian>
    <!-- custodian (Organization with Mandatory Identifier) templateId-->
    <templateId root="1.2.36.1.2001.1001.102.101.100002" />
    <assignedCustodian>
        <representedCustodianOrganization>
            <id root="45ble730-8d36-4983-bfa2-5aa58e2353e7" />
        <!-- Organization identifier -->
        <ext:asEntityIdentifier classCode="IDENT">
            <ext:id assigningAuthorityName="HPI-O"
                root="1.2.36.1.2001.1003.0.800362656699742" />
            <ext:assigningGeographicArea classCode="PLC">
                <ext:name>National Identifier</ext:name>
            </ext:assigningGeographicArea>
        </ext:asEntityIdentifier>
        </representedCustodianOrganization>
    </assignedCustodian>
</custodian>
<!-- Composition attester (Legal Attester) -->
<legalAuthenticator>
    <templateId root="1.2.36.1.2001.1001.102.101.100012" />
    <time value="20181012100015+1000" />
    <signatureCode code="S" />
    <assignedEntity>
        <id root="be48e279-9b67-4617-a7f6-406b94b947ff" />
        <assignedPerson>
            <!-- Practitioner name -->
            <name>
                <prefix>Mr.</prefix>
                <given>Zane</given>
                <family>Sinclair</family>
            </name>
            <!-- Practitioner identifier -->
            <ext:asEntityIdentifier classCode="IDENT">
                <ext:id root="1.2.36.1.2001.1003.0.8003611566708354"
                    assigningAuthorityName="HPI-I" />
                <ext:assigningGeographicArea classCode="PLC">
                    <ext:name>National Identifier</ext:name>
                </ext:assigningGeographicArea>
            </ext:asEntityIdentifier>
        </assignedPerson>
    </assignedEntity>
</legalAuthenticator>
<component>
    <structuredBody>
        <!-- component (Administrative Observations)-->
        <component>
            <section>
                <!-- component section (Administrative Observations) templateId-->
                <templateId root="1.2.36.1.2001.1001.102.101.100000" />
                <id root="c0e09086-3877-49ac-ac55-082b1509a19b" />
                <code code="102.16080" codeSystem="1.2.36.1.2001.1001.101"
                    codeSystemName="NCTIS Data Components"
                    displayName="Administrative Observations" />
                <title>Administrative Observations</title>
                <text mediaType="text/x-hl7-text+xml">
                    <paragraph>Patient's date of birth is accurate</paragraph>
                </text>
                <!-- Patient birthDate date-accuracy-indicator -->
                <entry>
                    <observation classCode="OBS" moodCode="EVN">
                        <code code="102.16234" codeSystem="1.2.36.1.2001.1001.101"
                            codeSystemName="NCTIS Data Components"
                            displayName="Date of Birth Accuracy Indicator" />
                        <value xs:type="CD" code="AAA"
                            codeSystem="1.2.36.1.2001.1004.200.10014"
                            codeSystemName="Date Accuracy Indicator"
                            displayName="Day, month and year are accurate">
                            <originalText>Patient's date of birth is accurate</originalText>
                        </value>
                    </observation>
                </entry>
            </section>
        </component>
        <!-- Composition section (Allergies) -->
        <component>
            <section>
                <!-- section (Allergies) templateId-->
                <templateId root="1.2.36.1.2001.1001.102.101.100069" />
                <!-- section code-->
                <code code="48765-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
                    displayName="Allergies &or adverse reactions" />
                <!-- section title-->
                <title>Allergies and Intolerances</title>
                <!-- section text-->
                <text mediaType="text/x-hl7-text+xml">
                    <paragraph>Patient not asked</paragraph>
                </text>
                <!-- section emptyReason-->
                <entry>
                    <observation classCode="OBS" moodCode="EVN">
```

```
<code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"
      displayName="Assertion"/>
<value xsi:type="CD" code="notasked"
      codeSystem="2.16.840.1.113883.4.642.4.1106"
      codeSystemName="ListEmptyReasons" displayName="Not Asked">
    <originalText>Patient not asked</originalText>
  </value>
</observation>
</entry>
</section>
</component>
<!-- Composition section (Medicines List) -->
<component>
  <section>
    <!-- section (Medicines List) templateId-->
    <templateId root="1.2.36.1.2001.1001.102.101.100077"/>
    <!-- section code -->
    <code code="10160-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
          displayName="History of Medication use Narrative"/>
    <!-- section title -->
    <title>Medicines Summary</title>
    <!-- section text -->
    <text mediaType="text/x-hl7-text+xml">
      <paragraph>Patient is not taking any medicines</paragraph>
    </text>
    <!-- section entry -->
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <!-- observation (Assertion of No Relevant Finding) templateId-->
        <templateId root="1.2.36.1.2001.1001.102.101.100032"/>
        <!-- Observation code-->
        <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"
              displayName="Assertion"/>
        <!-- Observation value[x]-->
        <value xsi:type="CD" code="1234391000168107"
              codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
              displayName="No known current medications">
          <originalText>Patient is not taking any medicines</originalText>
        </value>
        <!-- Observation status-->
        <entryRelationship typeCode="COMP">
          <observation classCode="OBS" moodCode="EVN">
            <code code="103.32010" codeSystem="1.2.36.1.2001.1001.101"
                  codeSystemName="NCTIS Data Components"
                  displayName="Observation Result Status"/>
            <value xsi:type="CD" code="final"
                  codeSystem="2.16.840.1.113883.4.642.4.401"
                  codeSystemName="ObservationStatus" displayName="Final"/>
          </observation>
        </entryRelationship>
      </observation>
    </entry>
  </section>
</component>
</structuredBody>
</component>
</ClinicalDocument>
```

# Appendix C. Mapping from requirements

This implementation guide is intended to support multiple usage scenarios; some templates described within this implementation guide are reused across usage scenarios and other implementation guides.

This informative appendix provides a mapping from the requirements of each end-product clinical specification to a logical element (profiled FHIR resource) and its corresponding mapping to a CDA schema element (in a CDA template). At the time of publication of this implementation guide the only end-product clinical specification supported is Pharmacist Shared Medicines List (PSML) which is a sub-type of the document-level usage scenario Shared Medicines List Authored by Practitioner.

The mapping from requirements tables in this appendix demonstrates the logical decomposition of each requirement to the lowest possible element in the applicable logical model and CDA template.

## Legend for mapping from requirements

Requirement	Req No.	Logical element	CDA schema element	Additional notes
The heading text of the requirement as taken from the requirements specification.	The requirement number as taken from the requirement specification.	<p>Either the name of the lowest element in a profiled FHIR resource that addresses the requirement or n/a where the requirement has been deemed not applicable.</p> <p>If the lowest possible decomposition is to the resource then only the resource name (e.g. Patient) is present. If the lowest possible decomposition is to one or more child elements of a FHIR resource then a "&gt;" notation is used to indicate the hierarchical relationship.</p> <p>For example Patient &gt; communication &gt; language indicates the requirement maps to the language element, that is a child of the communication element, in the Patient FHIR resource.</p> <p>Where a requirement is addressed by multiple elements, the elements are presented in order of appearance in the profiled FHIR resource.</p>	<p>Either the path to the lowest level CDA schema element in a template that addresses the requirement or n/a where the requirement has been deemed not applicable to a CDA template.</p> <p>The syntax for this uses an <a href="#">XPath like notation</a> and starts as the root element ClinicalDocument e.g.</p> <p style="padding-left: 40px;">ClinicalDocument/recordTarget/patientRole/patient/name</p> <p>Where an element is addressed by multiple CDA schema element paths, each path is presented.</p>	<p>Additional notes are provided where a gap between a requirement, or parts of a requirement, and the templates is identified.</p> <p>Where a requirement is fully addressed by the mapped elements then no entry in this column is expected.</p>

## C.1 Mapping from PSML business requirements

The table below provides mapping from the requirements in *Pharmacist Shared Medicines List Scenarios and business requirements [DH2020a]* to the corresponding supported element in the Composition (Shared Medicines List Authored by Practitioner) model and their corresponding CDA schema element(s) in the *ClinicalDocument (Shared Medicines List Authored by Practitioner)* template from the root *ClinicalDocument*.

See [C.1 Legend for mapping from requirements](#) for an explanation of requirements mapping table presentation.

Requirement	Req No.	Logical element	CDA schema element	Additional notes
Pharmacist shared medicines list	027948	Composition	ClinicalDocument	
		Composition > composition-author-role	ClinicalDocument/author	
Components in the PSML document	028321	n/a	ClinicalDocument/id	This requirement mandates inclusion of the organisation the pharmacist is representing at the time of document authoring. The CDA template supports this as optional.
		n/a	ClinicalDocument/versionNumber	
		Composition	ClinicalDocument	This requirement mandates inclusion of the name of the primary healthcare provider's organisation if a primary healthcare provider is included.
		Composition > identifier	ClinicalDocument/setId	
		Composition > composition-author-role	ClinicalDocument/author	The CDA template supports inclusion of a primary care provider as a practitioner or as an organisation - direct support is not provided in FHIR or the CDA template for a primary care provider practitioner with included organisational information. The CDA template for a primary care provider organisation allows a name or identifier - it does not mandate name.
		Composition > subject	ClinicalDocument/recordTarget	
		Composition > date	ClinicalDocument/author/time	
		Composition > section(Allergies)	ClinicalDocument/component/structuredBody/component[allergy]/section	
		Composition > section(Medicines List)	ClinicalDocument/component/structuredBody/component[meds]/section	One possible way a sending system could provide a practitioner with organisation name is to instantiate a practitioner (participant[gen_prac]/associated Entity/associatedPerson) and also provide the organisation's name (participant[gen_prac]/associated Entity/scopingEntity/name) as a local extension.
		PractitionerRole > organization	ClinicalDocument/author/assignedAuthor/representedOrganization	
		Patient > generalPractitioner	ClinicalDocument/participant[gen_prac]	These parts of the requirement are best enforced in a conformance profile.
Document conformance levels	028315	Composition	ClinicalDocument	This requirement states a PSML document will conform to either Level 3A or Level 3B.
		Composition > section(Allergies)	ClinicalDocument/component/structuredBody/component[allergy]/section	
		Composition > section(Medicines List)	ClinicalDocument/component/structuredBody/component[meds]/section	The CDA templates enforce Level 3B.
Point-to-point transmission	027954	Composition	ClinicalDocument	
HPI-I relaxed template package	028394	Practitioner > identifier	ClinicalDocument/author/assignedAuthor/assignedPerson/ext:asEntityIdentifier	

Requirement	Req No.	Logical element	CDA schema element	Additional notes
Compatible with Prescription and Dispense Record	028323	MedicationStatement	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration	
		Medication	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/consumable/manufacturedProduct	
Prompt to upload recent PSML	028325	n/a	n/a	This requirement is a producing system behavioural requirement.
Medicines information presentation	028359	n/a	n/a	This requirement is a rendering requirement.
Allergies and Adverse Reactions section	028355	n/a	n/a	This requirement is a rendering requirement.
Allergies and Adverse Reactions header	028360	Composition > section(Allergies) > text	n/a	This requirement is a rendering requirement.
No known allergies or adverse reactions	028411	AllergyIntolerance	ClinicalDocument/component/structuredBody/component[allergy]/section/entry[adv]/observation	
Current Medicines section	028361	n/a	n/a	This requirement is a rendering requirement.
Current Medicines header	028362	n/a	n/a	This requirement is a rendering requirement.
Ceased Medicines section	028363	n/a	n/a	This requirement is a rendering requirement.
Ceased Medicines header	028364	n/a	n/a	This requirement is a rendering requirement.
Suppressing Ceased Medicines section	028358	n/a	n/a	This requirement is a rendering requirement.  The CDA template allows a ceased medicines list to contain an empty reason.
Suppressing codes and medicine identifiers	028625	n/a	n/a	This requirement is a system behavioural requirement.  This requirement is satisfied by typical producing and consuming system behaviour. Only the originalText or displayName associated with a code is expected to be included in the narrative and rendered.
Completeness of PSML document	028324	n/a	n/a	This requirement is a producing system behavioural requirement.
Identifier for document author	028317	Practitioner > identifier	ClinicalDocument/author/assignedAuthor/assignedPerson/ext:asEntityIdentifier	
No Address for the consumer	028319	Patient > address	ClinicalDocument/recordTarget/patientRole/addr	This requirement prohibits inclusion of any address for the consumer when uploaded to the My Health Record.
			ClinicalDocument/informationRecipient/intendedRecipient/addr	
			ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/substanceAdministration/informant/assignedEntity/addr	This requirement may be enforced in a conformance profile by mandating conformance to <a href="#">recordTarget (My Health Record Patient)</a> .
			ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/observation/author/assignedAuthor/addr	

Requirement	Req No.	Logical element	CDA schema element	Additional notes
No Electronic Communication Detail for the consumer	028320	Patient > telecom	ClinicalDocument/recordTarget/patientRole/telecom	This requirement prohibits inclusion of any electronic communication detail for the consumer when uploaded to the My Health Record.  This requirement may be enforced in a conformance profile by mandating conformance to <a href="#">recordTarget (My Health Record Patient)</a> .
			ClinicalDocument/informationRecipient/intendedRecipient/telecom	
			ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/substanceAdministration/informant/assignedEntity/telecom	
			ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/observation/author/assignedAuthor/telecom	
Attribute for Healthcare Setting	028349	Encounter > type	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[enc]/encounter/entryRelationship[type]/observation/value	This requirement mandates inclusion of the healthcare setting. This requirement is best enforced in a conformance profile.  The CDA templates support healthcare setting as a set of optional elements; role code (e.g. "Community Pharmacy" or "Hospital Pharmacy") or encounter type (e.g. "Home Medicines Review").
		PractitionerRole > code	ClinicalDocument/author/assignedAuthor/code	
		Organization > type	ClinicalDocument/author/assignedAuthor/representedOrganization/standardIndustryClassCode	
Attribute for Dose Administration Aid medicines present	028413	List > packed-in-daa	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[daa_pack]/observation/value	
Additional Comment	028348	Composition > section(Medicines List) > text	ClinicalDocument/component/structuredBody/component[meds]/section/text	
		List > note	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[note]/act/text	
Attribute for Ceased Date	028352	MedicationStatement > effective[x]	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/effectiveTime	
Attribute for Substance/ Agent of allergy and adverse reaction	028330	AllergyIntolerance > code	ClinicalDocument/component/structuredBody/component[allergy]/section/entry[adv]/observation/value	
		AllergyIntolerance > reaction > substance	ClinicalDocument/component/structuredBody/component[allergy]/section/entry[adv]/observation/entryRelationship[react]/observation/participant[agent]/participantRole/playingEntity/code	
Attribute for Reaction Type	028331	AllergyIntolerance > type	ClinicalDocument/component/structuredBody/component[allergy]/section/entry[adv]/observation/code	
Attribute for Reaction	028332	AllergyIntolerance > reaction > manifestation	ClinicalDocument/component/structuredBody/component[allergy]/section/entry[adv]/observation/entryRelationship[react]/observation/entryRelationship[mfst]/observation/code	
Attribute for Reaction Onset Date	028410	AllergyIntolerance > onset[x]	ClinicalDocument/component/structuredBody/component[allergy]/section/entry[adv]/observation/effectiveTime/low/@value	
Attribute for Medicine Identifier	028329	Medication > code	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/consumable/manufacturedProduct/manufacturedMaterial/code	
Attribute for Active Ingredient	028333	Medication > code	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/consumable/manufacturedProduct/manufacturedMaterial/code	
		Medication > ingredient > item[x]	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/consumable/manufacturedProduct/manufacturedMaterial/ext:asIn-ingredient/ext:ingredientManufacturedMaterial/ext:code	
No Latin words or abbreviations of Active Ingredient	028390	n/a	n/a	This requirement is a producing system behavioural requirement.

Requirement	Req No.	Logical element	CDA schema element	Additional notes
Attribute for Brand Name	028335	Medication > code	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/manufacturedProduct/manufacturedMaterial/code	
		Medication > medication-brand-name	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[brand]/act/text	
Active Ingredient or Brand Name	028412	Medication > code	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/manufacturedProduct/manufacturedMaterial/code	This requirement states each medicine item will have either the active ingredient(s) or a brand name, or both. This requirement is best enforced in a conformance profile.  The CDA template supports brand name and active ingredient(s) as optional.
		Medication > medication-brand-name	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[brand]/act/text	
		Medication > ingredient > item[x]	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/manufacturedProduct/manufacturedMaterial/ext:asIngredient/ext:ingredientManufacturedMaterial/ext:code	
Attribute for Strength	028392	Medication > code	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/manufacturedProduct/manufacturedMaterial/code	
		Medication > ingredient > amount	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/manufacturedProduct/manufacturedMaterial/ext:asIngredient/ext:ingredientManufacturedMaterial/ext:quantity	
Attribute for Dose Form	028391	Medication > code	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/manufacturedProduct/manufacturedMaterial/code	
		Medication > form	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/manufacturedProduct/manufacturedMaterial/ext:formCode	
Attribute for Route	028399	MedicationStatement > dosage > text	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/text	
		MedicationStatement > dosage > patientInstruction	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/text	
		MedicationStatement > dosage > route	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/routeCode	
Attribute for Direction	028336	MedicationStatement > dosage	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/text	
No Latin words or abbreviations for Direction	028337	n/a	n/a	This requirement is a producing system behavioural requirement.
Attribute for Medicine Purpose	028338	MedicationStatement > reasonCode	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[reason]/observation/value	
Terminology for Medicine Purpose	028339	MedicationStatement > reasonCode	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[reason]/observation/value	
Attribute for Expected End Date	028343	MedicationStatement > effective[x]	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/effectiveTime	
Attribute for Special Instruction	028345	MedicationStatement > note	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[note]/act/text	
		MedicationStatement > dosage	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/text	

Requirement	Req No.	Logical element	CDA schema element	Additional notes
Attribute for Medicine Image	028346	n/a	n/a	<p>Support for medicine image attribute has been removed from the Medication model in the first normative release of FHIR. For this reason the use of medication image is strongly discouraged in the HL7 AU content based on a prior FHIR release (STU3) and unsupported by this implementation guide.</p> <p>Where a sending system can include a medicine image, it is expected to be sent in the narrative for the Medicines List section.</p>
Image sizes	028406	n/a	n/a	This requirement is a producing system behavioural requirement.
Attribute for Physical Descriptions	028347	n/a	n/a	<p>Not directly supported in FHIR or CDA.</p> <p>One possible way a sending system can include a physical description of the medicine item is to include such description in section text.</p>
Attribute for reason for ceasing medicine	028351	List > entry > change-description	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/text	
Attribute for Medicine Status	028342	List > entry > change-description	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/text	
		List > entry > flag	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/value	
Withheld Medicine	028620	List > entry > change-description	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/text	
Withheld Medicine Ordering	028626	n/a	n/a	This requirement is a system behavioural requirement.
Ceased medicines	028623	MedicationStatement	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration	Parts of this requirement are producing system behavioural requirements.

## C.2 Mapping from PSML information requirements

The table below provides mapping from the requirements in [Pharmacist Shared Medicines List Information Requirements \[DH2020b\]](#) to the corresponding supported element in the Composition (Shared Medicines List Authored by Practitioner) model and their corresponding CDA schema element(s) in the [ClinicalDocument \(Shared Medicines List Authored by Practitioner\)](#) template from the root [ClinicalDocument](#).

See [C.1 Legend for mapping from requirements](#) for an explanation of requirements mapping table presentation.

Requirement	Req No.	Logical element	CDA schema element	Additional notes
Individual's address (optional)	028640	Patient > address	ClinicalDocument/recordTarget/patientRole/addr	
Individual's electronic communication details (optional)	024042	Patient > telecom	ClinicalDocument/recordTarget/patientRole/telecom	
Individual (subject of care)	027984	Patient	ClinicalDocument/recordTarget/patientRole/patient	
Individual healthcare identifier (mandatory)	022082	Patient > identifier	ClinicalDocument/recordTarget/patientRole/patient/ext:asEntityIdentifier	This requirement mandates inclusion of the individual's IHI. This requirement may be enforced in a conformance profile by mandating conformance to <a href="#">recordTarget (My Health Record Patient)</a> .
Individual's title (optional)	022081	Patient > name > text	ClinicalDocument/recordTarget/patientRole/patient/name	
		Patient > name > prefix	ClinicalDocument/recordTarget/patientRole/patient/name/prefix	
Individual's given name (optional)	023056	Patient > name > text	ClinicalDocument/recordTarget/patientRole/patient/name	
		Patient > name > given	ClinicalDocument/recordTarget/patientRole/patient/name/given	
Individual's family name (mandatory)	023058	Patient > name > text	ClinicalDocument/recordTarget/patientRole/patient/name	
		Patient > name > family	ClinicalDocument/recordTarget/patientRole/patient/name/family	
Individual's name suffix (optional)	023059	Patient > name > text	ClinicalDocument/recordTarget/patientRole/patient/name	
		Patient > name > suffix	ClinicalDocument/recordTarget/patientRole/patient/name/suffix	
Individual's gender (mandatory)	027983	Patient > gender	ClinicalDocument/recordTarget/patientRole/patient/administrativeGenderCode	This requirement mandates inclusion of the individual's gender. This requirement may be enforced in a conformance profile by mandating conformance to <a href="#">recordTarget (My Health Record Patient)</a> .
Individual's sex (optional)	028570	n/a	n/a	Not directly supported in FHIR or CDA. This implementation guide only supports including a patient's gender as part of a patient's demographics for identification purposes in line with the Australian Government recommendations in <a href="#">Australian Government Guidelines on the Recognition of Sex and Gender</a> . Work is underway with HL7 AU to define a nationally agreed model for the capture of biological sex as a clinically relevant observation, see <a href="https://git-hub.com/hl7au/au-fhir-base/issues/321">https://git-hub.com/hl7au/au-fhir-base/issues/321</a> .

Requirement	Req No.	Logical element	CDA schema element	Additional notes
Individual's date of birth (mandatory)	023060	Patient > birthDate	ClinicalDocument/recordTarget/patientRole/patient/birthTime	This requirement mandates inclusion of the individual's date of birth. This requirement may be enforced in a conformance profile by mandating conformance to <a href="#">recordTarget (My Health Record Patient)</a> .
Date of birth accuracy indicator (optional)	024026 027005	Patient > birthDate > date-accuracy-indicator	ClinicalDocument/component/structuredBody/component[admin_obs]/section/entry[dob_acc]/observation/value	
Indigenous status (mandatory)	024033	Patient > indigenous-status	ClinicalDocument/recordTarget/patientRole/patient/ethnicGroupCode	This requirement mandates inclusion of the individual's indigenous status. This requirement may be enforced in a conformance profile by mandating conformance to <a href="#">recordTarget (My Health Record Patient)</a> .
Document author (mandatory)	027985	n/a  PractitionerRole	ClinicalDocument/author  ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/author  ClinicalDocument/author  ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/author	
Healthcare provider organisation name (mandatory)	023070	Organization > name	ClinicalDocument/author/assignedAuthor/representedOrganization/name	This requirement mandates inclusion of the name of the organisation the author is representing. This requirement is best enforced in a conformance profile. The CDA template supports organisation as optional.
Healthcare provider individual's workplace address (mandatory)	024891	Practitioner > address	ClinicalDocument/author/assignedAuthor/addr	This requirement mandates inclusion of the author's workplace address. This requirement is best enforced in a conformance profile. The CDA template supports address as optional.
Healthcare provider individual's workplace electronic communication details (optional)	024036	Practitioner > telecom	ClinicalDocument/author/assignedAuthor/telecom	
Healthcare provider professional role (mandatory)	024040	PractitionerRole > code	ClinicalDocument/author/assignedAuthor/code	This requirement mandates inclusion an element for the author's professional role (it may carry an absent value). This requirement is best enforced in a conformance profile. The CDA template supports role as optional.
Healthcare Provider Identifier-Individual (optional)	024601	Practitioner > identifier	ClinicalDocument/author/assignedAuthor/assignedPerson/ext:asEntityIdentifier	
Healthcare Provider Identifier-Organisation (optional)	024602	Organization > identifier	ClinicalDocument/author/assignedAuthor/representedOrganization/ext:asEntityIdentifier	
Healthcare provider's title (optional)	023061	Practitioner > name > text Practitioner > name > prefix	ClinicalDocument/author/assignedAuthor/assignedPerson/name ClinicalDocument/author/assignedAuthor/assignedPerson/name/prefix	
Healthcare provider given name (optional)	023062	Practitioner > name > text Practitioner > name > given	ClinicalDocument/author/assignedAuthor/assignedPerson/name ClinicalDocument/author/assignedAuthor/assignedPerson/name/given	

Requirement	Req No.	Logical element	CDA schema element	Additional notes
Healthcare provider family name (mandatory)	023064	Practitioner > name > text	ClinicalDocument/author/assignedAuthor/assignedPerson/name	This requirement mandates inclusion of the author's family name. This requirement is best enforced in a conformance profile.  The CDA template supports name as optional.
		Practitioner > name > family	ClinicalDocument/author/assignedAuthor/assignedPerson/name/family	
Healthcare provider name suffix (optional)	023065	Practitioner > name > text	ClinicalDocument/author/assignedAuthor/assignedPerson/name	
		Practitioner > name > suffix	ClinicalDocument/author/assignedAuthor/assignedPerson/name/suffix	
Primary healthcare provider (optional)	028028	Patient > generalPractitioner	ClinicalDocument/participant[gen_prac]	This requirement mandates inclusion of at most one primary care provider. This requirement is best enforced in a conformance profile.  The CDA template supports multiple primary care providers.
Healthcare Provider Identifier-Individual (optional)	024601	Practitioner > identifier	ClinicalDocument/participant[gen_prac]/associatedEntity/associatedPerson/ext:asEntityIdentifier	
Healthcare Provider Identifier-Organisation (optional)	024602	Organization > identifier	ClinicalDocument/participant[gen_prac]/associatedEntity/scopingOrganization/ext:asEntityIdentifier	
Healthcare provider's title (optional)	023061	Practitioner > name > text	ClinicalDocument/participant[gen_prac]/associatedEntity/associatedPerson/name	
		Practitioner > name > prefix	ClinicalDocument/participant[gen_prac]/associatedEntity/associatedPerson/name/prefix	
Healthcare provider given name (optional)	023062	Practitioner > name > text	ClinicalDocument/participant[gen_prac]/associatedEntity/associatedPerson/name	
		Practitioner > name > given	ClinicalDocument/participant[gen_prac]/associatedEntity/associatedPerson/name/given	
Healthcare provider family name (optional)	028638	Practitioner > name > text	ClinicalDocument/participant[gen_prac]/associatedEntity/associatedPerson/name	
		Practitioner > name > family	ClinicalDocument/participant[gen_prac]/associatedEntity/associatedPerson/name/family	
Healthcare provider name suffix (optional)	023065	Practitioner > name > text	ClinicalDocument/participant[gen_prac]/associatedEntity/associatedPerson/name	
		Practitioner > name > suffix	ClinicalDocument/participant[gen_prac]/associatedEntity/associatedPerson/name/suffix	
Healthcare provider organisation name (mandatory)	023070	Organization > name	ClinicalDocument/participant[gen_prac]/associatedEntity/scopingOrganization/name	<p>This requirement mandates inclusion of the primary care provider's organisation name.</p> <p>The CDA template supports inclusion of a primary care provider as a practitioner or as an organisation - direct support is not provided in FHIR or the CDA template for a primary care provider practitioner with included organisational information. The CDA template for a primary care provider organisation allows a name or identifier - it does not mandate name.</p> <p>One possible way a sending system could provide a practitioner with organisation name is to instantiate a practitioner (participant[gen_prac]/associatedEntity/associatedPerson) and also provide the organisation's name (participant[gen_prac]/associatedEntity/scopingEntity/name) as a local extension.</p> <p>These parts of the requirement are best enforced in a conformance profile.</p>
Healthcare provider individual's workplace address (optional)	024035	Practitioner > address	ClinicalDocument/participant[gen_prac]/associatedEntity/addr	
Healthcare provider individual's workplace electronic communication details (optional)	024036	Practitioner > telecom	ClinicalDocument/participant[gen_prac]/associatedEntity/telecom	

Requirement	Req No.	Logical element	CDA schema element	Additional notes
Healthcare provider professional role (mandatory)	024040	n/a	ClinicalDocument/participant[gen_prac]/associatedEntity/code	This requirement mandates inclusion of the primary care provider's professional role though it may be supplied as an absent value. This requirement is best enforced in a conformance profile.  The CDA templates support role as optional.
		Organization > type	ClinicalDocument/participant[gen_prac]/associatedEntity/code	
Healthcare setting (mandatory)	028435	Encounter > type	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[enc]/encounter/entryRelationship[type]/observation/value	This requirement mandates inclusion of the healthcare setting in which the document was authored. This requirement is best enforced in a conformance profile.  The CDA template supports encounter type as optional. Implementation guidance is included in the CDA template to direct implementers to include encounter with type when sending a PSML.
	028534			
Additional comments (optional)	028403	section > text	ClinicalDocument/component/structuredBody/component[meds]/section/text	
		List > note	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[note]/act/text	
Dose Administration Aid medicines present (mandatory)	028441	List > packed-in-daa	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[daa_pack]/observation/value	
Allergy and Adverse Reaction (optional)	028631	Composition > section (Allergies)	ClinicalDocument/component/structuredBody/component[allergy]/section	
		AllergyIntolerance	ClinicalDocument/component/structuredBody/component[allergy]/section/entry[adv]/observation	
	028673	AllergyIntolerance > code	ClinicalDocument/component/structuredBody/component[allergy]/section/entry[adv]/observation/value	
Substance/Agent (optional)	028436	AllergyIntolerance > code	ClinicalDocument/component/structuredBody/component[allergy]/section/entry[adv]/observation/value	
		AllergyIntolerance > reaction > substance	ClinicalDocument/component/structuredBody/component[allergy]/section/entry[adv]/observation/entryRelationship[react]/observation/participant[agent]/participantRole/playingEntity/code	
Reaction type (optional)	028437	AllergyIntolerance > type	ClinicalDocument/component/structuredBody/component[allergy]/section/entry[adv]/observation/code	
Reaction (optional)	028438	AllergyIntolerance > reaction > manifestation	ClinicalDocument/component/structuredBody/component[allergy]/section/entry[adv]/observation/entryRelationship[react]/observation/entryRelationship[mfst]/observation/code	
Reaction Onset Date (optional)	028439	AllergyIntolerance > onset[x]	ClinicalDocument/component/structuredBody/component[allergy]/section/entry[adv]/observation/effectiveTime/low/@value	

Requirement	Req No.	Logical element	CDA schema element	Additional notes
Medicine Item (mandatory)	028632	Composition > section (Medicines List)	ClinicalDocument/component/structuredBody/component[meds]/section	This requirement mandates inclusion of one or more medicine items. This requirement is best enforced in a conformance profile.  In addition to a section with one or more medicine items the CDA template supports a section with a statement the patient has no known current medications, or a section containing an empty reason.
		List > entry	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]	
		List > entry > item	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration	
Medicine identifier (mandatory)	028633	Medication > code	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/consumable/manufacturedProduct/manufacturedMaterial/code	This requirement specifies a set of mandatory terminologies. This part of the requirement is best enforced in a conformance profile.  The CDA template allows these and other terminologies. Implementation guidance is included in the CDA template to direct implementers to the preferred terminology.
	028634			
Active Ingredient (optional)	028014	Medication > code	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/consumable/manufacturedProduct/manufacturedMaterial/code	
		Medication > ingredient	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/consumable/manufacturedProduct/manufacturedMaterial/ext:asIngredient	
Brand name (optional)	028442	Medication > code	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/manufacturedProduct/manufacturedMaterial/code	
		Medication > medication-brand-name	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[brand]/act/text	
Medicine strength (optional)	028635	Medication > code	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/manufacturedProduct/manufacturedMaterial/code	
		Medication > ingredient > amount	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/manufacturedProduct/manufacturedMaterial/ext:asIngredient/ext:ingredientManufacturedMaterial/ext:quantity	
Dose form (optional)	028026	Medication > code	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/manufacturedProduct/manufacturedMaterial/code	
		Medication > form	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/manufacturedProduct/manufacturedMaterial/ext:formCode	

Requirement	Req No.	Logical element	CDA schema element	Additional notes
Route (optional)	028443	MedicationStatement > dosage > text	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/text	
		MedicationStatement > dosage > patientInstruction	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/text	
		MedicationStatement > dosage > route	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/routeCode	
Direction (mandatory)	028021	MedicationStatement > dosage	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/text	
Dose per administration (optional)	028670	MedicationStatement > dosage > text	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/text	
		MedicationStatement > dosage > dose[x]	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/doseQuantity	
Frequency of administration (optional)	028668	MedicationStatement > dosage > text	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/text	
		MedicationStatement > dosage > timing	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/effectiveTime	
Timing of administration (optional)	028669	MedicationStatement > dosage > text	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/text	
		MedicationStatement > dosage > as-Needed[x]	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/precondition/criterion/value	
		MedicationStatement > dosage > timing	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/effectiveTime	
Medicine purpose (optional)	028016	MedicationStatement > reasonCode	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[reason]/observation/value	
Expected end date (optional)	028445	MedicationStatement > effective[x]	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/effectiveTime	
Special instructions (optional)	028446	MedicationStatement > note	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[note]/act/text	
		MedicationStatement > dosage> text	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/text	
Medicine image (optional)	028018	n/a	n/a	Support for medicine image attribute has been removed from the Medication model in the first normative release of FHIR. For this reason the use of medication image is strongly discouraged in the HL7 AU content based on a prior FHIR release (STU3) and unsupported by this implementation guide.  One possible way a sending system can include a medicine image is to include the image in section text.
	028535	n/a	n/a	This requirement is a producing system behavioural requirement.

Requirement	Req No.	Logical element	CDA schema element	Additional notes
Physical description (optional)	028020	n/a	n/a	<p>Not directly supported in FHIR or CDA.</p> <p>One possible way a sending system can include a physical description of the medicine item is to include such description in section text.</p>
Medicine status (optional)	028017	List > entry > flag	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/value	
	028027	List > entry > change-description	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/text	This requirement specifies a mandatory set of values for medicine status. This part of the requirement is best enforced in a conformance profile.
		List > entry > flag	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/value	The CDA template supports an equivalent set of values as well as additional values. Implementation guidance is included in the CDA template to direct implementers to the preferred terminology.
	028636	List > entry > flag	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/value	This requirement mandates a status of ceased for a ceased medicine. This requirement is best enforced in a conformance profile.
		MedicationStatement > status	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/statusCode	The CDA template does not enforce a direct relationship between status concepts.
Ceased medicine (optional)	028674	Composition > section (Medicines List)	ClinicalDocument/component/structuredBody/component[meds]/section	
		List > entry > item	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/consumable/manufacturedProduct/manufacturedMaterial/code	
		MedicationStatement	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration	
Medicine identifier (mandatory)	028633	Medication > code	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/consumable/manufacturedProduct/manufacturedMaterial/code	
	028634			<p>This requirement specifies a set of mandatory terminologies. This part of the requirement is best enforced in a conformance profile.</p> <p>The CDA template allows these and other terminologies. Implementation guidance is included in the CDA template to direct implementers to the preferred terminology.</p>
Reason for ceasing medicine (optional)	028447	List > entry > change-description	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/entryRelationship[flag]/observation/text	
Ceased date (optional)	028629	MedicationStatement > effective[x]	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/effectiveTime	
Ceased medicine status (mandatory)	028636	MedicationStatement > status	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[item]/substanceAdministration/statusCode	<p>This requirement mandates a status of ceased for a ceased medicine. This requirement is best enforced in a conformance profile.</p> <p>The CDA template does not enforce a direct relationship between status concepts.</p>

Requirement	Req No.	Logical element	CDA schema element	Additional notes
Extensions not permitted (mandatory)	028637	n/a	n/a	<p>This requirement states ceased medicine items shall not have data that is not defined in the requirements document.</p> <p>This part of the requirement is a producing system behavioural requirement.</p>
Document version number (mandatory)	023068	n/a	ClinicalDocument/setId	<p>This requirement mandates a document version number for a PSML document.</p> <p>This part of the requirement is best enforced in a conformance profile.</p> <p>The CDA template supports versioning an optional.</p>
			ClinicalDocument/versionNumber	
Document instance identifier (mandatory)	023067	n/a	ClinicalDocument/id	
Date and time of document creation (mandatory)	024025	n/a	ClinicalDocument/effectiveTime	
Document type (mandatory)	024027	Composition > type	ClinicalDocument/code	
Document sub-type (mandatory)	028671	Composition > title	ClinicalDocument/title	
		Encounter > type	ClinicalDocument/component/structuredBody/component[meds]/section/entry[meds]/act/entryRelationship[enc]/encounter/entryRelationship[type]/observation/value	
		PractitionerRole > code	ClinicalDocument/author/assignedAuthor/code	
		Organization > type	ClinicalDocument/author/assignedAuthor/representedOrganization/standardIndustryClassCode	
	028672	Composition > title	ClinicalDocument/title	<p>This requirement states a PSML document shall be sub-typed with the value "Pharmacist Shared Medicines List". This requirement is best enforced in a conformance profile.</p> <p>The CDA template supports multiple usage scenarios and does not mandate this fixed value.</p>

# References

- [DH2019a] Australian Digital Health Agency, 28 February 2019, *Common - Clinical Document*, Version 1.5.2.  
<https://developer.digitalhealth.gov.au/specifications/clinical-documents/ep-2807-2019>
- [DH2020a] Australian Digital Health Agency, Not yet published, *Pharmacist Shared Medicines List Scenarios and business requirements*, Version 2.0.
- [DH2020b] Australian Digital Health Agency, Not yet published, *Pharmacist Shared Medicines List Information Requirements*, Version 2.0.
- [DH2020c] Australian Digital Health Agency, Not yet published, *Pharmacist Shared Medicines List Conformance Profile*, Version 2.0.0.
- [DH2020l] Australian Digital Health Agency, Not yet published, *Shared Medicines List FHIR Implementation Guide*, Version 1.2.0 (Continuous Integration Build), accessed 25 May 2020.  
<https://github.com/AuDigitalHealth/ci-fhir-stu3/blob/master/output/SharedMedicinesList/full-ig.zip>
- [HI2011] Health Intersections, 2011, *Representation of Common Australian Identifiers in v2 and CDA*, accessed 28 November 2011.  
<http://www.healthintersections.com.au/?p=721>
- [HL7AUF3B2] HL7 Australia, *Australian Base Implementation Guide (AU Base 1.1.1)*, version 1.1.1 21 January 2020.  
<http://hl7.org.au/fhir/base/aubase1.1/index.html>
- [HL7CDAR2] Health Level Seven, Inc., January 2010, *HL7 Clinical Document Architecture, Release 2*.  
[http://www.hl7.org/implement/standards/product\\_brief.cfm?product\\_id=7](http://www.hl7.org/implement/standards/product_brief.cfm?product_id=7)
- [HL7FHIR3] Health Level Seven, Inc., 24 October 2019, *FHIR Release 3 (STU)*.  
<http://hl7.org/fhir/STU3/>
- [HL7RIM] Health Level Seven, Inc., January 2010, *HL7 Version 3 Standard – Reference Information Model*.  
[http://www.hl7.org/implement/standards/product\\_brief.cfm?product\\_id=77](http://www.hl7.org/implement/standards/product_brief.cfm?product_id=77)
- [HL7V3] Health Level Seven, Inc., January 2010, *HL7 Version 3 Standard*.  
[http://www.hl7.org/implement/standards/product\\_brief.cfm?product\\_id=186](http://www.hl7.org/implement/standards/product_brief.cfm?product_id=186)
- [IHTS2010] International Health Terminology Standards Development Organisation, January 2010, *SNOMED CT*, accessed 15 March 2010.  
<http://www.ihtsdo.org/snomed-ct>
- [INFO2009] Canada Health Infoway, *CDA Validation Tools: infoway\_release\_2\_2X\_18.zip*.  
<http://www.hl7.org/memonly/downloads/v3edition.cfm>
- [NEHT2011bv] National E-Health Transition Authority, 10 October 2011, *Representing Coding in CDA Documents Implementation Guidance*, Version 1.0.  
<https://developer.digitalhealth.gov.au/specifications/clinical-documents/ep-1094-2011/nehta-1097-2011>
- [NEHT2012s] National E-Health Transition Authority, 07 March 2012, *CDA Rendering Specification*, Version 1.0.  
<https://developer.digitalhealth.gov.au/specifications/clinical-documents/ep-1457-2013/nehta-1199-2012>
- [RFC2119] Network Working Group, 1997, *Key Words for Use in RFCs to Indicate Requirement Levels*, accessed 05 March 2019.  
<https://tools.ietf.org/html/rfc2119>
- [RING2009] Ringholm, 2009, *CDA Examples*, accessed 15 March 2010.  
[http://www.ringholm.de/download/CDA\\_R2\\_examples.zip](http://www.ringholm.de/download/CDA_R2_examples.zip)
- [SA2014a] Standards Australia, 2014, *AS 4846 (2014) – Person and provider identification in healthcare*.  
<http://infostore.saiglobal.com/store/details.aspx?ProductID=1753860>
- [UCUM] The Unified Code for Units of Measure, 2009, *The Unified Code for Units of Measure*, accessed 01 November 2012.  
<http://unitsofmeasure.org/trac/>

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