

**HL7 Implementation Guide for CDA Release 2.0
Personal Data Card**

(Danish profile – PDC-DK)

Draft for Trial Use

Release 2.0

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2.0	MedCom	2019-08-18	Draft for trial use
	MedCom	2019-10-31	Document changed due to comments on the first hearing process.
	MedCom	2019-11-07	Cardinality on temporary address changed from [0..*] to [0..1]
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	MedCom	2019-12-06	Updated OID for Sygesikringen. Added id-element for identification of dentist by ydernummer or SOR-kode
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1 INTRODUCTION

1.1 Audience

The audience for this document includes software developers and implementers of products and services for personal data card. This includes public and private disease management organizations as well as local, regional, and national health information exchange networks that wish to create and process personal data card documents created according to this specification.

1.2 Purpose

This document is a Danish profile of the Clinical Document Architecture (CDA) Release 2, Consolidated CDA Template for Clinical Notes, August 2015, Planned Encounter V2.

The purpose of this specification is to facilitate the communication of personal data between applications. Such communication of a personal data card is instances of the performance of a service. A personal data card describes data from the national CPR registry and data relating to relatives, dentists and information regarding will (Organ donor, living, treatment). The personal data card also contain information regarding the authors.

Please note that this CDA is created "on-demand" and the CDA document is not stored in a national repository.

Although this is a CDA the person involved doesn't have to be a patient, so we use the term "citizen" instead of "patient".

A specific use of this specification is to make it possible to show the personal data card at Sundhed.dk. This access will provide a common overview for health care professionals involved in the citizen's treatment.

1.2.1 Data content

The data elements for a personal data card include the following:

- Personal data card
 - A unique personal data card code
 - Custody information (From national CPR register)
 - Relative information (Manually entered)
 - Care giver information (General Practitioner and Dentist)

- Information regarding authors
- Information regarding will (organ, treatment, living)
- Document responsible
- Contact information (email, telephone)

1.3 Scope

This implementation guide is a conformance profile, as described in the "Refinement and Localization"ⁱ section of the *HL7 Version 3 Interoperability Standards*. The base standard for this implementation guide is the *HL7 Clinical Document Architecture, Release 2.0*ⁱⁱ. This implementation guide does not describe every aspect of the CDA. Rather, it defines constraints on the base C-CDA used for the Danish personal data card profile(PDC-DK)

1.4 Approach

Overall, the approach taken here is consistent with balloted implementation guides (IGs) for CDA. These publications view the ultimate implementation specification as a series of layered constraints. CDA itself is a set of constraints on the Health Level Seven (HL7) Reference Information Model (RIM). Implementation guides such as this document add constraints to CDA through conformance statements that further define and restrict the sequence and cardinality of CDA objects and the vocabulary sets for coded elements.

1.4.1 Keywords

The keywords **SHALL**, **SHALL NOT**, **SHOULD**, **SHOULD NOT**, **MAY**, and **NEED NOT** in this document is to be interpreted as described in the HL7 Version 3 Publishing Facilitator's Guide:

- **SHALL**: an absolute requirement
- **SHALL NOT**: an absolute prohibition against inclusion
- **SHOULD/SHOULD NOT**: best practice or recommendation. There may be valid reasons to ignore an item, but the full implications must be understood and carefully weighed before choosing a different course
- **MAY/NEED NOT**: truly optional; can be included or omitted as the author decides with no implications

The keyword **SHALL** allow the use of nullFlavor unless the requirement is on an attribute or the use of nullFlavor is explicitly precluded.

ⁱ <http://www.hl7.org/v3ballot/html/infrastructure/conformance/conformance.htm>

ⁱⁱ HL7 Clinical Document Architecture (CDA Release 2).

<http://www.hl7.org/implement/standards/cda.cfm>

1.4.2 Conformance Requirements

Constraint in this profile is based on the specification in the Clinical Document Architecture (CDA) Release 2, Consolidated CDA Template for Clinical Notes, August 2015 are widely used. For constraint reused the conformance requirement is formatted **CONF: XX**, which will ease the traceability for future revision of this document.

In many cases it has been necessary to modify or create new constraints for the use in Denmark. In such case the conformance criteria is formatted **CONF-DK: XX**. All CONF-DK:XX conformance requirements are numbered sequentially, starting at CONF-DK:100.

1.5 Organization of This Guide

This guide includes a set of CDA Templates and prescribes their use within a personal data card CDA document. The main chapters are:

- Chapter 2: Personal data card document Header Template describes constraints that apply to the header within the scope of this implementation guide.
- Chapter 3: Personal data card Document-Level Template defines the document constraints that apply to personal data card Documents.
- Chapter 4: Section-Level Template defines the section template in the personal data card Documents.
- Chapter 5: Entry-Level Template defines the entry template in personal data card Documents.
- Appendix A shows value sets and templateId's used in this specification

1.6 Content of the Package

The following files comprise the package:

Table 1: Content of the Package

Filename ⁱⁱⁱ	Description	Standards Applicability
PDC-DK-v2.0	This implementation guide	Normative
PDC20_Example-4_2019-11-07_with_narrative_text.xml	One of two sample CDA XML file that includes examples of templates discussed in this guide.	Informative
PDC20_Example-5_2020-01-07_with_narrative_text_and_confidential_address_2.xml	This sample CDA XML file shows how a citizen's confidential address is handled.	Informative
Files in the Schema folder	Normative CDA R2 schema files to validate a Personal Data Card Document instance.	Informative
cda.xls	One of two stylesheet for display of CDA instances	Informative
Stylesheet/Lantana Group/stylesheet-master/Stylesheets/CDA/cda.xsl	Another stylesheet for display of CDA instances	Informative

ⁱⁱⁱ The files can be downloaded from <https://svn.medcom.dk/svn/releases/Standarder/HL7/PDC>

2 PERSONAL DATA CARD DOCUMENT HEADER TEMPLATE

All generic Header information is described in the document: HL7 Implementation Guide for CDA Release 2.0 CDA Header (DK CDA Header) [DKHDR].

Header information pertaining specifically to this CDA is described in this paragraph.

2.1 PDC-DK specific header information

The instance of a PDC Document:

1. **SHALL** contain exactly one [1..1] header-level `templateId` (CONF-DK:100)
 - a. This `templateId` **SHALL** contain exactly one [1..1] `@root="1.2.208.184.16.1"` (CONF-DK:101)
2. **SHALL** contain exactly one [1..1] `id` (CONF-DK:102)
 - a. This `id` **SHALL** contain exactly one [1..1] extension = a globally unique identifier for the document (CONF-DK:103)
3. **SHALL** contain exactly one [1..1] `code` (CONF-DK:104).
 - a. This `code` **SHALL** contain exactly one [1..1] `@code="PDC"` specifying the Personal Data Card document instance (CONF-DK:105).
 - b. This `code` **SHALL** contain exactly one [1..1] `@codeSystem="1.2.208.184.100.1"` (CONF-DK:106)
 - c. This `code` **SHALL** contain exactly one [1..1] `@codeSystemName="MedCom Message Codes"` (CONF-DK:107).
 - d. This `code` **SHALL** contain exactly one [1..1] `@displayName="Stamkort"` (CONF-DK:108)
4. **SHALL** contain exactly one [1..1] `title` (CONF-DK:109).
 - a. This `title` **SHALL** always be set to "Personal Data Card for " concatenated with the citizen's CPR-number (CONF-DK:110).
5. **SHALL** contain exactly one [1..1] `effectiveTime` = the creation time of the PDC instance (CONF-DK:111)

2.1.1 author

The `author` element represents the creator of the clinical document. As the author of a PDC document is the "on-demand" service provided by the Danish Sundhedsdatastyrelsen, Sundhedsdatastyrelsen is written as the name of the author's represented organization.

In order to use the generated PDC CDA document in the Danish IHE/XDS infrastructure the `author.representedOrganization.name` element must exist in the header of the CDA.

6. The header of the PDC Document **SHALL** contain exactly one [1..1] `author` (CONF-DK:112).
 - a. This `author` **SHALL** contain exactly one [1..1] `time` (CONF-DK:113).
 - b. This `time` **SHALL** contain exactly one [1..1] `@value =` the creation time of the CDA instance (CONF-DK:114).
 - c. This `author` **SHALL** contain exactly one [1..1] `assignedAuthor` (CONF-DK:115).
 - d. This `assignedAuthor` **SHALL** contain exactly one [1..1] `id` (CONF-DK:116).
 - e. This `id` **SHALL** contain exactly one [1..1] `@root="1.2.208.176"` (CONF-DK:117).
 - f. This `id` **SHALL** contain exactly one [1..1] `@extension="NI"` (CONF-DK:118).
 - g. This `assignedAuthor` **SHALL** contain exactly one [1..1] `representedOrganization` (CONF-DK:119).
 - h. This `representedOrganization` **SHALL** contain exactly one [1..1] `name=Sundhedsdatastyrelsen` (CONF-DK:120).

The specification of the `author` element in the header is shown in Figure 1.

2.1.2 `dataEnterer`

The `dataEnterer` element may not be used in the PDC CDA Document (CONF-DK:121).

2.1.3 `informant`

The `informant` element may not be used in the PDC CDA Document (CONF-DK:122).

2.1.4 `custodian`

The `custodian` element represents the organization who is in charge of maintaining the document (e.g. a remote disease management organization (DMO)).

As Sundhedsdatastyrelsen is responsible for maintaining the "on-demand" service that generates the PDC Document, the name of the represented custodian organization is set to Sundhedsdatastyrelsen.

7. The header of the PDC Document **SHALL** contain exactly one [1..1] `custodian` (CONF-DK:123).
 - a. This `custodian` **SHALL** contain exactly one [1..1] `assignedCustodian` (CONF-DK:124).

- b. This `assignedCustodian` **SHALL** contain exactly one [1..1] `representedCustodianOrganization` (CONF-DK:125).
- c. This `representedCustodianOrganization` **SHALL** contain exactly one [1..1] `id` (CONF-DK:126).
- d. This `id` **SHALL** contain exactly one [1..1] `@root="1.2.208.176"` (CONF-DK:127).
- e. This `id` **SHALL** contain exactly one [1..1] `@extension="NI"` (CONF-DK:128).
- f. This `representedCustodianOrganization` **SHALL** contain exactly one [1..1] `name=Sundhedsdatastyrelsen` (CONF-DK:129).

The specification of the `custodian` element in the header is shown in Figure 1.

2.1.5 `informationRecipient`

The `informationRecipient` element may not be used (CONF-DK:130).

2.1.6 `legalAuthenticator`

The `legalAuthenticator` element may not be used (CONF-DK:131).

2.1.7 `authenticator`

The `authenticator` element may not be used (CONF-DK:132).

2.1.8 `participant`

The `participant` element may not be used (CONF-DK:133).

2.1.9 `documentationOf`

There are two always two `documentationOf` elements in a PDC 2.0 instance.

One `documentationOf` is holding the version of the PDC 2.0 instance and is described in the DK CDA Header document [DKHDR].

Another `documentationOf` holds the creation time of the PDC 2.0 instance as defined below:

This `documentationOf/serviceEvent/effectiveTime` declares the date and time when the service event took place i.e. when the on-demand instance of the PDC CDA took place.

8. The header of the PDC Document **SHALL** contain exactly [1..1] `documentationOf/serviceEvent/effectiveTime` (CONF-DK:134).
- This `effectiveTime` **SHALL** contain exactly one [1..1] `low` (CONF-DK:135).
 - This `low` **SHALL** contain exactly one [1..1] `@value` = the document creation time (CONF-DK:136).
 - This `effectiveTime` **SHALL** contain exactly one [1..1] `high` (CONF-DK:137).
 - This `high` **SHALL** contain exactly one [1..1] `@nullFlavor="NA"` (CONF-DK:138).

The specification of `documentationOf/serviceEvent/effectiveTime` element in the header is shown in Figure 1.

Figure 1: PDC 2.0 Header - Example

```
<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:hl7-org:v3 ../Schema/infrastructure/cda/CDA_SDTC.xsd"
  xmlns="urn:hl7-org:v3" moodCode="EVN">
  <realmCode code="DK"/>
  <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3"/>
  <!-- MedCom templateId for Personal Data Card -->
  <templateId root="1.2.208.184.16.1"/>
  <!-- Unik ID for this PDC instance -->
  <id assigningAuthorityName="MedCom" extension="7b1bcb3d-6edc-4855-808d-
  7bf7f65c7703"
    root="1.2.208.184"/>
  <code displayName="Stamkort" codeSystem="1.2.208.184.100.1" code="PDC"
    codeSystemName="MedCom Message Codes"/>
  <title>Personal Data Card for 2512489996 </title>
  <!-- Personal Data Card generated at: -->
  <effectiveTime value="20190808160510+0200"/>
  <confidentialityCode codeSystem="2.16.840.1.113883.5.25" code="N"/>
  <languageCode code="da-DK"/>

  <!-- This recordTarget identifies the patient and related information from CPR -->
  <!-- GP information is placed in the providerOrganization element -->
  <recordTarget contextControlCode="OP" typeCode="RCT">
    <patientRole classCode="PAT">
      <id assigningAuthorityName="CPR" extension="2512489996" root="1.2.208.176.1.2"/>
      <!-- This is the address from CPR -->
      <addr use="H">
        <streetAddressLine>Vedbæk Strandvej 464</streetAddressLine>
        <postalCode>7000</postalCode>
        <city>Fredericia</city>
        <country>DK</country>
      </addr>
      <patient classCode="PSN">
        <name>
          <given>Bente</given>
          <given>Kirkegård</given>
          <family>Knudsen</family>
        </name>
        <administrativeGenderCode codeSystem="2.16.840.1.113883.5.1" code="F"/>
      </patient>
    </recordTarget>
  </ClinicalDocument>
```

```

    <birthTime value="19481225000000+0000"/>
  </patient>
  <!-- GP from CPR: Identified by ydernummer, could also be identified by SOR-id -->
  <providerOrganization>
    <id extension="123456" root="1.2.208.176.1.4"
      assigningAuthorityName="Yderregisteret"/>
    <name>Testyder</name>
    <telecom use="WP" value="tel:+4512345678"/>
    <telecom value="mailto:test@testyder.dk"/>
    <addr use="H">
      <streetAddressLine>Ydervej 42</streetAddressLine>
      <postalCode>1234</postalCode>
      <city>Yderby</city>
    </addr>
  </providerOrganization>
</patientRole>
</recordTarget>

<!-- The author of this document is the FSK on-demand-service, identified by SDS -->
<author>
  <!-- time is set to document creating time=effectiveTime above-->
  <time value="20190808160510+0200"/>
  <assignedAuthor>
    <!-- id @root is set to SDS-root-->
    <id root="1.2.208.176" extension="NI"/>
    <representedOrganization>
      <name>Sundhedsdatastyrelsen</name>
    </representedOrganization>
  </assignedAuthor>
</author>

<!-- The custodian of this document is the FSK on-demand-service, identified by SDS -->
<custodian>
  <assignedCustodian>
    <representedCustodianOrganization>
      <!-- id @root is set to SDS-root-->
      <id root="1.2.208.176" extension="NI"/>
      <name>Sundhedsdatastyrelsen</name>
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>

<!--This documentationOf holds the creation time of this CDA instance -->
<documentationOf typeCode="DOC">
  <serviceEvent classCode="ACT" moodCode="EVN">
    <effectiveTime>
      <low value="20190808160510+0200"/>
      <high nullFlavor="NA"/>
    </effectiveTime>
  </serviceEvent>
</documentationOf>

<!--This documentationOf holds the version of the CDA-profile -->
<documentationOf typeCode="DOC">
  <serviceEvent classCode="ACT" moodCode="EVN">
    <!--This templateId tells that this serviceEvent holds the identification (pdc) and version
    (v2.0) of the CDA profile -->
    <templateId root="1.2.208.184.200.1.10" extension="2019-09-10"/>
  </serviceEvent>
</documentationOf>

```

```
<!--This id @extension equals the identification and version of the CDA profile-->
<id root="1.2.208.184.100.3" extension="pdc-v2.0"
assigningAuthorityName="MedCom"/>
</serviceEvent>
</documentationOf>
```

2.1.10 inFulfillmentOf

The `inFulfillmentOf` element may not be used (CONF-DK:139).

2.2 Rendering Header Information for Human Presentation

Good practice would recommend that the following information to be present whenever the personal data card document is viewed:

- Document title and document dates
- Names of all persons along with their roles, participations, participation date ranges, identifiers, address, and telecommunications information
- Names of selected organizations along with their roles, participations, participation date ranges, identifiers, address, and telecommunications information
- Personal data card details as specified in section 1.2.1.

Although the PDC is a CDA little emphasis should be placed on the narrative text element, because the CDA is generated on-demand and is not supposed be rendered in a browser.

3 DOCUMENT-LEVEL TEMPLATE

This chapter defines document-level template used in this Personal Data Card Document (PDC). Document-level templates describe the purpose and rules for constructing a conforming CDA document for its use case. Document templates include constraints on section-level templates which, in turn contain entry-level templates. Personal Data Card Document (PDC) template is a universal template, hence contains the minimum constraints. Base CDA constraints are not repeated if not further constrained.

3.1 PDC Document

[ClinicalDocument: templateId 1.2.208.184.16.1]

This template describes constraints that apply to the PDC Document containing a Personal Data Card.

This document-level template contains the following information:

- Description and explanatory narrative
- Template metadata (e.g., `templateId`, etc.)
- Header constraints
- The required section-level template

Table 2: Document-level Template - Constraints Overview

XPath	Card	Verb	Data Type	CONF#	Fixed Value
ClinicalDocument[templateId/@root = '1.2.208.184.16.1']					
component	1..1	SHALL		CONF-DK:140	
@typeCode	1..1	SHALL		CONF-DK:141	“COMP”
@contextConductionInd	1..1	SHALL		CONF-DK:142	“true”
structuredBody	1..1	SHALL		CONF-DK:143	
@classCode	1..1	SHALL		CONF-DK:144	“DOCBODY”
@moodCode	1..1	SHALL		CONF-DK:145	“EVN”
component	1..1	SHALL		CONF-DK:146	
@typeCode	1..1	SHALL		CONF-DK:147	“COMP”
@contextConductionInd	1..1	SHALL		CONF-DK:148	“true”
section	1..1	SHALL		CONF-DK:149	Section with additional information from registers and manually entered information (identifier: 1.2.208.184.16.1.10.20.1:2019-08-14)

1. This template **SHALL** contain exactly one [1..1] `component` (CONF-DK:140) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:141)
 - b. **SHALL** contain exactly one [1..1] @contextConductionInd="true" (CONF-DK:142)
2. This component **SHALL** contain exactly one [1..1] structuredBody (CONF-DK:143) such that it
 - a. **SHALL** contain exactly one [1..1] @classCode="DOCBODY" (CONF-DK:144)
 - b. **SHALL** contain exactly one [1..1] @moodCode="EVN" (CONF-DK:145)
3. This structuredBody **SHALL** contain exactly one [1..1] component (CONF-DK:146) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:147)
 - b. **SHALL** contain exactly one [1..1] @contextConductionInd="true" (CONF-DK:148)
4. This component **SHALL** contain exactly one [1..1] section (CONF-DK:149)

4 SECTION-LEVEL TEMPLATE

This section contains section-level templates used by the Personal data card Document in this Implementation Guide.

Each section-level template contains the following:

- Template metadata (e.g., `templateId`, etc.)
- Description
- Entry-level template names and Ids for referenced templates (required and optional)

4.1 Personal Data Card section of additional information from registers and manually entered information

This section contains additional information returned from registers and all information entered manually.

Table 3: Section-level Template - Constraints Overview

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	section (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1:2019-08-14)					
	@classCode	1..1	SHALL		CONF-DK:151	“DOCSECT”
	@moodCode	1..1	SHALL		CONF-DK:152	“EVN”
	templateId	1..1	SHALL		CONF-DK:153	
	@root	1..1	SHALL		CONF-DK:154	1.2.208.184.16.1.10.20.1
	@extension	1..1	SHALL		CONF-DK:155	2019-08-14
	text	1..1	SHALL		CONF-DK:156	Text element containing the narrative text or “Øvrige oplysninger”
	entry	0..*	MAY		CONF-DK:157	Custody element
	@typeCode	1..1	SHALL		CONF-DK:158	“COMP”
	observation	1..1	SHALL		CONF-DK:159	Observation of custody information returned from the CPR-register (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.23:2019-08-14)
	entry	1..1	SHALL		CONF-DK:163	Citizen name and address element
	@typeCode	1..1	SHALL		CONF-DK:164	“COMP”
	observation	1..1	SHALL		CONF-DK:165	Observation of citizen’s name and address returned from the CPR-register (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.26:2019-08-14)

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	entry	1..1	SHALL		CONF-DK:169	Citizen's coverage group element
	@typeCode	1..1	SHALL		CONF-DK:170	"COMP"
	observation	1..1	SHALL		CONF-DK:171	Observation of the citizen's coverage group returned from the CPR-register (identifier: urn:hl7ii:1.2.208.184.16.1.10.2 0.1.27:2019-08-14)
	entry	1..1	SHALL		CONF-DK:175	Citizen's organ donor registration element
	@typeCode	1..1	SHALL		CONF-DK:176	"COMP"
	observation	1..1	SHALL		CONF-DK:177	Observation of the citizen's organ donor registration returned from Dansk Center for Organ Donation (identifier: urn:hl7ii:1.2.208.184.16.1.10.2 0.1.28:2019-08-14)
	entry	1..1	SHALL		CONF-DK:181	Citizen's treatment will registration element
	@typeCode	1..1	SHALL		CONF-DK:182	"COMP"
	observation	1..1	SHALL		CONF-DK:183	Observation of the citizen's treatment will registration returned from Sundhedsdatastyrelsen (identifier: urn:hl7ii:1.2.208.184.16.1.10.2 0.1.29:2019-08-14)
	entry	1..1	SHALL		CONF-DK:187	Citizen's living will registration element
	@typeCode	1..1	SHALL		CONF-DK:188	"COMP"
	observation	1..1	SHALL		CONF-DK:189	Observation of the citizen's living will registration returned from Sundhedsdatastyrelsen (identifier: urn:hl7ii:1.2.208.184.16.1.10.2 0.1.30:2019-08-14)
	entry	0..1	MAY		CONF-DK:193	Language element
	@typeCode	1..1	SHALL		CONF-DK:194	"COMP"
	observation	1..1	SHALL		CONF-DK:195	Observation of manually entered spoken language (identifier: urn:hl7ii:1.2.208.184.16.1.10.2 0.1.20:2019-08-14)
	entry	0..1	MAY		CONF-DK:199	Temporary address element
	@typeCode	1..1	SHALL		CONF-DK:200	"COMP"
	observation	1..1	SHALL		CONF-DK:201	Observation of temporary address (identifier: urn:hl7ii:1.2.208.184.16.1.10.2 0.1.21:2019-08-14)
	entry	0..1	MAY		CONF-DK:205	Dentist element
	@typeCode	1..1	SHALL		CONF-DK:206	"COMP"
	observation	1..1	SHOULD		CONF-DK:207	Observation of manually entered dentist information

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
						(identifier: urn:hl7ii:1.2.208.184.16.1.10.2 0.1.22:2019-08-14)
	entry	0..1	MAY		CONF-DK:211	Contact element
	@typeCode	1..1	SHALL		CONF-DK:212	"COMP"
	observation	1..1	SHOULD		CONF-DK:213	Observation of manually entered contact information (identifier: urn:hl7ii:1.2.208.184.16.1.10.2 0.1.24:2019-08-14)
	entry	0..*	MAY		CONF-DK:217	Relative's element
	@typeCode	1..1	SHALL		CONF-DK:218	"COMP"
	observation	1..1	SHALL		CONF-DK:219	Observation of manually entered information about a Relative: urn:hl7ii:1.2.208.184.16.1.10.20.1.25:2019-08-14)

1. This template **SHALL** contain exactly one [1..1] section (CONF-DK:150) such that it
 - a. **SHALL** contain exactly one [1..1] @classCode="DOCSECT" (CONF-DK:151).
 - b. **SHALL** contain exactly one [1..1] @moodCode= "EVN" (CONF-DK:152).
2. This section **SHALL** contain exactly one [1..1] templateId (CONF-DK:153) such that it
 - a. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1" (CONF-DK:154).
 - b. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:155).
3. This section **SHALL** contain exactly one [1..1] text (CONF-DK:156).
3. This section **MAY** contain one or more [0..*] entry (CONF-DK:157) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:158).
 - b. **SHALL** contain exactly one [1..1] observation containing the citizen's custody information (CONF-DK:159).
 - c. This observation **SHALL** contain exactly one [1..1] templateId (CONF-DK:160) such that it
 - i. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.23" (CONF-DK:161).
 - ii. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:162).

4. This section **SHALL** contain exactly one [1..1] entry (CONF-DK:163) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:164).
 - b. **SHALL** contain exactly one [1..1] observation containing the citizen's name and address information (CONF-DK:165).
 - c. This observation **SHALL** contain exactly one [1..1] templateId (CONF-DK:166) such that it
 - i. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.26" (CONF-DK:167).
 - ii. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:168).

5. This section **SHALL** contain exactly one [1..1] entry (CONF-DK:169) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:170).
 - b. **SHALL** contain exactly one [1..1] observation containing the citizen's coverage group (CONF-DK:171).
 - c. This observation **SHALL** contain exactly one [1..1] templateId (CONF-DK:172) such that it
 - i. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.27" (CONF-DK:173).
 - ii. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:174).

6. This section **SHALL** contain exactly one [1..1] entry (CONF-DK:175) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:176).
 - b. **SHALL** contain exactly one [1..1] observation containing the citizen's organ donor registration (CONF-DK:177).
 - c. This observation **SHALL** contain exactly one [1..1] templateId (CONF-DK:178) such that it
 - i. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.28" (CONF-DK:179).
 - ii. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:180).

7. This section **SHALL** contain exactly one [1..1] entry (CONF-DK:181) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:182).
 - b. **SHALL** contain exactly one [1..1] observation containing the citizen's treatment will registration (CONF-DK:183).
 - c. This observation **SHALL** contain exactly one [1..1] templateId (CONF-DK:184) such that it

- i. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.29" (CONF-DK:185).
 - ii. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:186).
- 8. This section **SHALL** contain exactly one [1..1] entry (CONF-DK:187) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:188).
 - b. **SHALL** contain exactly one [1..1] observation containing the citizen's living will registration (CONF-DK:189).
 - c. This observation **SHALL** contain exactly one [1..1] templateId (CONF-DK:190) such that it
 - i. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.30" (CONF-DK:191).
 - ii. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:192).
- 9. This section **MAY** contain zero or one [0..1] entry (CONF-DK:193) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:194).
 - b. **SHALL** contain exactly one [1..1] observation containing the citizen's manually entered spoken language (CONF-DK:195).
 - c. This observation **SHALL** contain exactly one [1..1] templateId (CONF-DK:196) such that it
 - i. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.20" (CONF-DK:197).
 - ii. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:198).
- 10. This section **MAY** contain zero or one [0..1] entry (CONF-DK:199) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:200).
 - b. **SHALL** contain exactly one [1..1] observation containing the citizen's manually entered temporary address (CONF-DK:201).
 - c. This observation **SHALL** contain exactly one [1..1] templateId (CONF-DK:202) such that it
 - i. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.21" (CONF-DK:203).
 - ii. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:204).
- 11. This section **MAY** contain zero or one [0..1] entry (CONF-DK:205) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:206).
 - b. **SHALL** contain exactly one [1..1] observation containing the citizen's manually entered dentist information (CONF-DK:207).
 - c. This observation **SHALL** contain exactly one [1..1] templateId (CONF-DK:208) such that it
 - i. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.22" (CONF-DK:209).
 - ii. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:210).
12. This section **MAY** contain zero or one [0..1] entry (CONF-DK:211) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:212).
 - b. **SHALL** contain exactly one [1..1] observation containing the citizen's manually entered contact information (CONF-DK:213).
 - c. This observation **SHALL** contain exactly one [1..1] templateId (CONF-DK:214) such that it
 - i. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.24" (CONF-DK:215).
 - ii. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:216).
13. This section **MAY** contain zero or more [0..*] entry (CONF-DK:217) such that it
- d. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:218).
 - e. **SHALL** contain exactly one [1..1] observation containing the citizen's manually entered information about relative's (CONF-DK:219).
 - f. This observation **SHALL** contain exactly one [1..1] templateId (CONF-DK:220) such that it
 - iii. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.25" (CONF-DK:221).
 - iv. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:222).

5 ENTRY-LEVEL TEMPLATES

This part of the guide describes the entry level templates used within the sections of the Personal Data Card Document. Entry templates contain constraints that are required for conformance.

Each entry-level template description contains the following information:

- Key template metadata (e.g., `templateId`)
- Description and explanatory narrative.
- Required CDA observations, participants and vocabularies.
- Optional CDA observations, participants and vocabularies.

Entry-level templates also contain `id` element, which is an identifier for that entry. The `id` assigned must be globally unique.

5.1 Observation: Custody Information from CPR

This template represents custody information returned from the CPR register. This observation can be repeated as many times as needed.

This observation covers two scenarios, determined by the code element:

If code `@code = "ChildCustody"` this observation contains information about the child over whom the citizen has custody.

If code `@code = "CustodyBy"` this observation contains information about the adults who have custody over the citizen.

Table 4: Custody Information from CPR - Constraints overview

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	observation (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.23:2019-08-14)					
	<code>templateId</code>	1..1	SHALL		CONF-DK:223	
	<code>@root</code>	1..1	SHALL		CONF-DK:224	1.2.208.184.16.1.10.20.1.23
	<code>@extension</code>	1..1	SHALL		CONF-DK:225	2019-08-14
	<code>id</code>	1..1	SHALL		CONF-DK:226	Identification of this observation,
	<code>@root</code>	1..1	SHALL		CONF-DK:227	1.2.208.184 as example
	<code>@extension</code>	1..1	SHALL		CONF-DK:228	UUID version 4.
	<code>code</code>	1..1	SHALL		CONF-DK:229	
	<code>@code</code>	1..1	SHALL		CONF-DK:230	"ChildCustody" or "CustodyBy"
	<code>@codeSystem</code>	1..1	SHALL		CONF-DK:231	"1.2.208.184.100.1"
	<code>@codeSystemName</code>	1..1	SHALL		CONF-DK:232	"MedCom Message Codes"
	<code>@displayName</code>	1..1	SHALL		CONF-DK:233	If <code>@code = "ChildCustody"</code> then <code>@displayName= "Forældremyndighed over"</code>

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
						If @code = "CustodyBy" then @displayName = "Forældremyndighedshaver"
	value	1..1	SHALL		CONF-DK:234	CPR-number element
	@xsi:type	1..1	SHALL		CONF-DK:235	"II"
	@extension	1..1	SHALL		CONF-DK:236	If @code = "ChildCustody" then @extension = CPR-number of the child. If @code = "CustodyBy" then @extension = CPR-number of the adult.
	@root	1..1	SHALL		CONF-DK:237	"1.2.208.176.1.2"
	@assigningAuthorityName	1..1	SHALL		CONF-DK:238	"CPR"
	value	1..1	SHALL		CONF-DK:239	Name element
	@xsi:type	1..1	SHALL		CONF-DK:240	"PN"
	given	1..*	SHALL		CONF-DK:241	If @code = "ChildCustody" then @given = given name of the child. If @code = "CustodyBy" then @given = given name of the adult.
	family	1..1	SHALL		CONF-DK:242	If @code = "ChildCustody" then @family = Surname of the child. If @code = "CustodyBy" then @family = surname of the adult.
	value	1..1	SHALL		CONF-DK:243	Relative's relation code element
	@xsi:type	1..1	SHALL		CONF-DK:244	"CD"
	@code	1..1	SHALL		CONF-DK:245	The only valid relation codes are ["mor", "far", "anden"]
	@codeSystem	1..1	SHALL		CONF-DK:246	"1.2.208.184.100.2"
	@codeSystemName	1..1	SHALL		CONF-DK:247	"MedCom Relation Codes"
	@displayName	1..1	SHALL		CONF-DK:248	The only valid @displayName are ["Mor", "Far", "Anden relation"]
	author	1..1	SHALL		CONF-DK:249	Author of information returned from a register (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.31:2019-08-14)

1. This observation **SHALL** contain exactly one [1..1] **templateId** (CONF-DK:223) such that it
 - a. **SHALL** contain exactly one [1..1]
 - @root="1.2.208.184.16.1.10.20.1.23" (CONF-DK:224).
 - b. **SHALL** contain exactly one [1..1] extension="2019-08-14" (CONF-DK:225)
2. This observation **SHALL** contain exactly one [1..1] **id** (CONF-DK:226) such that it
 - a. **SHALL** contain exactly one [1..1] @root="1.2.208.184" (CONF-DK:227)
 - b. **SHALL** contain exactly one [1..1] @extension = UUID Version 4, a unique identification of this observation (CONF-DK:228)
3. This observation **SHALL** contain exactly one [1..1] **code** (CONF-DK:229) such that it
 - a. **SHALL** contain exactly one [1..1] @code="ChildCustody" or "CustodyBy" (CONF-DK:230)
 - b. **SHALL** contain exactly one [1..1]
 - @codeSystem="1.2.208.184.100.1" (CONF-DK:231)
 - c. **SHALL** contain exactly one [1..1]
 - @codeSystemName="MedCom Message Codes" (CONF-DK:232)
 - d. **SHALL** contain exactly one [1..1]
 - @displayName="Forældremyndighed over" or "Forældremyndighedshaver" (CONF-DK:233)
4. This observation **SHALL** contain at exactly one [1..1] value (CONF-DK:234) such that it
 - a. **SHALL** contain exactly one [1..1] @xsi:type="II" (CONF-DK:235)
 - b. **SHALL** contain exactly one [1..1] @extension = CPR-number of the child or the adult according to the rules in the table above (CONF-DK:236)
 - c. **SHALL** contain exactly one [1..1]
 - @root="1.2.208.176.1.2" (CONF-DK:237)
 - d. **SHALL** contain exactly one [1..1]
 - @assigningAuthorityName="CPR" (CONF-DK:238)
5. This observation **SHALL** contain exactly one [1..1] value (CONF-DK:239) such that it
 - a. **SHALL** contain exactly one [1..1] @xsi:type="PN" (CONF-DK:240)
 - b. **SHALL** contain one or more [1..*] given element=First name and middle names of the child or the adult according to the rules in the table above (CONF-DK:241)
 - c. **SHALL** contain exactly one [1..1] family element=Sir name of the child or the adult according to the rules in the table above (CONF-DK:242)
6. This observation **SHALL** contain exactly one [1..1] value (CONF-DK:243) such that it
 - a. **SHALL** contain exactly one [1..1] @xsi:type="CD" (CONF-DK:244)
 - b. **SHALL** contain exactly one [1..1] @code = "mor", "far" or "anden" (CONF-DK:245)
 - c. **SHALL** contain exactly one [1..1] @codeSystem = "1.2.208.184.100.2" (CONF-DK:246)

- d. **SHALL** contain exactly one [1..1] @codeSystemName="MedCom Relation Codes" (CONF-DK:247)
 - e. **SHALL** contain exactly one [1..1] @displayName = "Mor", "Far" or "Anden relation" (CONF-DK:248)
7. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:249)
- a. This author **SHALL** be specified as described in paragraph 5.13 (CONF-DK:250)

```

<!-- This example shows how to specify a child whom the patient has Custody over -->
<entry typeCode="COMP">
  <!-- observation of the patient's custody -->
  <observation classCode="OBS" moodCode="EVN">
    <!-- observation templateId for custody -->
    <templateId root="1.2.208.184.16.1.10.20.1.23" extension="2019-08-14"/>
    <id extension="2267197b-cd9a-4c04-a4b0-cfd91e639f98" root="1.2.208.184"/>
    <code code="ChildCustody" codeSystem="1.2.208.184.100.1"
      codeSystemName="MedCom Message Codes"
      displayName="Forældremyndighed over"/>
    <!-- Value representing the CPR of the child of whom the patient has custody -->
    <value xsi:type="II" root="1.2.208.176.1.2" extension="999999999"
      assigningAuthorityName="CPR"/>
    <!-- Value representing the name of the child of whom the patient has custody -->
    <value xsi:type="PN">
      <given>Peter</given>
      <given>Severin</given>
      <family>Knudsen</family>
    </value>
    <!-- Value representing the relationship the patient has to the child of whom the
patient have custody -->
    <value xsi:type="CD" code="mor" codeSystem="1.2.208.184.100.2"
      codeSystemName="MedCom Relation Codes" displayName="Mor"/>
    <!-- Author of this information is CPR -->
    <author>
      <!-- This templateId is the used when the author of information is a register -->
      <templateId root="1.2.208.184.16.1.10.20.31" extension="2019-08-14"/>
      <!-- time is unknown -->
      <time nullFlavor="NI"/>
      <assignedAuthor>
        <!-- id @root is set to CPR-root-->
        <id root="1.2.208.176.1.2" extension="NI" assigningAuthorityName="CPR"/>
        <!-- representedOrganization is mandatory when we don't have an authorPerson
-->
        <representedOrganization>
          <name>CPR</name>
        </representedOrganization>
      </assignedAuthor>
    </author>
  </observation>
</entry>

```

```

</observation>
</entry>

```

Figure 2: Custody Information from CPR – Example

5.2 Observation: Citizen’s Name and Address

This template represents the Citizen’s name and address. Although this observation is a duplicate of the citizen’s name and address in the recordTarget element, it is placed here to accommodate future modifications of the structure of the name and address elements.

Table 5: Citizen’s Name and Address – Constraints overview

Name	Xpath	Card	Verb	Data Type	CONF#	Fixed Value
	observation (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.26:2019-08-14)					
	templateId	1..1	SHALL		CONF-DK:251	
	@root	1..1	SHALL		CONF-DK:252	1.2.208.184.16.1.10.20.1.26
	@extension	1..1	SHALL		CONF-DK:253	2019-08-14
	id	1..1	SHALL		CONF-DK:254	Identification of this observation,
	@root	1..1	SHALL		CONF-DK:255	1.2.208.184
	@extension	1..1	SHALL		CONF-DK:256	UUID version 4.
	code	1..1	SHALL		CONF-DK:257	
	@code	1..1	SHALL		CONF-DK:258	“CitizenNameAddr”
	@codeSystem	1..1	SHALL		CONF-DK:258	“1.2.208.184.100.1”
	@codeSystemName	1..1	SHALL		CONF-DK:260	“MedCom Message Codes”
	@displayName	1..1	SHALL		CONF-DK:261	“Borgerens navn og adresse”
	value	1..1	SHALL		CONF-DK:262	Citizen’s name
	@xsi:type	1..1	SHALL		CONF-DK:263	“PN”
	given	1..*	SHALL		CONF-DK:264	Given name
	family	1..1	SHALL		CONF-DK:265	Surname
	value	0..1	MAY		CONF-DK:265A	The citizen may have a confidential address. This value element may only be present if the citizen has a confidential address
	@xsi:type	1..1	SHALL		CONF-DK:265B	“II”
	@root	1..1	SHALL		CONF-DK:265C	1.2.208.184.100.1
	@extension	1..1	SHALL		CONF-DK:265D	“ConfAddr”
	@assigningAuthorityName	1..1	SHALL		CONF-DK:265E	“MedCom”

Name	Xpath	Card	Verb	Data Type	CONF#	Fixed Value
	value	1..1	SHALL		CONF-DK:266	Citizen's Address
	@xsi:type	1..1	SHALL		CONF-DK:267	"AD"
	streetAddressLine	1..4	SHALL		CONF-DK:268	At least one streetAddressline must be specified. If the citizen has a confidential address the first streetAddressLine shall contain "Adressebeskyttelse" and streetAddressLine#2, #3 and #4 must not be present.
	postalCode	1..1	SHALL		CONF-DK:269	PostalCode If the citizen has a confidential address the postalCode shall contain nullFlavor="NI"
	city	1..1	SHALL		CONF-DK:270	City If the citizen has a confidential address the city shall contain nullFlavor="NI"
	country	1..1	SHALL		CONF-DK:271	Country ex. "Danmark" If the citizen has a confidential address the country shall contain nullFlavor="NI"
	author	1..1	SHALL		CONF-DK:272	Author of information returned from a register (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.31:2019-08-14)

8. This observation **SHALL** contain exactly one [1..1] **templateId** (CONF-DK:251) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184.16.1.10.20.1.26"** (CONF-DK:252).
 - b. **SHALL** contain exactly one [1..1] **extension="2019-08-14"** (CONF-DK:253)
9. This observation **SHALL** contain exactly one [1..1] **id** (CONF-DK:254) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184"** (CONF-DK:255)
 - b. **SHALL** contain exactly one [1..1] **@extension = UUID Version 4**, a unique identification of this observation (CONF-DK:256)
10. This observation **SHALL** contain exactly one [1..1] **code** (CONF-DK:257) such that it
 - a. **SHALL** contain exactly one [1..1] **@code="CitizenNameAddr"** (CONF-DK:258)

- b. **SHALL** contain exactly one [1..1] `@codeSystem="1.2.208.184.100.1"` (CONF-DK:259)
 - c. **SHALL** contain exactly one [1..1] `@codeSystemName="MedCom Message Codes"` (CONF-DK:260)
 - d. **SHALL** contain exactly one [1..1] `@displayName="Borgerens navn og adresse"` (CONF-DK:261)
11. This observation **SHALL** contain exactly one [1..1] value (CONF-DK:262) such that it
- a. **SHALL** contain exactly one [1..1] `@xsi:type="PN"` (CONF-DK:263)
 - b. **SHALL** contain one or more [1..*] given element=First name and middle names of the citizen (CONF-DK:264)
 - c. **SHALL** contain exactly one [1..1] family element=Sir name of the citizen (CONF-DK:265)
12. This observation **MAY** contain exactly one [1..1] value (CONF-DK:265A) such that it
- a. **SHALL** contain exactly one [1..1] `@xsi:type="II"` (CONF-DK:265B)
 - b. **SHALL** contain exactly one [1..1] `@root="1.2.208.184.100.1"` (CONF-DK:265C)
 - c. **SHALL** contain exactly one [1..1] `@extension="ConfAddr"` (CONF-DK:265D)
 - d. **SHALL** contain exactly one [1..1] `@ assigningAuthorityName="MedCom"` (CONF-DK:265E)
13. This observation **SHALL** contain exactly one [1..1] value (CONF-DK:266) such that it
- a. **SHALL** contain exactly one [1..1] `@xsi:type="AD"` (CONF-DK:267)
 - b. **SHALL** contain at least one [1..4] streetAddressLine=Street and house number of the citizen's address (CONF-DK:268)
 - c. **SHALL** contain exactly one [1..1] postalCode=Postal code of the citizen's address (CONF-DK:269)
 - d. **SHALL** contain exactly one [1..1] city=City of the citizen's address (CONF-DK:270)
 - e. **SHALL** contain exactly one [1..1] country=Country of the citizen's address (CONF-DK:271)
14. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:272)
- a. This author **SHALL** be specified as described in paragraph 5.13 (CONF-DK:273)

Figure 3: Citizen's name and address - Example

```

<!-- The citizen's name and address from CPR -->
<entry typeCode="COMP">
  <!-- observation of citizen's name and address, from CPR -->
  <observation classCode="OBS" moodCode="EVN">
    <!-- Observation templateId for citizen's name and address, from CPR -->
    <templateId root="1.2.208.184.16.1.10.20.1.26" extension="2019-08-14"/>
    <id extension="2d537144-57f9-46a2-b323-c4bd6f6c1a60" root="1.2.208.184"/>
  
```

```

        <code code="CitizenNameAddr" codeSystem="1.2.208.184.100.1"
            codeSystemName="MedCom Message Codes"
            displayName="Borgerens navn og adresse"/>
    <value xsi:type="PN">
        <given>Bente</given>
        <given>Kirkegård</given>
        <family>Knudsen</family>
    </value>
    <value xsi:type="AD" use="H">
        <streetAddressLine>Vedbæk Strandvej 464</streetAddressLine>
        <postalCode>7000</postalCode>
        <city>Fredericia</city>
        <country>DK</country>
    </value>
    <!-- Author of this register information is CPR -->
    <author>
        <!-- This templateId is the used when the author of information is a register -->
        <templateId root="1.2.208.184.16.1.10.20.31" extension="2019-08-14"/>
        <!-- time is unknown -->
        <time nullFlavor="NI"/>
        <assignedAuthor>
            <!-- id @root is set to CPR-root-->
            <id root="1.2.208.176.1.2" extension="NI"
                assigningAuthorityName="CPR"/>
            <!-- representedOrganization is mandatory when we don't have an
            authorPerson -->
            <representedOrganization>
                <name>CPR</name>
            </representedOrganization>
        </assignedAuthor>
    </author>
</observation>
</entry>

```

Figure 4: Citizen's Name and confidential address - Example

```

<!-- The citizen's name and address from CPR -->
<entry typeCode="COMP">
    <!-- observation of citizen's name and address, from CPR -->
    <observation classCode="OBS" moodCode="EVN">
        <!-- Observation templateId for citizen's name and address, from CPR -->
        <templateId root="1.2.208.184.16.1.10.20.1.26" extension="2019-08-14"/>
        <id extension="2d537144-57f9-46a2-b323-c4bd6f6c1a60"
            root="1.2.208.184"/>
        <code code="CitizenNameAddr" codeSystem="1.2.208.184.100.1"
            codeSystemName="MedCom Message Codes"
            displayName="Borgerens navn og adresse"/>
        <value xsi:type="PN">
            <given>Bente</given>
            <given>Kirkegård</given>
            <family>Knudsen</family>
        </value>
    </observation>
</entry>

```

```

</value>
<!-- This id is present if the address from CPR is marked as confidential
(Danish: Adressebeskyttelse)-->
<value xsi:type="II" assigningAuthorityName="MedCom"
extension="ConfAddr" root="1.2.208.184.100.1"/>
<value xsi:type="AD" use="H">
<streetAddressLine>Adressebeskyttelse</streetAddressLine>
<postalCode nullFlavor="NI"/>
<city nullFlavor="NI"/>
<country nullFlavor="NI"/>
</value>
<!-- Author of this register information is CPR -->
<author>
<!-- This templateId is the used when the author of information is a
register -->
<templateId root="1.2.208.184.16.1.10.20.31" extension="2019-08-14"/>
<!-- time is unknown -->
<time nullFlavor="NI"/>
<assignedAuthor>
<!-- id @root is set to CPR-root-->
<id root="1.2.208.176.1.2" extension="NI"
assigningAuthorityName="CPR"/>
<!-- representedOrganization is mandatory when we don't have an
authorPerson -->
<representedOrganization>
<name>CPR</name>
</representedOrganization>
</assignedAuthor>
</author>
</observation>
</entry>

```

5.3 Observation: Citizen's Coverage Group from CPR

This template represents the Citizen's coverage group returned from the CPR register.

Table 6: Citizen's Coverage Group from CPR - Constraints overview

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	observation (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.27:2019-08-14)					
	templateId	1..1	SHALL		CONF-DK:274	
	@root	1..1	SHALL		CONF-DK:275	1.2.208.184.16.1.10.20.1.27
	@extension	1..1	SHALL		CONF-DK:276	2019-08-14
	id	1..1	SHALL		CONF-DK:277	Identification of this observation,
	@root	1..1	SHALL		CONF-DK:278	1.2.208.184
	@extension	1..1	SHALL		CONF-DK:279	UUID version 4.
	code	1..1	SHALL		CONF-DK:280	

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	@code	1..1	SHALL		CONF-DK:281	"CoverageGroup"
	@codeSystem	1..1	SHALL		CONF-DK:282	"1.2.208.184.100.1"
	@codeSystemName	1..1	SHALL		CONF-DK:283	"MedCom Message Codes"
	@displayName	1..1	SHALL		CONF-DK:284	"Sygesikringsgruppe"
	value	1..1	SHALL		CONF-DK:285	
	@xsi:type	1..1	SHALL		CONF-DK:286	"II"
	@extension	1..1	SHALL		CONF-DK:287	Coverage group from CPR selected from value set 6.4
	@root	1..1	SHALL		CONF-DK:288	"1.2.208.176.2.7"
	@assigningAuthorityName	1..1	SHALL		CONF-DK:289	"Sygesikringen"
	author	1..1	SHALL		CONF-DK:290	Author of information returned from a register (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.31:2019-08-14)

1. This observation **SHALL** contain exactly one [1..1] **templateId** (CONF-DK:274) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="1.2.208.184.16.1.10.20.1.27" (CONF-DK:275).
 - b. **SHALL** contain exactly one [1..1] **extension**="2019-08-14" (CONF-DK:276)
2. This observation **SHALL** contain exactly one [1..1] **id** (CONF-DK:277) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="1.2.208.184" (CONF-DK:278)
 - b. **SHALL** contain exactly one [1..1] **@extension** = UUID Version 4, a unique identification of this observation (CONF-DK:279)
3. This observation **SHALL** contain exactly one [1..1] **code** (CONF-DK:280) such that it
 - a. **SHALL** contain exactly one [1..1] **@code**="CoverageGroup" (CONF-DK:281)
 - b. **SHALL** contain exactly one [1..1] **@codeSystem**="1.2.208.184.100.1" (CONF-DK:282)
 - c. **SHALL** contain exactly one [1..1] **@codeSystemName**="MedCom Message Codes" (CONF-DK:283)
 - d. **SHALL** contain exactly one [1..1] **@displayName**="Sygesikringsgruppe" (CONF-DK:284)
4. This observation **SHALL** contain exactly one [1..1] **value** (CONF-DK:285) such that it

- a. **SHALL** contain exactly one [1..1] @xsi:type="II" (CONF-DK:286)
 - b. **SHALL** contain exactly one [1..1] @extension = Coverage Group selected from value set 6.4 (CONF-DK:287)
 - c. **SHALL** contain exactly one [1..1] @root="1.2.208.176.2.7" (CONF-DK:288).
 - d. **SHALL** contain exactly one [1..1] @assigningAuthorityName="Sygesikringen" (CONF-DK:289).
5. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:290)
- a. This author **SHALL** be specified as described in paragraph 5.13 (CONF-DK:291)

Figure 5: Citizen's Coverage Group from CPR - Example

```

<!-- The citizen's coverage group (Sygesikringsgruppe) from CPR -->
<entry typeCode="COMP">
  <!-- observation of citizen's coverage group (Sygesikringsgruppe), from CPR -->
  <observation classCode="OBS" moodCode="EVN">
    <!-- Observation templateId for citizen's coverage group, from CPR -->
    <templateId root="1.2.208.184.16.1.10.20.1.27" extension="2019-08-14"/>
    <id extension="f7272633-2c06-4fee-9d81-1199f03ba569" root="1.2.208.184"/>
    <code code="CoverageGroup" codeSystem="1.2.208.184.100.1"
          codeSystemName="MedCom Message Codes"
          displayName="Sygesikringsgruppe"/>
    <!-- We need a correct OID for the following authority: Sygesikringen-->
    <value xsi:type="II" root="1.2.208.176.2.7" extension="1"
          assigningAuthorityName="Sygesikringen"/>
    <!-- Author of this information is sygesikringen -->
    <author>
      <!-- This templateId is the used when the author of information is a register -->
      <templateId root="1.2.208.184.16.1.10.20.31" extension="2019-08-14"/>
      <!-- time is unknown -->
      <time nullFlavor="NI"/>
      <assignedAuthor>
        <!-- id @root is set to Sygesikringen -->
        <id root="1.2.208.176.2.7" extension="NI"
          assigningAuthorityName="Sygesikringen"/>
        <!-- representedOrganization is mandatory when we don't have an
        authorPerson -->
        <representedOrganization>
          <name>Sygesikringen</name>
        </representedOrganization>
      </assignedAuthor>
    </author>
  </observation>
</entry>

```

5.4 Observation: Citizen's Registration as Organ Donor

This template represents whether the Citizen is registered as an organ donor or not.

Table 7: Citizen's Registration as Organ Donor - Constraints overview

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	observation (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.28:2019-08-14)					
	templateId	1..1	SHALL		CONF-DK:292	
	@root	1..1	SHALL		CONF-DK:293	1.2.208.184.16.1.10.20.1.28
	@extension	1..1	SHALL		CONF-DK:294	2019-08-14
	id	1..1	SHALL		CONF-DK:295	Identification of this observation,
	@root	1..1	SHALL		CONF-DK:296	1.2.208.184
	@extension	1..1	SHALL		CONF-DK:297	UUID version 4.
	code	1..1	SHALL		CONF-DK:298	
	@code	1..1	SHALL		CONF-DK:299	"OrganDonorRegistration"
	@codeSystem	1..1	SHALL		CONF-DK:300	"1.2.208.184.100.1"
	@codeSystemName	1..1	SHALL		CONF-DK:301	"MedCom Message Codes"
	@displayName	1..1	SHALL		CONF-DK:302	"Registreret organdonor"
	value	1..1	SHALL		CONF-DK:303	
	@xsi:type	1..1	SHALL		CONF-DK:304	"II"
	@extension	1..1	SHALL		CONF-DK:305	"true" = Citizen is a registered donor "false" = Citizen is NOT a registered donor
	@root	1..1	SHALL		CONF-DK:306	"1.2.208.176.1.10"
	@assigningAuthorityName	1..1	SHALL		CONF-DK:307	"Dansk Center For Organdonation"
	author	1..1	SHALL		CONF-DK:308	Author of information returned from a register (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.31:2019-08-14)

1. This observation **SHALL** contain exactly one [1..1] **templateId** (CONF-DK:292) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184.16.1.10.20.1.28"** (CONF-DK:293).
 - b. **SHALL** contain exactly one [1..1] **extension="2019-08-14"** (CONF-DK:294)
2. This observation **SHALL** contain exactly one [1..1] **id** (CONF-DK:295) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184"** (CONF-DK:296)

- b. **SHALL** contain exactly one [1..1] `@extension = UUID Version 4`, a unique identification of this observation (CONF-DK:297)
3. This observation **SHALL** contain exactly one [1..1] code (CONF-DK:298) such that it
 - a. **SHALL** contain exactly one [1..1] `@code="OrganDonorRegistration"` (CONF-DK:299)
 - b. **SHALL** contain exactly one [1..1] `@codeSystem="1.2.208.184.100.1"` (CONF-DK:300)
 - c. **SHALL** contain exactly one [1..1] `@codeSystemName="MedCom Message Codes"` (CONF-DK:301)
 - d. **SHALL** contain exactly one [1..1] `@displayName="Registreret organdonor"` (CONF-DK:302)
4. This observation **SHALL** contain exactly one [1..1] value (CONF-DK:303) such that it
 - a. **SHALL** contain exactly one [1..1] `@xsi:type="II"` (CONF-DK:304)
 - b. **SHALL** contain exactly one [1..1] `@extension = "true" or "false"` (CONF-DK:305)
 - c. **SHALL** contain exactly one [1..1] `@root="1.2.208.176.1.10"` (CONF-DK:306)
 - d. **SHALL** contain exactly one [1..1] `@assigningAuthorityName="Dansk Center For Organdonation"` (CONF-DK:307)
5. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:308)
 - a. This author **SHALL** be specified as described in paragraph 5.13 (CONF-DK:309)

Figure 6: Citizen's Registration as Organ Donor - Example

```

<!-- The citizen's Organ Donor Registration -->
<entry typeCode="COMP">
  <!-- observation of citizen's Organ Donor Registration -->
  <observation classCode="OBS" moodCode="EVN">
    <!-- Observation templateId for citizen's Organ Donor Registration -->
    <templateId root="1.2.208.184.16.1.10.20.1.28" extension="2019-08-14"/>
    <id extension="bf5b7087-b8dd-41f3-91c8-d2e0a8955c3a"
    root="1.2.208.184"/>
    <code code="OrganDonorRegistration" codeSystem="1.2.208.184.100.1"
    codeSystemName="MedCom Message Codes"
    displayName="Registreret organdonor"/>
    <value xsi:type="II" root="1.2.208.176.1.10" extension="false"
    assigningAuthorityName="Dansk Center For
    Organdonation"/>
    <!-- Author of this information is Danish Organ Donor Register -->
    <author>
      <!-- This templateId is the used when the author of information is a
      register -->
      <templateId root="1.2.208.184.16.1.10.20.31" extension="2019-08-14"/>
      <!-- time is unknown -->

```

```

<time nullFlavor="NI"/>
<assignedAuthor>
  <!-- id @root is set to Danish Organ Donor Register -->
  <id root="1.2.208.176.1.10" extension="NI"
assigningAuthorityName="Dansk Center For Organdonation"/>
  <!-- representedOrganization is mandatory when we don't have an
authorPerson -->
  <representedOrganization>
    <name>Dansk Center For Organdonation</name>
  </representedOrganization>
</assignedAuthor>
</author>
</observation>
</entry>

```

5.5 Observation: Citizen's Treatment Will Registration

This template represents whether the Citizen has registered a treatment will or not.

Table 8: Citizen's Treatment Will Registration - Constraints overview

Name	Xpath	Card	Verb	Data Type	CONF#	Fixed Value
	observation (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.29:2019-08-14)					
	templateId	1..1	SHALL		CONF-DK:310	
	@root	1..1	SHALL		CONF-DK:311	1.2.208.184.16.1.10.20.1.29
	@extension	1..1	SHALL		CONF-DK:312	2019-08-14
	id	1..1	SHALL		CONF-DK:313	Identification of this observation,
	@root	1..1	SHALL		CONF-DK:314	1.2.208.184
	@extension	1..1	SHALL		CONF-DK:315	UUID version 4.
	code	1..1	SHALL		CONF-DK:316	
	@code	1..1	SHALL		CONF-DK:317	"TreatmentWillRegistration"
	@codeSystem	1..1	SHALL		CONF-DK:318	"1.2.208.184.100.1"
	@codeSystemName	1..1	SHALL		CONF-DK:319	"MedCom Message Codes"
	@displayName	1..1	SHALL		CONF-DK:320	"Registreret behandlingstestamente"
	value	1..1	SHALL		CONF-DK:321	
	@xsi:type	1..1	SHALL		CONF-DK:322	"II"
	@extension	1..1	SHALL		CONF-DK:323	"true" = Citizen has registered a treatment will "false" = Citizen has NOT registered a treatment will
	@root	1..1	SHALL		CONF-DK:324	"1.2.208.176.1.9"

Name	Xpath	Card	Verb	Data Type	CONF#	Fixed Value
	@assigningAuthorityName	1..1	SHALL		CONF-DK:325	"Sundhedsdatastyrelsen"
	author	1..1	SHALL		CONF-DK:326	Author of information returned from a register (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.31:2019-08-14)

1. This observation **SHALL** contain exactly one [1..1] **templateId** (CONF-DK:310) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184.16.1.10.20.1.29"** (CONF-DK:311).
 - b. **SHALL** contain exactly one [1..1] **extension="2019-08-14"** (CONF-DK:312)
2. This observation **SHALL** contain exactly one [1..1] **id** (CONF-DK:313) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184"** (CONF-DK:314)
 - b. **SHALL** contain exactly one [1..1] **@extension = UUID Version 4, a unique identification of this observation** (CONF-DK:315)
3. This observation **SHALL** contain exactly one [1..1] **code** (CONF-DK:316) such that it
 - a. **SHALL** contain exactly one [1..1] **@code="TreatmentWillRegistration"** (CONF-DK:317)
 - b. **SHALL** contain exactly one [1..1] **@codeSystem="1.2.208.184.100.1"** (CONF-DK:318)
 - c. **SHALL** contain exactly one [1..1] **@codeSystemName="MedCom Message Codes"** (CONF-DK:319)
 - d. **SHALL** contain exactly one [1..1] **@displayName="Registreret behandlingstestamente"** (CONF-DK:320)
4. This observation **SHALL** contain exactly one [1..1] **value** (CONF-DK:321) such that it
 - a. **SHALL** contain exactly one [1..1] **@xsi:type="II"** (CONF-DK:322)
 - b. **SHALL** contain exactly one [1..1] **@extension = "true" or "false"** (CONF-DK:323)
 - c. **SHALL** contain exactly one [1..1] **@root="1.2.208.176.1.9"** (CONF-DK:324)
 - d. **SHALL** contain exactly one [1..1] **@assigningAuthorityName="Sundhedsdatastyrelsen"** (CONF-DK:325)
5. This observation **SHALL** contain exactly one [1..1] **author** (CONF-DK:326)
 - a. This author **SHALL** be specified as described in paragraph 5.13 (CONF-DK:327)

Figure 7: Citizen’s Treatment Will Registration - Example

```

<!-- The citizen's Treatment Will Registration -->
<entry typeCode="COMP">
  <!-- observation of citizen's Treatment Will Registration -->
  <observation classCode="OBS" moodCode="EVN">
    <!-- Observation templateId for citizen's Treatment Will Registration -->
    <templateId root="1.2.208.184.16.1.10.20.1.29" extension="2019-08-14"/>
    <id extension="88423bf2-96c4-4df7-a36e-e55f7c02714b" root="1.2.208.184"/>
    <code code="TreatmentWillRegistration" codeSystem="1.2.208.184.100.1"
          codeSystemName="MedCom Message Codes"
          displayName="Registreret behandlingstestamente"/>
    <value xsi:type="II" root="1.2.208.176.1.9" extension="false"
          assigningAuthorityName="Sundhedsdatastyrelsen"/>
    <!-- Author of this information is a register at Sundhedsdatastyrelsen -->
    <author>
      <!-- This templateId is the used when the author of information is a register -->
      <templateId root="1.2.208.184.16.1.10.20.31" extension="2019-08-14"/>
      <!-- time is unknown -->
      <time nullFlavor="NI"/>
      <assignedAuthor>
        <!-- id @root is set to 1.2.208.176.1.9 -->
        <id root="1.2.208.176.1.9" extension="NI"
          assigningAuthorityName="Sundhedsdatastyrelsen"/>
        <!-- representedOrganization is mandatory when we don't have an
        authorPerson -->
        <representedOrganization>
          <name>Sundhedsdatastyrelsen</name>
        </representedOrganization>
      </assignedAuthor>
    </author>
  </observation>
</entry>

```

5.6 Observation: Citizen’s Living Will Registration

This template represents whether the Citizen has registered a living will or not.

Table 9: Citizen’s Living Will Registration - Constraints overview

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
observation	(identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.30:2019-08-14)					
templateId		1..1	SHALL		CONF-DK:328	

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	@root	1..1	SHALL		CONF-DK:329	1.2.208.184.16.1.10.20.1.30
	@extension	1..1	SHALL		CONF-DK:330	2019-08-14
	id	1..1	SHALL		CONF-DK:331	Identification of this observation,
	@root	1..1	SHALL		CONF-DK:332	1.2.208.184
	@extension	1..1	SHALL		CONF-DK:333	UUID version 4.
	code	1..1	SHALL		CONF-DK:334	
	@code	1..1	SHALL		CONF-DK:335	"LivingWillRegistration"
	@codeSystem	1..1	SHALL		CONF-DK:336	"1.2.208.184.100.1"
	@codeSystemName	1..1	SHALL		CONF-DK:337	"MedCom Message Codes"
	@displayName	1..1	SHALL		CONF-DK:338	"Registreret livstestamente"
	value	1..1	SHALL		CONF-DK:339	
	@xsi:type	1..1	SHALL		CONF-DK:340	"II"
	@extension	1..1	SHALL		CONF-DK:341	"true" = Citizen has registered a living will "false" = Citizen has NOT registered a living will
	@root	1..1	SHALL		CONF-DK:342	"1.2.208.176.1.8"
	@assigningAuthorityName	1..1	SHALL		CONF-DK:343	"Sundhedsdatastyrelsen"
	author	1..1	SHALL		CONF-DK:344	Author of information returned from a register (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.31:2019-08-14)

6. This observation **SHALL** contain exactly one [1..1] **templateId** (CONF-DK:328) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="1.2.208.184.16.1.10.20.1.30" (CONF-DK:329).
 - b. **SHALL** contain exactly one [1..1] **extension**="2019-08-14" (CONF-DK:330)
7. This observation **SHALL** contain exactly one [1..1] **id** (CONF-DK:331) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="1.2.208.184" (CONF-DK:332)
 - b. **SHALL** contain exactly one [1..1] **@extension** = UUID Version 4, a unique identification of this observation (CONF-DK:333)
8. This observation **SHALL** contain exactly one [1..1] **code** (CONF-DK:334) such that it
 - a. **SHALL** contain exactly one [1..1] **@code**="LivingWillRegistration" (CONF-DK:335)
 - b. **SHALL** contain exactly one [1..1] **@codeSystem**="1.2.208.184.100.1" (CONF-DK:336)

- c. **SHALL** contain exactly one [1..1] `@codeSystemName="MedCom Message Codes"` (CONF-DK:337)
 - d. **SHALL** contain exactly one [1..1] `@displayName="Registreret livstestamente"` (CONF-DK:338)
9. This observation **SHALL** contain exactly one [1..1] value (CONF-DK:339) such that it
- a. **SHALL** contain exactly one [1..1] `@xsi:type="II"` (CONF-DK:340)
 - b. **SHALL** contain exactly one [1..1] `@extension = "true"` or `"false"` (CONF-DK:341)
 - c. **SHALL** contain exactly one [1..1] `@root="1.2.208.176.1.8"` (CONF-DK:342)
 - d. **SHALL** contain exactly one [1..1] `@assigningAuthorityName="Sundhedsdatastyrelsen"` (CONF-DK:343)
10. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:344)
- a. This author **SHALL** be specified as described in paragraph 5.13 (CONF-DK:345)

Figure 8: Citizen's Living Will Registration - Example

```

<!-- The citizen's Living Will Registration -->
<entry typeCode="COMP">
  <!-- observation of citizen's Living Will Registration -->
  <observation classCode="OBS" moodCode="EVN">
    <!-- Observation templateId for citizen's Living Will Registration -->
    <templateId root="1.2.208.184.16.1.10.20.1.30" extension="2019-08-14"/>
    <id extension="7d2a50a0-dbf9-443c-8759-3574bed1dd1b" root="1.2.208.184"/>
    <code code="LivingWillRegistration" codeSystem="1.2.208.184.100.1"
      codeSystemName="MedCom Message Codes"
      displayName="Registreret livstestamente"/>
    <value xsi:type="II" root="1.2.208.176.1.8" extension="true"
      assigningAuthorityName="Sundhedsdatastyrelsen"/>
    <!-- Author of this information is register at Sundhedsdatastyrelsen -->
    <author>
      <!-- This templateId is the used when the author of information is a register -->
      <templateId root="1.2.208.184.16.1.10.20.31" extension="2019-08-14"/>
      <!-- time is unknown -->
      <time nullFlavor="NI"/>
      <assignedAuthor>
        <!-- id @root is set to Sundhedsdatastyrelsen -->
        <id root="1.2.208.176.1.8" extension="NI"
          assigningAuthorityName="Sundhedsdatastyrelsen"/>
        <!-- representedOrganization is mandatory when we don't have an authorPerson
        -->
        <representedOrganization>
          <name>Sundhedsdatastyrelsen</name>
        </representedOrganization>
      </assignedAuthor>
    </author>
  </observation>

```

</entry>

5.7 Observation: Manually Entered Spoken Language

This template represents manually entered information about the citizen's spoken language.

Table 10: Manually Entered Spoken Language - Constraints Overview

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	observation (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.20:2019-08-14)					
	templateId	1..1	SHALL		CONF-DK:346	
	@root	1..1	SHALL		CONF-DK:347	1.2.208.184.16.1.10.20.1.20
	@extension	1..1	SHALL		CONF-DK:348	2019-08-14
	id	1..1	SHALL		CONF-DK:349	Identification of this observation,
	@root	1..1	SHALL		CONF-DK:350	1.2.208.184
	@extension	1..1	SHALL		CONF-DK:351	UUID version 4.
	code	1..1	SHALL		CONF-DK:352	
	@code	1..1	SHALL		CONF-DK:353	"LanguageTypedIn"
	@codeSystem	1..1	SHALL		CONF-DK:354	"1.2.208.184.100.1"
	@codeSystemName	1..1	SHALL		CONF-DK:355	"MedCom Message Codes"
	@displayName	1..1	SHALL		CONF-DK:356	"Talt sprog, indtastet"
	value	1..1	SHALL		CONF-DK:357	
	@xsi:type	1..1	SHALL		CONF-DK:358	"CD"
	@code	1..1	SHALL		CONF-DK:359	LanguageCode, ex. "de"
	@codeSystem	1..1	SHALL		CONF-DK:360	"1.0.639.1"
	@codeSystemName	1..1	SHALL		CONF-DK:361	"ISO-639-1"
	@displayName	1..1	SHALL		CONF-DK:362	ex. "Tysk"
	author	1..1	SHALL		CONF-DK:363	Author participation, information entered by (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.30:2019-08-14)

1. This observation **SHALL** contain exactly one [1..1] **templateId** (CONF-DK:346) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184.16.1.10.20.1.20"** (CONF-DK:347).

- b. **SHALL** contain exactly one [1..1] extension="2019-08-14" (CONF-DK:348).
 2. This observation **SHALL** contain exactly one [1..1] id (CONF-DK:349) such that it
 - a. **SHALL** contain exactly one [1..1] @root="1.2.208.184" (CONF-DK:350)
 - b. **SHALL** contain exactly one [1..1] @extension = UUID Version 4, a unique identification of this observation (CONF-DK:351)
 3. This observation **SHALL** contain exactly one [1..1] code (CONF-DK:352) such that it
 - a. **SHALL** contain exactly one [1..1] @code="LanguageTypedIn" (CONF-DK:353)
 - b. **SHALL** contain exactly one [1..1] @codeSystem="1.2.208.184.100.1" (CONF-DK:354)
 - c. **SHALL** contain exactly one [1..1] @codeSystemName="MedCom Message Codes" (CONF-DK:355)
 - d. **SHALL** contain exactly one [1..1] @displayName="Talt sprog, indtastet" (CONF-DK:356)
 4. This observation **SHALL** contain exactly one [1..1] value (CONF-DK:357) such that it
 - a. **SHALL** contain exactly one [1..1] @xsi:type="CD" (CONF-DK:358)
 - b. **SHALL** contain exactly one [1..1] @code=Language code, selected from codesystem ISO-639-1 (CONF-DK:359)
 - c. **SHALL** contain exactly one [1..1] @codeSystem="1.0.639.1" (CONF-DK:360)
 - d. **SHALL** contain exactly one [1..1] @codeSystemName="ISO-639-1" (CONF-DK:361)
 - e. **SHALL** contain exactly one [1..1] @displayName=Language code in Danish translation (CONF-DK:362)
 5. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:363)
 - a. This author **SHALL** be specified as described in paragraph 5.12 (CONF-DK:364)

Figure 9: Manually Entered Spoken Language - Example

```

<!-- The citizen's spoken language, typed in -->
<entry typeCode="COMP">
  <!-- observation of spoken language -->
  <observation classCode="OBS" moodCode="EVN">
    <!-- observation templateId for spoken language, typed in -->
    <templateId root="1.2.208.184.16.1.10.20.1.20" extension="2019-08-14"/>
    <id extension="2267197b-cd9a-4c04-a4b0-cfd91e639f98" root="1.2.208.184"/>
    <code code="LanguageTypedIn" codeSystem="1.2.208.184.100.1"
      codeSystemName="MedCom Message Codes" displayName="Talt sprog, indtastet"/>
    <value xsi:type="CD" code="de" codeSystem="1.0.639.1"
      codeSystemName="ISO-639-1" displayName="Tysk"/>
    <author>
      <time value="20190808160310+0200"/>
      <assignedAuthor>
        <id assigningAuthorityName="CPR" extension="2512484916"

```

```

    root="1.2.208.176.1.2"/>
    <assignedPerson>
      <name>
        <given>Bente</given>
        <given>Kirkegård</given>
        <family>Knudsen</family>
      </name>
    </assignedPerson>
  </assignedAuthor>
</author>
</observation>
</entry>

```

5.8 Observation: Manually Entered Temporary Address

This template represents manually entered information about the citizen's temporary address. The citizen can only have one temporary address.

Table 11: Manually Entered Temporary Address - Constraints Overview

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	observation (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.21:2019-08-14)					
	templateId	1..1	SHALL		CONF-DK:365	
	@root	1..1	SHALL		CONF-DK:366	1.2.208.184.16.1.10.20.1.21
	@extension	1..1	SHALL		CONF-DK:367	2019-08-14
	id	1..1	SHALL		CONF-DK:368	Identification of this observation,
	@root	1..1	SHALL		CONF-DK:369	1.2.208.184 as example
	@extension	1..1	SHALL		CONF-DK:370	UUID version 4.
	code	1..1	SHALL		CONF-DK:371	
	@code	1..1	SHALL		CONF-DK:372	"TempAddrTypedIn"
	@codeSystem	1..1	SHALL		CONF-DK:373	"1.2.208.184.100.1"
	@codeSystemName	1..1	SHALL		CONF-DK:374	"MedCom Message Codes"
	@displayName	1..1	SHALL		CONF-DK:375	"Midlertidig adresse, indtastet"
	effectiveTime	1..1	SHALL		CONF-DK:376	Temporary address use period
	low	1..1	SHALL		CONF-DK:377	From date
	@value	1..1	SHALL		CONF-DK:378	YYYYMMDD000000+Offset If unknown use nullFlavor="NI"
	high	0..1	SHOULD		CONF-DK:379	To date
	@value	1..1	SHOULD		CONF-DK:380	YYYYMMDD000000+Offset If unknown use nullFlavor="NI"
	value	1..1	SHALL		CONF-DK:381	Temporary Address
	@xsi:type	1..1	SHALL		CONF-DK:382	"AD"

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	streetAddressLine	1..4	SHALL		CONF-DK:383	At least one streetAddressline must be specified
	postalCode	1..1	SHALL		CONF-DK:384	PostalCode
	city	1..1	SHALL		CONF-DK:385	City
	country	1..1	SHALL		CONF-DK:386	Country ex. "Danmark"
	author	1..1	SHALL		CONF-DK:387	Author participation, information entered by (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.30:2019-08-14)

1. This observation **SHALL** contain exactly one [1..1] **templateId** (CONF-DK:365) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184.16.1.10.20.1.21"** (CONF-DK:366).
 - b. **SHALL** contain exactly one [1..1] **extension="2019-08-14"** (CONF-DK:367)
2. This observation **SHALL** contain exactly one [1..1] **id** (CONF-DK:368) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184"** (CONF-DK:369)
 - b. **SHALL** contain exactly one [1..1] **@extension = UUID Version 4, a unique identification of this observation** (CONF-DK:370)
3. This observation **SHALL** contain exactly one [1..1] **code** (CONF-DK:371) such that it
 - a. **SHALL** contain exactly one [1..1] **@code="TempAddrTypedIn"** (CONF-DK:272)
 - b. **SHALL** contain exactly one [1..1] **@codeSystem="1.2.208.184.100.1"** (CONF-DK:373)
 - c. **SHALL** contain exactly one [1..1] **@codeSystemName="MedCom Message Codes"** (CONF-DK:374)
 - d. **SHALL** contain exactly one [1..1] **@displayName="Midlertidig adresse, indtastet"** (CONF-DK:375)
4. This observation **SHALL** contain exactly one [1..1] **effectiveTime** (CONF-DK:376) such that it
 - a. This **effectiveTime SHALL** contain exactly one [1..1] low element (CONF-DK:377)
 - b. This low element **SHALL** contain exactly one [1..1] **@value=From date of the temporary date, formatted YYYYMMDD000000+Offset.** If unknown **nullFlavor="NI"** is allowed (CONF-DK:378)
 - c. This **effectiveTime SHOULD** contain zero or one [0..1] high element (CONF-DK:379)
 - d. This high element **SHALL** contain exactly one [1..1] **@value=To date of the temporary date, formatted**

- YYYYMMDD000000+Offset.
 If unknown nullFlavor="NI" is allowed (CONF-DK:380)
5. This observation **SHALL** contain exactly one [1..1] value (CONF-DK:381) such that it
 - a. **SHALL** contain exactly one [1..1] @xsi:type="AD" (CONF-DK:382)
 - b. **SHALL** contain at least one [1..4] streetAddressLine=Street and house number of the temporary address (CONF-DK:383)
 - c. **SHALL** contain exactly one [1..1] postalCode=Postal code of the temporary address (CONF-DK:384)
 - d. **SHALL** contain exactly one [1..1] city=City of the temporary address (CONF-DK:385)
 - e. **SHALL** contain exactly one [1..1] country=Country of the temporary address (CONF-DK:386)
 6. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:387)
 - a. This author **SHALL** be specified as described in paragraph 5.12 (CONF-DK:388)

Figure 10: The Citizen's Temporary Address - Example

```

<!-- The citizen's temporary address, typed in -->
<entry typeCode="COMP">
  <!-- observation of temporary address -->
  <observation classCode="OBS" moodCode="EVN">
    <!-- Observation templateId for typed in temporary address -->
    <templateId root="1.2.208.184.16.1.10.20.1.21" extension="2019-08-14"/>
    <id extension="3eda0a9c-3363-4257-9eda-a7c8d15fa301" root="1.2.208.184"/>
    <code code="TempAddrTypedIn" codeSystem="1.2.208.184.100.1"
      codeSystemName="MedCom Message Codes"
      displayName="Midlertidig adresse, indtastet"/>
    <effectiveTime>
      <low value="20190101000000+0100"/>
      <high value="20200101000000+0100"/>
    </effectiveTime>
    <value xsi:type="AD">
      <streetAddressLine>TemporarystreetAddressLineTypedIn</streetAddressLine>/>
      <streetAddressLine>TemporarystreetAddressLineTypedIn</streetAddressLine>/>
      <streetAddressLine>TemporarystreetAddressLineTypedIn</streetAddressLine>/>
      <streetAddressLine>TemporarystreetAddressLineTypedIn</streetAddressLine>/>
      <postalCode>TemporarypostalCodeTypedIn</postalCode>/>
      <city>TemporarycityTypedIn</city>/>
      <country>TemporarycountryTypedIn</country>/>
    </value>
    <author>
      <time value="20190808160210+0200"/>
      <assignedAuthor>
        <id assigningAuthorityName="CPR" extension="2512484916"
          root="1.2.208.176.1.2"/>
        <assignedPerson>
          <name>
            <given>Bente</given>
            <given>Kirkegård</given>
            <family>Knudsen</family>
          </name>
        </assignedPerson>
      </author>
    </observation>
  </entry>

```

```

</assignedPerson>
</assignedAuthor>
</author>
</observation>
</entry>

```

5.9 Observation: Manually Entered Dentist Information

This template represents manually entered information about the citizen's dentist.

Table 12: Manually Entered Dentist Information - Constraints Overview

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	observation (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.22:2019-08-14)					
	templateId	1..1	SHALL		CONF-DK:389	
	@root	1..1	SHALL		CONF-DK:390	1.2.208.184.16.1.10.20.1.22
	@extension	1..1	SHALL		CONF-DK:391	2019-08-14
	id	1..1	SHALL		CONF-DK:392	Identification of this observation,
	@root	1..1	SHALL		CONF-DK:393	1.2.208.184 as example
	@extension	1..1	SHALL		CONF-DK:394	UUID version 4.
	code	1..1	SHALL		CONF-DK:395	
	@code	1..1	SHALL		CONF-DK:396	"DentistTypedIn"
	@codeSystem	1..1	SHALL		CONF-DK:397	"1.2.208.184.100.1"
	@codeSystemName	1..1	SHALL		CONF-DK:398	"MedCom Message Codes"
	@displayName	1..1	SHALL		CONF-DK:399	"Tandlæge, indtastet"
	value	0..1	SHOULD		CONF-DK:399A	Dentist identification
	@xsi:type	1..1	SHALL		CONF-DK:399B	"II"
	@root	1..1	SHALL		CONF-DK:399C	1.2.208.176.1.4: If the id is based on ydernummer 1.2.208.176.1.1: If the id is based on SOR-kode
	@extension	1..1	SHALL		CONF-DK:399D	Ydernummer or SOR-kode
	@assigningAuthorityName	1..1	SHALL		CONF-DK:399E	"Yderregisteret" or "SOR"
	value	1..1	SHALL		CONF-DK:400	Dentist name
	@xsi:type	1..1	SHALL		CONF-DK:401	"EN"
	prefix	0..1	SHOULD		CONF-DK:402	Title: ex. "Tandlæge"
	given	1..*	SHALL		CONF-DK:403	Given name
	family	1..1	SHALL		CONF-DK:404	Surname

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	value	1..1	SHALL		CONF-DK:405	Dentist Address
	@xsi:type	1..1	SHALL		CONF-DK:406	“AD”
	streetAddressLine	1..4	SHALL		CONF-DK:407	At least one streetAddressline must be specified
	postalCode	1..1	SHALL		CONF-DK:408	PostalCode
	city	1..1	SHALL		CONF-DK:409	City
	country	1..1	SHALL		CONF-DK:410	Country ex. “Danmark”
	author	1..1	SHALL		CONF-DK:411	Author participation, information entered by (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.30:2019-08-14)

1. This observation **SHALL** contain exactly one [1..1] **templateId** (CONF-DK:389) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184.16.1.10.20.1.22"** (CONF-DK:390).
 - b. **SHALL** contain exactly one [1..1] **extension="2019-08-14"** (CONF-DK:391)
2. This observation **SHALL** contain exactly one [1..1] **id** (CONF-DK:392) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184"** (CONF-DK:393)
 - b. **SHALL** contain exactly one [1..1] **@extension = UUID Version 4, a unique identification of this observation** (CONF-DK:394)
3. This observation **SHALL** contain exactly one [1..1] **code** (CONF-DK:395) such that it
 - a. **SHALL** contain exactly one [1..1] **@code="DentistTypedIn"** (CONF-DK:396)
 - b. **SHALL** contain exactly one [1..1] **@codeSystem="1.2.208.184.100.1"** (CONF-DK:397)
 - c. **SHALL** contain exactly one [1..1] **@codeSystemName="MedCom Message Codes"** (CONF-DK:398)
 - d. **SHALL** contain exactly one [1..1] **@displayName="Tandlæge, indtastet"** (CONF-DK:399)
4. This observation **SHOULD** contain zero or one [0..1] value (CONF-DK:399A) such that it
 - a. **SHALL** contain exactly one [1..1] **@xsi:type="II"** (CONF-DK:399B)
 - b. **SHALL** contain exactly one [1..1] **@root="1.2.208.176.1.4"** or **@root="1.2.208.176.1.1"** (CONF-DK:399C)
 - c. **SHALL** contain exactly one [1..1] **@extension eq the Ydernummer or the SOR-Kode of the dentist** (CONF-DK:399D)

- d. **SHALL** contain exactly one [1..1] `@assigningAuthorityName="Yderregisteret"` or `@assigningAuthorityName="SOR"` (CONF-DK:399E)
5. This observation **SHALL** contain exactly one [1..1] value (CONF-DK:400) such that it
 - a. **SHALL** contain exactly one [1..1] `@xsi:type="EN"` (CONF-DK:401)
 - b. **SHOULD** contain zero or one [0..1] prefix element=Title of the dentist (CONF-DK:402)
 - c. **SHALL** contain one or more [1..*] given element=First name and middle names of the dentist (CONF-DK:403)
 - d. **SHALL** contain exactly one [1..1] family element=Sir name of the dentist (CONF-DK:404)
6. This observation **SHALL** contain exactly one [1..1] value (CONF-DK:405) such that it
 - a. **SHALL** contain exactly one [1..1] `@xsi:type="AD"` (CONF-DK:406)
 - b. **SHALL** contain at least one [1..4] streetAddressLine=Street and house number of the dentist's address (CONF-DK:407)
 - c. **SHALL** contain exactly one [1..1] postalCode=Postal code of the dentist's address (CONF-DK:408)
 - d. **SHALL** contain exactly one [1..1] city=City of the dentist's address (CONF-DK:409)
 - e. **SHALL** contain exactly one [1..1] country=Country of the dentist's address (CONF-DK:410)
7. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:411)
 - a. This author **SHALL** be specified as described in paragraph 5.12 (CONF-DK:412)

Figure 11: Manually Entered Dentist Information - Example

```

<!-- The citizen's dentist: Typed in -->
<entry typeCode="COMP">
  <!-- observation of dentist information -->
  <observation classCode="OBS" moodCode="EVN">
    <!-- Observation templateId for typed in dentist -->
    <templateId root="1.2.208.184.16.1.10.20.1.22" extension="2019-08-14"/>
    <id extension="8f1d5b96-b16e-405d-a840-4e5bc87690ae" root="1.2.208.184"/>
    <code code="DentistTypedIn" codeSystem="1.2.208.184.100.1"
      codeSystemName="MedCom Message Codes"
      displayName="Tandlæge indtastet"/>
    <value xsi:type="II" extension="654321" root="1.2.208.176.1.4"
      assigningAuthorityName="Yderregisteret"/>
    <value xsi:type="EN">
      <prefix>Tandlæge</prefix>
      <given>Jette</given>
      <family>Testesen</family>
    </value>
    <value xsi:type="AD">
      <streetAddressLine>DentiststreetAddressLineTypedIn</streetAddressLine>/>
      <streetAddressLine>DentiststreetAddressLineTypedIn</streetAddressLine>/>
      <streetAddressLine>DentiststreetAddressLineTypedIn</streetAddressLine>/>
      <streetAddressLine>DentiststreetAddressLineTypedIn</streetAddressLine>/>
    </value>
  </observation>
</entry>

```

```

<postalCode>DentistpostalCodeTypedIn</postalCode>/>
<city>DentistcityTypedIn</city>/>
<country>DentistcountryTypedIn</country>/> </value>
<author>
  <time value="20190808160110+0200"/>
  <assignedAuthor>
    <id assigningAuthorityName="CPR" extension="2512484916"
      root="1.2.208.176.1.2"/>
    <assignedPerson classCode="PSN" determinerCode="INSTANCE">
      <name>
        <given>Bente</given>
        <given>Kirkegård</given>
        <family>Knudsen</family>
      </name>
    </assignedPerson>
  </assignedAuthor>
</author>
</observation>
</entry>

```

5.10 Observation: Manually Entered Contact Information

This template represents manually entered information about the citizen's phone numbers

Table 13: Manually Entered Contact Information - Constraints Overview

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	observation (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.24:2019-08-14)					
	templateId	1..1	SHALL		CONF-DK:413	
	@root	1..1	SHALL		CONF-DK:414	1.2.208.184.16.1.10.20.1.24
	@extension	1..1	SHALL		CONF-DK:415	2019-08-14
	id	1..1	SHALL		CONF-DK:416	Identification of this observation,
	@root	1..1	SHALL		CONF-DK:417	1.2.208.184 as example
	@extension	1..1	SHALL		CONF-DK:418	UUID version 4.
	code	1..1	SHALL		CONF-DK:419	
	@code	1..1	SHALL		CONF-DK:420	"PatientContactTypedIn"
	@codeSystem	1..1	SHALL		CONF-DK:421	"1.2.208.184.100.1"
	@codeSystemName	1..1	SHALL		CONF-DK:422	"MedCom Message Codes"
	@displayName	1..1	SHALL		CONF-DK:423	"Kontaktinformation, indtastet"
	value	0..3	SHOULD		CONF-DK:424	Citizen's phone numbers element
	@xsi:type	1..1	SHALL		CONF-DK:425	"TEL"

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	@use	1..1	SHALL		CONF-DK:426	“H”=Home, “WP”=Work, “MC”=Mobile
	@value	1..1	SHALL		CONF-DK:427	“tel:” + phone number, concatenated. The pattern specified in [DKHDR] must be followed, hence spaces are not allowed.
	value	0..1	SHOULD		CONF-DK:428	Citizen’s e-mail address element
	@xsi:type	1..1	SHALL		CONF-DK:429	“TEL”
	@use	1..1	SHALL		CONF-DK:430	“H”=Home, “WP”=Work, “MC”=Mobile
	@value	1..1	SHALL		CONF-DK:431	“mailto:” + e-mail address, concatenated. The pattern specified in [DKHDR] must be followed, hence spaces are not allowed.
	author	1..1	SHALL		CONF-DK:432	Author participation, information entered by (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.30:2019-08-14)

1. This observation **SHALL** contain exactly one [1..1] **templateId** (CONF-DK:413) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184.16.1.10.20.1.24"** (CONF-DK:414).
 - b. **SHALL** contain exactly one [1..1] **extension="2019-08-14"** (CONF-DK:415)
2. This observation **SHALL** contain exactly one [1..1] **id** (CONF-DK:416) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184"** (CONF-DK:417)
 - b. **SHALL** contain exactly one [1..1] **@extension = UUID Version 4**, a unique identification of this observation (CONF-DK:418)
3. This observation **SHALL** contain exactly one [1..1] **code** (CONF-DK:419) such that it
 - a. **SHALL** contain exactly one [1..1] **@code="PatientContactTypedIn"** (CONF-DK:420)
 - b. **SHALL** contain exactly one [1..1] **@codeSystem="1.2.208.184.100.1"** (CONF-DK:421)
 - c. **SHALL** contain exactly one [1..1] **@codeSystemName="MedCom Message Codes"** (CONF-DK:422)
 - d. **SHALL** contain exactly one [1..1] **@displayName="Kontaktoplysninger, indtastet"** (CONF-DK:423)

4. This observation **SHOULD** contain at least one [0..3] value (CONF-DK:424) such that it
 - a. **SHALL** contain exactly one [1..1] @xsi:type="TEL" (CONF-DK:425)
 - b. **SHALL** contain exactly one [1..1] @use selected from value set 6.2 (CONF-DK:426)
 - c. **SHALL** contain exactly one [1..1] @value = "tel:AAAAAAAA", where AAAAAAAAA = Phone number (CONF-DK:427)
5. This observation **SHOULD** contain at least one [0..1] value (CONF-DK:428) such that it
 - a. **SHALL** contain exactly one [1..1] @xsi:type="TEL" (CONF-DK:429)
 - b. **SHALL** contain exactly one [1..1] @use selected from value set 6.2 (CONF-DK:430)
6. **SHALL** contain exactly one [1..1] @value = "mailto:MMMMMM", where MMMMMM = Citizen's e-mail address (CONF-DK:431)
7. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:432)
 - a. This author **SHALL** be specified as described in paragraph 5.12 (CONF-DK:433)

Figure 12: Manually Entered Contact Information - Example

```

<!--The citizen's contact information, typed in-->
<entry typeCode="COMP">
  <!--observation of contact information -->
  <observation classCode="OBS" moodCode="EVN">
    <!--Observation templateId for citizen contactinformation, typed in -->
    <templateId root="1.2.208.184.16.1.10.20.1.24" extension="2019-08-14"/>
    <id extension="95055cc4-39cc-4f77-99ae-300731c4522a" root="1.2.208.184"/>
    <code code="PatientContactTypedIn" codeSystem="1.2.208.184.100.1"
      codeSystemName="MedCom Message Codes"
      displayName="Kontaktoplysninger, indtastet"/>
    <value xsi:type="TEL" use="H" value="tel:11223344"/>
    <value xsi:type="TEL" use="WP" value="tel:33112244"/>
    <value xsi:type="TEL" use="MC" value="tel:66774433"/>
    <value xsi:type="TEL" use="WP" value="mailto:bkh@unknownmail.dk"/>
    <!--Type in by: -->
    <author>
      <time value="20190808155910+0200"/>
      <assignedAuthor>
        <id assigningAuthorityName="CPR" extension="2512484916"
          root="1.2.208.176.1.2"/>
        <assignedPerson>
          <name>
            <given>Nancy</given>
            <family>Berggren</family>
          </name>
        </assignedPerson>
      </assignedAuthor>
    </author>
  </observation>

```

</entry>

5.11 Observation: Manually Entered Relative's information

This template represents manually entered information about the citizen's relatives.

Please note: There is no limit to the number of relatives allowed, but more than ten should result in a prompt or dialog box where the citizen is encouraged to consider the number of relatives entered.

Table 14: Manually Entered Relative - Constraints Overview

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	observation (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.25:2019-08-14)					
	templateId	1..1	SHALL		CONF-DK:434	
	@root	1..1	SHALL		CONF-DK:435	1.2.208.184.16.1.10.20.1.25
	@extension	1..1	SHALL		CONF-DK:436	2019-08-14
	id	1..1	SHALL		CONF-DK:437	Identification of this observation,
	@root	1..1	SHALL		CONF-DK:438	1.2.208.184 as example
	@extension	1..1	SHALL		CONF-DK:439	UUID version 4.
	code	1..1	SHALL		CONF-DK:440	
	@code	1..1	SHALL		CONF-DK:441	"RelativeTypedIn"
	@codeSystem	1..1	SHALL		CONF-DK:442	"1.2.208.184.100.1"
	@codeSystemName	1..1	SHALL		CONF-DK:443	"MedCom Message Codes"
	@displayName	1..1	SHALL		CONF-DK:444	"Pårørende, indtastet"
	value	1..1	SHALL		CONF-DK:445	Relative's name element
	@xsi:type	1..1	SHALL		CONF-DK:446	"PN"
	given	1..*	SHALL		CONF-DK:447	Given name
	family	1..1	SHALL		CONF-DK:448	Surname
	value	0..3	SHOULD		CONF-DK:449	Relative's phone number element
	@xsi:type	1..1	SHALL		CONF-DK:450	"TEL"
	@use	1..1	SHALL		CONF-DK:451	"H"=Home, "WP"=Work, "MC"=Mobile
	@value	1..1	SHALL		CONF-DK:452	"tel:" + phone number, concatenated. The pattern specified in [DKHDR] must be followed, hence spaces are not allowed.
	value	1..1	SHALL		CONF-DK:453	Relative's relation code
	@xsi:type	1..1	SHALL		CONF-DK:454	"CD"

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	@code	1..1	SHALL		CONF-DK:455	Code selected from MedCom Relation Codes, ex. "nabo"
	@codeSystem	1..1	SHALL		CONF-DK:456	"1.2.208.184.100.2"
	@codeSystemName	1..1	SHALL		CONF-DK:457	"MedCom Relation Codes"
	@displayName	1..1	SHALL		CONF-DK:458	"Nabo"
	value	0..1	SHOULD		CONF-DK:459	Note about the relative
	@xsi:type	1..1	SHALL		CONF-DK:460	"ST". The note is written as narrative text.
	author	1..1	SHALL		CONF-DK:461	Author participation, information entered by (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.30:2019-08-14)

1. This observation **SHALL** contain exactly one [1..1] **templateId** (CONF-DK:434) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184.16.1.10.20.1.25"** (CONF-DK:435).
 - b. **SHALL** contain exactly one [1..1] **extension="2019-08-14"** (CONF-DK:436)
2. This observation **SHALL** contain exactly one [1..1] **id** (CONF-DK:437) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184"** (CONF-DK:438)
 - b. **SHALL** contain exactly one [1..1] **@extension = UUID Version 4**, a unique identification of this observation (CONF-DK:439)
3. This observation **SHALL** contain exactly one [1..1] **code** (CONF-DK:440) such that it
 - a. **SHALL** contain exactly one [1..1] **@code="RelativeTypedIn"** (CONF-DK:441)
 - b. **SHALL** contain exactly one [1..1] **@codeSystem="1.2.208.184.100.1"** (CONF-DK:442)
 - c. **SHALL** contain exactly one [1..1] **@codeSystemName="MedCom Message Codes"** (CONF-DK:443)
 - d. **SHALL** contain exactly one [1..1] **@displayName="Pårørende, indtastet"** (CONF-DK:444)
4. This observation **SHALL** contain exactly one [1..1] **value** (CONF-DK:445) such that it
 - a. **SHALL** contain exactly one [1..1] **@xsi:type="PN"** (CONF-DK:446)
 - b. **SHALL** contain one or more [1..*] given element = The first and middle names of the Relative (CONF-DK:447)

- c. **SHALL** contain exactly one [1..1] family element = The sir name of the Relative (CONF-DK:448)
5. This observation **SHOULD** contain at least one [0..3] value (CONF-DK:449) such that it
 - a. **SHALL** contain exactly one [1..1] @xsi:type="TEL" (CONF-DK:450)
 - b. **SHALL** contain exactly one [1..1] @use selected from value set 6.2 (CONF-DK:451)
 - c. **SHALL** contain exactly one [1..1] @value = tel:AAAAAAAAAA, where AAAAAAAAAA = Phone number of the Relative (CONF-DK:452)
6. This observation **SHALL** contain exactly one [1..1] value (CONF-DK:453) such that it
 - a. **SHALL** contain exactly one [1..1] @xsi:type="CD" (CONF-DK:454)
 - b. **SHALL** contain exactly one [1..1] @code = Relation code from MedCom Relation Codes (CONF-DK:455)
 - c. **SHALL** contain exactly one [1..1] @codeSystem = "1.2.208.184.100.2" (CONF-DK:456)
 - d. **SHALL** contain exactly one [1..1] @codeSystemName="MedCom Relation Codes" (CONF-DK:457)
 - e. **SHALL** contain exactly one [1..1] @displayName = Description of the Relation Code (CONF-DK:458)
7. This observation **SHOULD** contain zero or one [0..1] value (CONF-DK:459) such that it
 - a. **SHALL** contain exactly one [1..1] @xsi:type="ST" (CONF-DK:460) where the note written as narrative text
8. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:461)
 - a. This author **SHALL** be specified as described in paragraph 5.12 (CONF-DK:462)

Figure 13: Manually Entered Relative's information - Example

```

<!-- The citizen's Relative's: Typed in -->
<entry typeCode="COMP">
  <!-- Observation of Relative's name, phone numbers, Relation and note -->
  <observation classCode="OBS" moodCode="EVN">
    <!-- Observation templateId identifying a typed in relative -->
    <templateId root="1.2.208.184.16.1.10.20.1.25" extension="2019-08-14"/>
    <id extension="839697de-9660-4575-a3ac-61def6fb3474" root="1.2.208.184"/>
    <code code="RelativeTypedIn" codeSystem="1.2.208.184.100.1"
      codeSystemName="MedCom Message Codes"
      displayName="Pårørende, indtastet"/>
    <!-- The citizen's Relative's name and phone numbers -->
    <value xsi:type="PN">

```

```

    <given>RelativeGivenNameTypedIn</given>
    <family>RelaiveFammilyNameTypedIn</family>
  </value>
  <value xsi:type="TEL" use="H" value="tel:11223344"/>
  <value xsi:type="TEL" use="WP" value="tel:(46)-55667788-1234"/>
  <value xsi:type="TEL" use="MC" value="tel:99001122"/>
  :type="CD" code="nabo" codeSystem="1.2.208.184.100.2"
    codeSystemName="MedCom Relation Codes" displayName="Nabo"/>
  <!-- A note about the Relative -->
  <value xsi:type="ST">Naboen arbejder hos TDC i Sverige og kan træffes på
    arbejdstelefon i dagtimerne ml. 8 og 16.</value>
  <!-- Typed in by: -->
  <author>
    <templateId root="1.2.208.184.16.1.10.20.30" extension="2019-08-14"/>
    <time value="20190808155810+0200"/>
    <assignedAuthor>
      <id assigningAuthorityName="CPR" extension="2512484916"
        root="1.2.208.176.1.2"/>
      <assignedPerson>
        <name>
          <given>Bente</given>
          <given>Kirkegård</given>
          <family>Knudsen</family>
        </name>
      </assignedPerson>
    </assignedAuthor>
  </author>
</observation>
</entry>

```

5.12 Author Participation of Manually Entered Information

This template represents the author of manually entered information

Table 15: Author Participation of Manually Entered Info. - Constraints Overview

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	author (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.30:2019-08-14)					
	templateId	1..1	SHALL		CONF-DK:463	
	@root	1..1	SHALL		CONF-DK:464	1.2.208.184.16.1.10.20.30
	@extension	1..1	SHALL		CONF-DK:465	2019-08-14
	time	1..1	SHALL		CONF-DK:466	Timestamp of the entered information
	@value	1..1	SHALL		CONF-DK:467	YYYYMMDDTTMMSS+Offset
	assignedAuthor	1..1	SHALL		CONF-DK:468	
	id	1..1	SHALL		CONF-DK:469	Author identification
	@extension	1..1	SHALL		CONF-DK:470	CPR-number of the author

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	@root	1..1	SHALL		CONF-DK:471	"1.2.208.176.1.2"
	@assigningAuthorityName	1..1	SHALL		CONF-DK:472	"CPR"
	assignedPerson	1..1	SHALL		CONF-DK:473	Author person
	name	1..1	SHALL		CONF-DK:474	
	given	1..*	SHALL		CONF-DK:475	Author first name and middle names
	family	1..1	SHALL		CONF-DK:476	Author Sir name

1. This author **SHALL** contain exactly one [1..1] **templateId** (CONF-DK:463) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="1.2.208.184.16.1.10.20.30" (CONF-DK:464).
 - b. **SHALL** contain exactly one [1..1] **extension**="2019-08-14" (CONF-DK:465)
2. This author **SHALL** contain exactly one [1..1] **time** (CONF-DK:466) such that it
 - a. **SHALL** contain exactly one [1..1] **@value** = Timestamp of the entered information, formatted as "YYYYMMDDTTMMSS + Offset" (CONF-DK:467)
3. This author **SHALL** contain exactly one [1..1] **assignedAuthor** (CONF-DK:468)
4. This **assignedAuthor** **SHALL** contain exactly one [1..1] **id** (CONF-DK:469) such that it
 - a. **SHALL** contain exactly one [1..1] **@extension** = CPR-Number of the author person (CONF-DK:470)
 - b. **SHALL** contain exactly one [1..1] **@root**="1.2.208.176.1.2" (CONF-DK:471)
 - c. **SHALL** contain exactly one [1..1] **@assigningAuthorityName**="CPR" (CONF-DK:472)
5. This **assignedAuthor** **SHALL** contain exactly one [1..1] **authorPerson** (CONF-DK:473)
6. This **authorPerson** **SHALL** contain exactly one [1..1] **name** (CONF-DK:474)
7. This **name** **SHALL** contain one or more [1..*] **given** = First and middle names of the author person (CONF-DK:475)
8. This **name** **SHALL** contain exactly one [1..1] **family** = The sir name of the author person (CONF-DK:476)

Figure 14: Author Participation of Manually Entered Info. - Example

```

<!-- Typed in by: -->
<author>
  <templateId root="1.2.208.184.16.1.10.20.30" extension="2019-08-14"/>
  <time value="20190808155810+0200"/>
  <assignedAuthor>
    <id assigningAuthorityName="CPR"
      extension="2512484916" root="1.2.208.176.1.2"/>
  
```

```

<assignedPerson>
  <name>
    <given>Bente</given>
    <given>Kirkegård</given>
    <family>Knudsen</family>
  </name>
</assignedPerson>
</assignedAuthor>
</author>

```

5.13 Author of Information from a Register

This template represents the author of information that is returned from a register.

Table 16: Author of Information from a Register - Constraints Overview

Name	XPath	Card	Verb	Data Type	CONF#	Fixed Value
	author (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.31:2019-08-14)					
	templateId	1..1	SHALL		CONF-DK:477	
	@root	1..1	SHALL		CONF-DK:478	1.2.208.184.16.1.10.20.31
	@extension	1..1	SHALL		CONF-DK:479	2019-08-14
	time	1..1	SHALL		CONF-DK:480	Timestamp of the last update of the information. If unknown, use an appropriate nullFlavor, e.g. nullFlavor="NI"
	@value	1..1	SHALL		CONF-DK:481	YYYYMMDDTTMMSS+Offset
	assignedAuthor	1..1	SHALL		CONF-DK:482	
	id	1..1	SHALL		CONF-DK:483	Author identification
	@extension	1..1	SHALL		CONF-DK:484	The ID of the specified register. If unknown use "NI".
	@root	1..1	SHALL		CONF-DK:485	The OID of the register
	@assigningAuthorityName	1..1	SHALL		CONF-DK:486	The responsible organization of the register
	representedOrganization	1..1	SHALL		CONF-DK:487	Responsible organization
	name	1..1	SHALL		CONF-DK:488	Name of the responsible organization

1. This author **SHALL** contain exactly one [1..1] **templateId** (CONF-DK:477) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="1.2.208.184.16.1.10.20.31"** (CONF-DK:478).

- b. **SHALL** contain exactly one [1..1] extension="2019-08-14" (CONF-DK:479)
2. This author **SHALL** contain exactly one [1..1] time (CONF-DK:480) such that it
 - a. **SHALL** contain exactly one [1..1] @value = Timestamp of the last update of the register information, formatted as "YYYYMMDDTMMSS + Offset". If this timestamp is unknown use an appropriate nullFlavor (CONF-DK:481)
3. This author **SHALL** contain exactly one [1..1] assignedAuthor (CONF-DK:482)
4. This assignedAuthor **SHALL** contain exactly one [1..1] id (CONF-DK:483) such that it
 - a. **SHALL** contain exactly one [1..1] @extension = Id of the register. If this Id is unknown use "NI" (CONF-DK:484)
 - b. **SHALL** contain exactly one [1..1] @root = The OID of the register (CONF-DK:485)
 - c. **SHALL** contain exactly one [1..1] @assigningAuthorityName = The responsible organization of the register (CONF-DK:486)
5. This assignedAuthor **SHALL** contain exactly one [1..1] representedOrganization (CONF-DK:487) such that it
 - a. **SHALL** contain exactly one [1..1] name (CONF-DK:488)

Figure 15: Author of Information from a Register - Example

```

<!-- Author of this information is Danish Organ Donor Register -->
<author>
  <!-- This templateId is the used when the author of information is a register -->
  <templateId root="1.2.208.184.16.1.10.20.31" extension="2019-08-14"/>
  <!-- time is unknown -->
  <time nullFlavor="NI"/>
  <assignedAuthor>
    <!-- id @root is set to Danish Organ Donor Register -->
    <id root="1.2.208.176.1.10" extension="NI" assigningAuthorityName="Dansk Center For
    Organdonation"/>
    <representedOrganization>
      <name>Dansk Center For Organdonation</name>
    </representedOrganization>
  </assignedAuthor>
</author>

```

6 APPENDIX A: VALUE SETS

6.1 DK templated's used

Id	Description
1.2.208.184.16.1	MedCom PDC Document
1.2.208.184.16.1.10.20.1:2019-08-14	Section of additional information from registers and manually entered information
1.2.208.184.16.1.10.20.1.20:2019-08-14	Observation of spoken language, typed in
1.2.208.184.16.1.10.20.1.21:2019-08-14	Observation of temporary address, typed in
1.2.208.184.16.1.10.20.1.22:2019-08-14	Observation of dentist contact info, typed in
1.2.208.184.16.1.10.20.1.23:2019-08-14	Observation of custody information, from CPR
1.2.208.184.16.1.10.20.1.24:2019-08-14	Observation of citizen contact info, typed in
1.2.208.184.16.1.10.20.1.25:2019-08-14	Observation of Relative's, typed in
1.2.208.184.16.1.10.20.1.26:2019-08-14	Observation of citizen's name and address, from CPR
1.2.208.184.16.1.10.20.1.27:2019-08-14	Observation of citizen's coverage group, from Sygesikringen
1.2.208.184.16.1.10.20.1.28:2019-08-14	Observation of citizen's organ donor registration
1.2.208.184.16.1.10.20.1.29:2019-08-14	Observation of citizen's treatment will registration
1.2.208.184.16.1.10.20.1.30:2019-08-14	Observation of citizen's living will registration
1.2.208.184.16.1.10.20.30:2019-08-14	Author Participation of manually entered info.
1.2.208.184.16.1.10.20.31:2019-08-14	Author of information returned from a register.
1.2.208.184.100.3	Identification and version of this CDA profile

6.2 Telecommunications address

For value set please see Table 3 and forward in:

<https://svn.medcom.dk/svn/releases/Standarder/HL7/CDA/Header/Dokumentation/DK-CDA-Header.pdf>

6.3 MedCom Relation Codes

For value set please see:

<https://svn.medcom.dk/svn/drafts/Klassifikationer/MedCom Relation Codes.xlsx>

6.4 Sygesikringen Coverage Groups

Group	Description
1	Selvstændig sikret - med lægevalg
2	Selvstændig sikret - uden lægevalg
3	3 Benyttes ikke

Group	Description
4	Sikrede er optaget i fængselsvæsnets institutioner efter dom (3 måneder eller mere)
5	Sikrede er værnepligtig (3 måneder eller mere)
6	Tilsvarende som gruppe 1; men sikrede er institutionsanbragt (§ 112)
7	Sikrede har bopæl i udlandet
8	Sikrede har status afgangsført - fraflyttet regionen, ihjelslagne, (personer der har haft 2 CPR-numre), forsvundne eller omnummererede
9	Sikrede er død

6.5 Text References

Reference Id	Description
DKHDR	HL7 Implementation Guide for CDA R2, CDA Header (DK CDA Header). https://svn.medcom.dk/svn/releases/Standarder/HL7/CDA-Header/Dokumentation/DK-CDA-Header.pdf
CCDAR21	HL7 Implementation Guide for CDA Release 2: Consolidated CDA Templates for Clinical Notes (US Realm) DSTU Release 2.1
CDAR2	HL7 Clinical Document Architecture, Release 2.0 [1]