

HL7 Implementation Guide for CDA Release 2

Personal Data Card

(Danish profile – PDC-DK)

Release 3.0.0
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Revision history			
Release	Author	Date	Notes
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]
	MedCom	2019-11-15	Error in the documentation, but not in the figures and not in the examples: In the table DK templateId's used templateId 1.2.208.184.200.1.10 is corrected to 1.2.208.184.100.3
	MedCom	2019-12-06	Updated OID for Sygesikringen. Added id-element for identification of dentist by ydernummer or SOR-kode
	MedCom	2020-01-20	Added id-element to reflect the citizen's address confidentiality
	MedCom	2020-04-15	Draft for trial use on the front page removed The use of practitioner email and citizen email removed
3.0.0	MedCom	2023-07-01	<p>This major release of PDC-DK is built on a merge of PDC-DKv2.0 and Errata PDC-DK-v2.0. In addition, it comes with a number of changes, which are described below.</p> <ul style="list-style-type: none"> - Section 1.4 Versioning that describes the semantic versioning this standard follows, has been added. - New examples in section 1.7 Content of the Package - An extension attribute, holding the version number, is added to the templateID element 2.1 PDC-DK specific header information - The content of the element 2.1.9 documentationOf that holds the PDC version information, has been updated - The section 4.1 Personal Data Card section of additional information from registers and manually entered information has been expanded with constraints and information for Citizen's No Resuscitation Registration - In the section 5.4 Observation: Citizen's Registration as Organ Donor has the description of the values 'true' and 'false' been clarified. - The new section 5.7 Observation: Citizen's No Resuscitation Registration has been added, which specifies the constraints and rules for the new data field for no resuscitation wish. - In section 5.10 Observation: Manually Entered Dentist Information <ul style="list-style-type: none"> o A new value that specifying the practice name. o Cardinality is expanded for 'Dentist name' and changed xsi:type o Cardinality is expanded for 'Dentist telecom'. - The section 5.13 Author Participation of Manually Entered Information <ul style="list-style-type: none"> o Description of id/@extension has been updated, so that it is differentiated as to whether it is a citizen/relative or healthcare professional who has updated the information. o The code element has been added to support the inclusion of a code indicating whether the information was entered by a citizen/relative or health professional. o The representedOrganization has been added to handle the name of an organization. - In 6.1 DK templateId's used the table in this section has added the templateId for Observation of citizen's no resuscitation registration.

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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, resuscitation). 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, resuscitation)
 - Document responsible
 - Contact information (email, telephone)

1.3 Scope

This implementation guide is a conformance profile, as described in the “Refinement and Localization” section of the HL7 Version 3 Interoperability Standards. The base standard for this implementation guide is the HL7 Clinical Document Architecture, Release 2.0. 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 Versioning

The version of this implementation guide follows semantic versioning, version 2.0¹. Semantic versioning includes three numbers, which are separated by a dot, e.g. 2.1.4. The numbers are called major, minor, and patch, respectively. They represent different degrees of changes:

- **MAJOR** version is raised when a backward, incompatible change is made, such as including new required elements.
- **MINOR** version is raised when backward compatible functionality is added, such as lowering the requirements for elements.
- **PATCH** version is raised when backward compatible bug fixes are made, such as textual corrections.

Increase of patch version will occur when necessary, and it will not affect MedCom requirements for fulfilling the standard. Therefore, only the major and minor version number are included in the CDA-header element documentationOf and in the formatCode ValueSet for XDS-metadata.

1.5 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.

1.5.1 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.

1.5.2 Conformance Requirements

The constraints in the original Questionnaire Form Definition Document are carried on by using the original conformance identification identifier **CONF:XX**.

If an original constraint is not used in the Danish profile the number is omitted. In most cases new constraints in the Danish profile are added by using the conformance identification identifier **CONF-DK:XX**.

1.6 Organization of This Guide

This guide includes a set of CDA Templates and prescribes their use within a person 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 templateld's used in this specification.

¹ <https://semver.org/>

1.7 Content of the Package

The following files comprise the package.

Filename ²	Description	Standards Applicability
PDC-DK-v3.0.0.pdf	This implementation guide	Normative
PDC30_Example-4_2023-07-01_with_narrative_text.xml	One of two sample CDA XML file that includes examples of templates discussed in this guide.	Informative
PDC30_Example-5_2023-07-01_with_narrative_text_and_confidential_addresses_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/stylesheets-master/Stylesheets/CDA/cda.xsl	Another stylesheet for display of CDA instances	Informative

Table 1: Content of the Package

² 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) [[CDA-HDR-DK](#)].

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] @extension="3.0" (CONF-DK:524)
 - b. 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 (CON-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.

1. 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).
 - i. This time **SHALL** contain exactly one [1..1] @value = the creation time of the CDA instance (CONF-DK:114).
 - b. This author **SHALL** contain exactly one [1..1] assignedAuthor (CONF-DK:115).
 - i. This assignedAuthor **SHALL** contain exactly one [1..1] id (CONF-DK:116).
 1. This id **SHALL** contain exactly one [1..1] @assigningAuthorityName="SOR" (CONF-DK:489).
 2. This id **SHALL** contain exactly one [1..1] @root="1.2.208.176.1.1" (CONF-DK:117).
 3. This id **SHALL** contain exactly one [1..1] @extension="1126211000016009" (CONF-DK:118).
 - ii. This assignedAuthor **SHALL** contain exactly one [1..1] representedOrganization (CONF-DK:119).
 1. 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.

1. 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).
 - i. This `assignedCustodian` **SHALL** contain exactly one [1..1] `representedCustodianOrganization` (CONF-DK:125).
 1. This `representedCustodianOrganization` **SHALL** contain exactly one [1..1] `id` (CONF-DK:126).
 - a. This `id` **SHALL** contain exactly one [1..1] `@root="1.2.208.176.1.1"` (CONF-DK:127).
 - b. This `id` **SHALL** contain exactly one [1..1] `@extension="1126211000016009"` (CONF-DK:128).
 2. 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 3.0 instance.

One `documentationOf` is holding the version of the PDC 3.0 instance and is described in the CDA Header-DK document [see [CDA-HDR-DK, 6.6](#)].

Another `documentationOf` holds the creation time of the PDC 3.0 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.

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

- i. 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](#).

```

<ClinicalDocument
  moodCode="EVN"
  xmlns="urn:hl7-org:v3"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:hl7-org:v3 ../Schema/infrastructure/cda/CDA_SDTC.xsd">
  <realmCode
    code="DK"/>
  <typeId
    extension="POCD_HD000040"
    root="2.16.840.1.113883.1.3"/>
  <!-- MedCom templateId for Personal Data Card -->
  <templateId
    extension="3.0"
    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
    code="PDC"
    codeSystem="1.2.208.184.100.1"
    codeSystemName="MedCom Message Codes"
    displayName="Stamkort"/>
  <title>Personal Data Card for 2512489996 </title>
  <!-- Personal Data Card generated at: -->
  <effectiveTime
    value="20190808160510+0200"/>
  <confidentialityCode
    code="N"
    codeSystem="2.16.840.1.113883.5.25"/>
  <languageCode
    code="da-DK"/>
  <!-- This recordTarget indentifies 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
          code="F"
          codeSystem="2.16.840.1.113883.5.1"/>
        <birthTime
          value="19481225000000+0000"/>
      </patient>
    <!-- GP from CPR: Identified by ydernummer, could also be identified by SOR-id -->
    <providerOrganization>
      <id
        assigningAuthorityName="Yderregisteret"
        extension="123456"
        root="1.2.208.176.1.4"/>
      <name>Testyder</name>
      <telecom

```

```

    use="WP"
    value="tel:+4512345678"/>
<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 --&gt;
&lt;author&gt;
  &lt;!-- time is set to document creating time=effectiveTime above--&gt;
  &lt;time
    value="20190808160510+0200"/&gt;
  &lt;assignedAuthor&gt;
    &lt;!-- id @root is set to SDS-root--&gt;
    &lt;id
      assigningAuthorityName="SOR"/&gt;
      extension="1126211000016009"
      root="1.2.208.176.1.1"/&gt;
    &lt;representedOrganization&gt;
      &lt;name&gt;Sundhedsdatastyrelsen&lt;/name&gt;
    &lt;/representedOrganization&gt;
  &lt;/assignedAuthor&gt;
&lt;/author&gt;
<!-- The custodian of this document is the FSK on-demand-service, identified by SDS --&gt;
&lt;custodian&gt;
  &lt;assignedCustodian&gt;
    &lt;representedCustodianOrganization&gt;
      &lt;!-- id @root is set to SDS-root--&gt;
      &lt;id
        assigningAuthorityName="SOR"/&gt;
        extension="1126211000016009"
        root="1.2.208.176.1.1"/&gt;
      &lt;name&gt;Sundhedsdatastyrelsen&lt;/name&gt;
    &lt;/representedCustodianOrganization&gt;
  &lt;/assignedCustodian&gt;
&lt;/custodian&gt;
&lt;!--This documentationOf holds the creation time of this CDA instance --&gt;
&lt;documentationOf
  typeCode="DOC"&gt;
  &lt;serviceEvent
    classCode="ACT"
    moodCode="EVN"&gt;
    &lt;effectiveTime&gt;
      &lt;low
        value="20190808160510+0200"/&gt;
      &lt;high
        nullFlavor="NA"/&gt;
    &lt;/effectiveTime&gt;
  &lt;/serviceEvent&gt;
&lt;/documentationOf&gt;
&lt;!--This documentationOf holds the version of the CDA-profile --&gt;
&lt;documentationOf
  typeCode="DOC"&gt;
  &lt;serviceEvent
    classCode="MPROT"
    moodCode="EVN"&gt;
    &lt;!--This templateId tells that this serviceEvent holds the identification (pdc) and
version (v3.0) of the CDA profile --&gt;
    &lt;templateId
      root="1.2.208.184.10.1.10"/&gt;
    &lt;!--This id @extension equals the identification and version of the CDA profile--&gt;
    &lt;id
      assigningAuthorityName="MedCom"
      extension="pdc-v3.0"
      root="1.2.208.184.100.10"/&gt;
  &lt;/serviceEvent&gt;
&lt;/documentationOf&gt;
&lt;/ClinicalDocument&gt;
</pre>

```

Figure 1: PDC 2.0 Header - Example

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

XPath	Card	Verb	CONF#	Value
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)

Table 2: Document-level Template - Constraints Overview

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.

XPath	Card	Verb	CONF#	Value
@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)
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:1.2.208.184.16.1.10.20.1.27:2019-08-14)
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:1.2.208.184.16.1.10.20.1.28:2019-08-14)
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:1.2.208.184.16.1.10.20.1.29:2019-08-14)
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:1.2.208.184.16.1.10.20.1.30:2019-08-14)
entry	1..1	SHALL	CONF-DK:512	Citizen's No Resuscitation Registration
@typeCode	1..1	SHALL	CONF-DK:513	"COMP"
observation	1..1	SHALL	CONF-DK:514	Observation of whether the citizen has an active registration about "No Resuscitation if a cardiac arrest occurs" returned from Sundhedsdatastyrelsen (identifier: urn:hl7ii: 1.2.208.184.16.1.10.20.1.31:2023-07-01)
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:1.2.208.184.16.1.10.20.1.20:2019-08-14)
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:1.2.208.184.16.1.10.20.1.21:2019-08-14)
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 (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.22:2019-08-14)
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:1.2.208.184.16.1.10.20.1.24:2019-08-14)
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)

Table 3: Section-level Template - Constraints Overview

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
 - iii. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.23" (CONF-DK:161).
 - iv. **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
 - iii. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.26" (CONF-DK:167).
 - iv. **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
 - iii. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.27" (CONF-DK:173).
 - iv. **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
 - iii. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.28" (CONF-DK:179).
 - iv. **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
 - iii. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.29" (CONF-DK:185).
 - iv. **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

- iii. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.30" (CONF-DK:191).
 - iv. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:192).
- 9. This section **SHALL** contain exactly one [1..1] entry (CONF-DK:512) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" (CONF-DK:513).
 - b. **SHALL** contain exactly one [1..1] observation of whether the citizen has an active registration about "No Resuscitation if a cardiac arrest occurs" (CONF-DK:514).
 - c. This observation **SHALL** contain exactly one [1..1] templateId (CONF-DK:494) such that it
 - iii. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.31" (CONF-DK:495).
 - iv. **SHALL** contain exactly one [1..1] @extension="2023-07-01" (CONF-DK:496).
- 10. 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
 - iii. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.20" (CONF-DK:197).
 - iv. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:198).
- 11. 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
 - iii. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.21" (CONF-DK:203).
 - iv. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:204).
- 12. 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
 - iii. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.22" (CONF-DK:209).
 - iv. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:210).
- 13. 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
 - iii. **SHALL** contain exactly one [1..1] @root="1.2.208.184.16.1.10.20.1.24" (CONF-DK:215).
 - iv. **SHALL** contain exactly one [1..1] @extension="2019-08-14" (CONF-DK:216).
- 14. 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:

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

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

XPath	Card	Verb	CONF#	Value
observation (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.23:2019-08-14)				
templateId	1..1	SHALL	CONF-DK:223	
@root	1..1	SHALL	CONF-DK:224	1.2.208.184.16.1.10.20.1.23
@extension	1..1	SHALL	CONF-DK:225	2019-08-14
id	1..1	SHALL	CONF-DK:226	Identification of this observation,
@root	1..1	SHALL	CONF-DK:227	1.2.208.184 as example
@extension	1..1	SHALL	CONF-DK:228	UUID version 4.
code	1..1	SHALL	CONF-DK:229	
@code	1..1	SHALL	CONF-DK:230	"ChildCustody" or "CustodyBy"
@codeSystem	1..1	SHALL	CONF-DK:231	"1.2.208.184.100.1"
@codeSystemName	1..1	SHALL	CONF-DK:232	"MedCom Message Codes"
@displayName	1..1	SHALL	CONF-DK:233	If @code = "ChildCustody" Then @displayName= "Forældremyndighed over" 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 = <i>CPR-number of the child</i> . If @code = "CustodyBy" then @extension = <i>CPR-number of the adult</i> .
@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 = <i>given name of the child</i> . If @code = "CustodyBy" then @given = <i>given name of the adult</i> .
family	1..1	SHALL	CONF-DK:242	If @code = "ChildCustody" then @family = <i>Surname of the child</i> . If @code = "CustodyBy" then @family = <i>surname of the adult</i> .
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	If @code = "ChildCustody" then the only valid relation codes are ["mor", "far", "anden"] If @code = "CustodyBy" then the only valid relation code is ["barn"]
@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	If @code = "ChildCustody" then the only valid @displayName is ["Mor", "Far", "Anden relation"] If @code = "CustodyBy" then the only valid @displayName is ["Barn"]
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)

Table 4: Custody Information from CPR - Constraints overview

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 [5.14](#) (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
      extension="2019-08-14"
      root="1.2.208.184.16.1.10.20.1.23"/>
    <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
      assigningAuthorityName="CPR"
      extension="9999999999"
      root="1.2.208.176.1.2">
```

```

    xsi:type="II"/>
<!-- 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 representing the relationship the patient has to the child of whom the patient
have custody -->
<value
  code="mor"
  codeSystem="1.2.208.184.100.2"
  codeSystemName="MedCom Relation Codes"
  displayName="Mor"
  xsi:type="CD"/>
<!-- Author of this information is CPR -->
<author>
  <!-- This templateId is the used when the author of information is a register -->
  <templateId
    extension="2019-08-14"
    root="1.2.208.184.16.1.10.20.31"/>
  <!-- time is unknown -->
  <time
    nullFlavor="NI"/>
  <assignedAuthor>
    <!-- id @root is set to CPR-root-->
    <id
      assigningAuthorityName="CPR"
      extension="NI"
      root="1.2.208.176.1.2"/>
    <!-- representedOrganization is mandatory when we don't have an authorPerson -->
    <representedOrganization>
      <name>CPR</name>
    </representedOrganization>
  </assignedAuthor>
</author>
</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.

XPath	Card	Verb	CONF#	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	"I"
@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"
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)

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

1. 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)
2. 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)
3. 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)
4. 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)
5. 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)
6. 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)
7. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:272)
 - a. This author **SHALL** be specified as described in paragraph [5.14](#) (CONF-DK:273)

```

<!-- 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
      extension="2019-08-14"
      root="1.2.208.184.16.1.10.20.1.26"/>
    <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
      use="H">
      xsi:type="AD">
        <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
        extension="2019-08-14"
        root="1.2.208.184.16.1.10.20.31"/>
      <!-- time is unknown -->
      <time
        nullFlavor="NI"/>
      <assignedAuthor>
        <!-- id @root is set to CPR-root-->
        <id
          assigningAuthorityName="CPR"
          extension="NI"
          root="1.2.208.176.1.2"/>
        <!-- representedOrganization is mandatory when we don't have an authorPerson -->
        <representedOrganization>
          <name>CPR</name>
        </representedOrganization>
      </assignedAuthor>
    </author>
  </observation>
</entry>

```

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
      extension="2019-08-14"
      root="1.2.208.184.16.1.10.20.1.26"/>
    <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>
    <!-- This id is present if the address from CPR is marked as confidential (Danish:
    Adressebeskyttelse)-->
    <value
      assigningAuthorityName="MedCom"
      extension="ConfAddr"
      root="1.2.208.184.100.1"
      xsi:type="II"/>
    <value
      use="H"
      xsi:type="AD">
      <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
        extension="2019-08-14"
        root="1.2.208.184.16.1.10.20.31"/>
      <!-- time is unknown -->
      <time
        nullFlavor="NI"/>
      <assignedAuthor>
        <!-- id @root is set to CPR-root-->
        <id
          assigningAuthorityName="CPR"
          extension="NI"
          root="1.2.208.176.1.2"/>
        <!-- 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

5.3 Observation: Citizen's Coverage Group from CPR

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

XPath	Card	Verb	CONF#	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	
@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 6.5
@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)

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

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 [6.5](#) (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 [5.14](#) (CONF-DK:291)

```
<!-- 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
      extension="2019-08-14"
      root="1.2.208.184.16.1.10.20.1.27"/>
    <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
  assigningAuthorityName="Sygesikringen"
  extension="1"
  root="1.2.208.176.2.7"
  xsi:type="II"/>
<!-- Author of this information is sygesikringen -->
<author>
  <!-- This templateId is the used when the author of information is a register -->
  <templateId
    extension="2019-08-14"
    root="1.2.208.184.16.1.10.20.31"/>
  <!-- time is unknown -->
  <time
    nullFlavor="NI"/>
  <assignedAuthor>
    <!-- id @root is set to Sygesikringen -->
    <id
      assigningAuthorityName="Sygesikringen"
      extension="NI"
      root="1.2.208.176.2.7"/>
    <!-- representedOrganization is mandatory when we don't have an authorPerson -->
    <representedOrganization>
      <name>Sygesikringen</name>
    </representedOrganization>
  </assignedAuthor>
</author>
</observation>
</entry>

```

Figure 5 Citizen's Coverage Group from CPR – Example

5.4 Observation: Citizen's Registration as Organ Donor

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

XPath	Card	Verb	CONF#	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" = A registration exists in the dononregister "false" = A registration does NOT exist in the dononregister
@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)

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

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 [5.14](#) (CONF-DK:309)

```
<!-- 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
            extension="2019-08-14">
```

```

    root="1.2.208.184.16.1.10.20.1.28"/>
<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
  assigningAuthorityName="Dansk Center For Organdonation"
  extension="false"
  root="1.2.208.176.1.10"
  xsi:type="II"/>
<!-- Author of this information is Danish Organ Donor Register -->
<author>
  <!-- This templateId is the used when the author of information is a register -->
  <templateId
    extension="2019-08-14"
    root="1.2.208.184.16.1.10.20.31"/>
  <!-- time is unknown -->
  <time
    nullFlavor="NI"/>
  <assignedAuthor>
    <!-- id @root is set to Danish Organ Donor Register -->
    <id
      assigningAuthorityName="Dansk Center For Organdonation"
      extension="NI"
      root="1.2.208.176.1.10"/>
    <!-- representedOrganization is mandatory when we don't have an authorPerson -->
    <representedOrganization>
      <name>Dansk Center For Organdonation</name>
    </representedOrganization>
  </assignedAuthor>
</author>
</observation>
</entry>

```

Figure 6 Citizen's Registration as Organ Donor – Example

5.5 Observation: Citizen's Treatment Will Registration

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

XPath	Card	Verb	CONF#	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"
@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)

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

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 [5.14](#) (CONF-DK:327)

```

<!-- 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
      extension="2019-08-14"
      root="1.2.208.184.16.1.10.20.1.29"/>
    <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
      assigningAuthorityName="Sundhedsdatastyrelsen"
      extension="false"
      root="1.2.208.176.1.9"
      xsi:type="II"/>
    <!-- Author of this information is a register at Sundhedsdatastyrelsen -->
    <author>
      <!-- This templateId is the used when the author of information is a register -->
      <templateId
        extension="2019-08-14"
        root="1.2.208.184.16.1.10.20.31"/>
      <!-- time is unknown -->
      <time
        nullFlavor="NI"/>
      <assignedAuthor>
        <!-- id @root is set to 1.2.208.176.1.9 -->
        <id
          assigningAuthorityName="Sundhedsdatastyrelsen"
          extension="NI"
          root="1.2.208.176.1.9"/>
        <!-- representedOrganization is mandatory when we don't have an authorPerson -->
        <representedOrganization>
          <name>Sundhedsdatastyrelsen</name>
        </representedOrganization>
      </assignedAuthor>
    </author>
  </observation>
</entry>

```

Figure 7 Citizen's Treatment Will Registration – Example

5.6 Observation: Citizen's Living Will Registration

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

XPath	Card	Verb	CONF#	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	
@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)

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

1. 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)
2. 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)
3. 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)
4. 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)
 - c. **SHALL** contain exactly one [1..1] @assigningAuthorityName="Sundhedsdatastyrelsen" (CONF-DK:343)
5. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:344)
 - a. This author **SHALL** be specified as described in paragraph [5.14](#) (CONF-DK:345)

```

<!-- 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
      extension="2019-08-14"
      root="1.2.208.184.16.1.10.20.1.30"/>
    <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
      assigningAuthorityName="Sundhedsdatastyrelsen"
      extension="true"
      root="1.2.208.176.1.8"
      xsi:type="II"/>
    <!-- Author of this information is register at Sundhedsdatastyrelsen -->
    <author>
      <!-- This templateId is the used when the author of information is a register -->
      <templateId
        extension="2019-08-14"
        root="1.2.208.184.16.1.10.20.31"/>
      <!-- time is unknown -->
      <time
        nullFlavor="NI"/>
      <assignedAuthor>
        <!-- id @root is set to Sundhedsdatastyrelsen -->
        <id
          assigningAuthorityName="Sundhedsdatastyrelsen"
          extension="NI"
          root="1.2.208.176.1.8"/>
        <!-- representedOrganization is mandatory when we don't have an authorPerson -->
        <representedOrganization>
          <name>Sundhedsdatastyrelsen</name>
        </representedOrganization>
      </assignedAuthor>
    </author>
  </observation>
</entry>

```

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
      extension="2019-08-14"
      root="1.2.208.184.16.1.10.20.1.30"/>
    <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
      assigningAuthorityName="Sundhedsdatastyrelsen"
      extension="false"
      root="1.2.208.176.1.8"
      xsi:type="II"/>
    <!-- Author of this information is register at Sundhedsdatastyrelsen -->
    <author>
      <!-- This templateId is the used when the author of information is a register -->
      <templateId
        extension="2019-08-14"
        root="1.2.208.184.16.1.10.20.31"/>
      <!-- time is unknown -->
      <time
        nullFlavor="NI"/>
      <assignedAuthor>
        <!-- id @root is set to Sundhedsdatastyrelsen -->
        <id
          assigningAuthorityName="Sundhedsdatastyrelsen"
          extension="NI"
          root="1.2.208.176.1.8"/>
        <!-- representedOrganization is mandatory when we don't have an authorPerson -->
        <representedOrganization>
          <name>Sundhedsdatastyrelsen</name>
        </representedOrganization>
      </assignedAuthor>
    </author>
  </observation>
</entry>

```

Figure 9 Citizen's Living Will Registration – Example

5.7 Observation: Citizen's No Resuscitation Registration

This template represents whether the Citizen has an active registration about “No Resuscitation if a cardiac arrest occurs”.

Note: as long the registration is in draft mode (until 7 days after the citizen has finished the registration) – this profile will return “false” as the registration is not yet valid.

Xpath	Card	Verb	CONF#	Value
observation (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.1.31:2023-07-01)				
templateId	1..1	SHALL	CONF-DK:494	
@root	1..1	SHALL	CONF-DK:495	1.2.208.184.16.1.10.20.1.31
@extension	1..1	SHALL	CONF-DK:496	2023-07-01
id	1..1	SHALL	CONF-DK:497	Identification of this observation
@root	1..1	SHALL	CONF-DK:498	1.2.208.184
@extension	1..1	SHALL	CONF-DK:499	UUID version 4
Code	1..1	SHALL	CONF-DK:500	
@code	1..1	SHALL	CONF-DK:501	“NoResuscitationRegistration”
@codeSystem	1..1	SHALL	CONF-DK:502	“1.2.208.184.100.1”
@codeSystemName	1..1	SHALL	CONF-DK:503	“MedCom Message Codes”
@displayName	1..1	SHALL	CONF-DK:504	“Registreret fravælg af genoplivningsforsøg v. hjertestop”
Value	1..1	SHALL	CONF-DK:505	
@xsi:type	1..1	SHALL	CONF-DK:506	“II”
@extension	1..1	SHALL	CONF-DK:507	“true” = Citizen has registered a no resuscitation wish “false” = Citizen has NOT registered a no resuscitation wish or no resuscitation wish is not yet active Or the NullFlavor “NAV” = “temporarily unavailable”
@root	1..1	SHALL	CONF-DK:508	“1.2.208.176.1.11”
@assigningAuthorityName	1..1	SHALL	CONF-DK:509	“Sundhedsdatastyrelsen”
Author	1..1	SHALL	CONF-DK:510	Author of information returned from a register (identifier: urn:hl7ii:1.2.208.184.16.1.10.20.31:2019-08-14) The time element only holds a time stamp when the citizen has registered a no resuscitation wish or has subsequently canceled the wish. In all other cases, the NullFlavor “NI” is used.

Table 10: Citizen's Living Will Registration – Constraints overview

1. This observation **SHALL** contain exactly one [1..1] templateId (CONF-DK:494) such that it
 - a. **SHALL** contain exactly one [1..1] @root=“1.2.208.184.16.1.10.20.1.31” (CONF-DK:495)
 - b. **SHALL** contain exactly one [1..1] extension=“2023-07-01” (CONF-DK:496)
2. This observation **SHALL** contain exactly one [1..1] id (CONF-DK:497) such that it
 - a. **SHALL** contain exactly one [1..1] @root=“1.2.208.184” (CONF-DK:498)
 - b. **SHALL** contain exactly one [1..1] @extension that is a UUID Version 4 - a unique identification of this observation (CONF-DK:499)
3. This observation **SHALL** contain exactly one [1..1] code (CONF-DK:500) such that it
 - a. **SHALL** contain exactly one [1..1] @code=“NoResuscitationRegistration” (CONF-DK:501)
 - b. **SHALL** contain exactly one [1..1] @codeSystem=“1.2.208.184.100.1” (CONF-DK:502)
 - c. **SHALL** contain exactly one [1..1] @codeSystemName=“MedCom Message Codes” (CONF-DK:503)
 - d. **SHALL** contain exactly one [1..1] @displayName=“Registreret fravælg af genoplivningsforsøg v. hjertestop” (CONF-DK:504)
4. This observation **SHALL** contain exactly one [1..1] value (CONF-DK:505) such that it
 - a. **SHALL** contain exactly one [1..1] @xsi:type=“II” (CONF-DK:506)
 - b. **SHALL** contain exactly one [1..1] @extension = “true” or “false” (CONF-DK:507)
 - i. If no information is provided from the register about the citizens choice of resuscitation, e.g. before the register is active, the NullFlavor “NAV” (TEMPORARILY UNAVAILABLE) is provided.
 - c. **SHALL** contain exactly one [1..1] @root=“1.2.208.176.1.11” (CONF-DK:508)

- d. **SHALL** contain exactly one [1..1]
@assigningAuthorityName="Sundhedsdatastyrelsen" (CONF-DK:509)
- 5. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:510)
 - a. This author **SHALL** be specified as described in paragraph [5.14](#) (CONF-DK:511)

```
<!-- The citizen's No Resuscitation Registration -->
<entry
  typeCode="COMP">
  <!-- observation of citizen's No Resuscitation Registration -->
  <observation
    classCode="OBS"
    moodCode="EVN">
    <!-- Observation templateId for citizen's No Resuscitation Registration -->
    <templateId
      extension="2023-07-01"
      root="1.2.208.184.16.1.10.20.1.31"/>
    <id
      extension="dbd8639f-5eed-429c-8e20-3e8370ded233"
      root="1.2.208.184"/>
    <code
      code="NoResuscitationRegistration"
      codeSystem="1.2.208.184.100.1"
      codeSystemName="MedCom Message Codes"
      displayName="Registreret fravælg af genoplivningsforsøg v. hjertestop"/>
    <value
      assigningAuthorityName="Sundhedsdatastyrelsen"
      extension="true"
      root="1.2.208.176.1.11"
      xsi:type="II"/>
    <!-- Author of this information is register at Sundhedsdatastyrelsen -->
    <author>
      <!-- This templateId is the used when the author of information is a register -->
      <templateId
        extension="2019-08-14"
        root="1.2.208.184.16.1.10.20.31"/>
      <!-- time is mandatory -->
      <time
        value="20231020124243+0200"/>
      <assignedAuthor>
        <!-- id @root is set to Sundhedsdatastyrelsen -->
        <id
          assigningAuthorityName="Sundhedsdatastyrelsen"
          extension="NI"
          root="1.2.208.176.1.8"/>
        <!-- representedOrganization is mandatory when we don't have an authorPerson -->
        <representedOrganization>
          <name>Sundhedsdatastyrelsen</name>
        </representedOrganization>
      </assignedAuthor>
    </author>
  </observation>
</entry>
```

Figure 10 Citizen's No Resuscitation Registration
Example: Citizen has registered a no resuscitation wish

```
<!-- The citizen's No Resuscitation Registration -->
<entry
  typeCode="COMP">
  <!-- observation of citizen's No Resuscitation Registration -->
  <observation
    classCode="OBS"
    moodCode="EVN">
    <!-- Observation templateId for citizen's No Resuscitation Registration -->
    <templateId
      extension="2023-07-01"
      root="1.2.208.184.16.1.10.20.1.31"/>
    <id
      extension="dbd8639f-5eed-429c-8e20-3e8370ded233"
      root="1.2.208.184"/>
    <code
      code="NoResuscitationRegistration"
      codeSystem="1.2.208.184.100.1"
      codeSystemName="MedCom Message Codes"
      displayName="Registreret fravælg af genoplivningsforsøg v. hjertestop"/>
    <value
      assigningAuthorityName="Sundhedsdatastyrelsen"
```

```

extension="false"
root="1.2.208.176.1.11"
xsi:type="II"/>
<!-- Author of this information is register at Sundhedsdatastyrelsen -->
<author>
  <!-- This templateId is the used when the author of information is a register -->
  <templateId
    extension="2019-08-14"
    root="1.2.208.184.16.1.10.20.31"/>
  <!-- time is mandatory -->
  <time
    nullFlavor="NI"/>
  <assignedAuthor>
    <!-- id @root is set to Sundhedsdatastyrelsen -->
    <id
      assigningAuthorityName="Sundhedsdatastyrelsen"
      extension="NI"
      root="1.2.208.176.1.8"/>
    <!-- representedOrganization is mandatory when we don't have an authorPerson -->
    <representedOrganization>
      <name>Sundhedsdatastyrelsen</name>
    </representedOrganization>
  </assignedAuthor>
</author>
</observation>
</entry>

```

Figure 11 Citizen's No Resuscitation Registration

Example: The citizen has NOT YET made a choice about resuscitation or is not yet in the target group

```

<!-- The citizen's No Resuscitation Registration -->
<entry
  typeCode="COMP">
  <!-- observation of citizen's No Resuscitation Registration -->
  <observation
    classCode="OBS"
    moodCode="EVN">
    <!-- Observation templateId for citizen's No Resuscitation Registration -->
    <templateId
      extension="2023-07-01"
      root="1.2.208.184.16.1.10.20.1.31"/>
    <id
      extension="dbd8639f-5eed-429c-8e20-3e8370ded233"
      root="1.2.208.184"/>
    <code
      code="NoResuscitationRegistration"
      codeSystem="1.2.208.184.100.1"
      codeSystemName="MedCom Message Codes"
      displayName="Registreret fravælg af genoplivningsforsøg v. hjertestop"/>
    <value
      assigningAuthorityName="Sundhedsdatastyrelsen"
      extension="false"
      root="1.2.208.176.1.11"
      xsi:type="II"/>
    <!-- Author of this information is register at Sundhedsdatastyrelsen -->
    <author>
      <!-- This templateId is the used when the author of information is a register -->
      <templateId
        extension="2019-08-14"
        root="1.2.208.184.16.1.10.20.31"/>
      <!-- time is mandatory -->
      <time
        value="20231020124243+0200"/>
      <assignedAuthor>
        <!-- id @root is set to Sundhedsdatastyrelsen -->
        <id
          assigningAuthorityName="Sundhedsdatastyrelsen"
          extension="NI"
          root="1.2.208.176.1.8"/>
        <!-- representedOrganization is mandatory when we don't have an authorPerson -->
        <representedOrganization>
          <name>Sundhedsdatastyrelsen</name>
        </representedOrganization>
      </assignedAuthor>
    </author>
  </observation>
</entry>

```

Figure 12 Citizen's No Resuscitation Registration

Example: The citizen has actively cancelled a 'no resuscitation wish'

```

<!-- The citizen's No Resuscitation Registration -->
<entry
  typeCode="COMP">
  <!-- observation of citizen's No Resuscitation Registration -->
  <observation
    classCode="OBS"
    moodCode="EVN">
    <!-- Observation templateId for citizen's No Resuscitation Registration -->
    <templateId
      extension="2023-07-01"
      root="1.2.208.184.16.1.10.20.1.31"/>
    <id
      extension="dbd8639f-5eed-429c-8e20-3e8370ded233"
      root="1.2.208.184"/>
    <code
      code="NoResuscitationRegistration"
      codeSystem="1.2.208.184.100.1"
      codeSystemName="MedCom Message Codes"
      displayName="Registreret fravælg af genoplivningsforsøg v. hjertestop"/>
    <value
      nullFlavor="NAV"/>
    <!-- Author of this information is register at Sundhedsdatastyrelsen -->
    <author>
      <!-- This templateId is the used when the author of information is a register -->
      <templateId
        extension="2019-08-14"
        root="1.2.208.184.16.1.10.20.31"/>
      <!-- time is mandatory -->
      <time
        nullFlavor="NI"/>
      <assignedAuthor>
        <!-- id @root is set to Sundhedsdatastyrelsen -->
        <id
          assigningAuthorityName="Sundhedsdatastyrelsen"
          extension="NI"
          root="1.2.208.176.1.8"/>
        <!-- representedOrganization is mandatory when we don't have an authorPerson -->
        <representedOrganization>
          <name>Sundhedsdatastyrelsen</name>
        </representedOrganization>
      </assignedAuthor>
    </author>
  </observation>
</entry>

```

Figure 13 Citizen's No Resuscitation Registration

*Example: The register, providing the data card with information about resuscitation, is not active
 "NAV" = "temporarily unavailable" (NullFlavor)*

5.8 Observation: Manually Entered Spoken Language

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

XPath	Card	Verb	CONF#	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)

Table 11: Table

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 [5.13](#) (CONF-DK:364)

```

<!-- 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
      extension="2019-08-14"
      root="1.2.208.184.16.1.10.20.1.20"/>
    <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
      code="de"
      codeSystem="1.0.639.1"
      codeSystemName="ISO-639-1"
      displayName="Tysk"
      xsi:type="CD"/>
    <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>

```

Figure 14: Manually Entered Spoken Language – Example

5.9 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.

XPath	Card	Verb	CONF#	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"
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)

Table 12: Manually Entered Temporary Address - Constraints Overview

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
 - b. This effectiveTime **SHALL** contain exactly one [1..1] low element (CONF-DK:377)
 - a. 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)
 - b. This effectiveTime **SHOULD** contain zero or one [0..1] high element (CONF-DK:379)
 - c. 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 [5.13](#) (CONF-DK:388)

```

<!-- 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
      extension="2019-08-14"
      root="1.2.208.184.16.1.10.20.1.21"/>
    <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>
      </assignedAuthor>
    </author>
  </observation>
</entry>

```

Figure 15: The Citizen's Temporary Address – Example

5.10 Observation: Manually Entered Dentist Information

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

XPath	Card	Verb	CONF#	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, 1.2.208.184 as example
@root	1..1	SHALL	CONF-DK:393	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:515	Example: "Tandlægerne Torvet" Specifying the practice name
@xsi:type	1..1	SHALL	CONF-DK:516	"TN" (Trivial Name)
value	0..1	SHOULD	CONF-DK:400	Dentist name
@xsi:type	1..1	SHALL	CONF-DK:401	"PN" (Person Name)
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
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"
value	0..2	SHOULD	CONF-DK:490	Dentist telecom
@xsi:type	1..1	SHALL	CONF-DK:491	"TEL"
@use	1..1	SHALL	CONF-DK:492	"WP"
@value	1..1	SHALL	CONF-DK:493	"tel : [phone number]" The pattern specified in [CDA-HDR-DK] must be followed, hence spaces are not allowed.
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)

Table 13: Manually Entered Dentist Information - Constraints Overview

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:515) such that it
- a. **SHALL** contain exactly one [1..1] @xsi:type="TN" (CONF-DK:516)
 - b. This value **SHALL** contain the practice name (CONF-DK:515)
6. This observation **MAY** contain exactly one [0..1] value (CONF-DK:400) such that it
- a. **SHALL** contain exactly one [1..1] @xsi:type="PN" (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)
7. 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)
8. This observation **SHOULD** contain up to two [0..2] value (CONF-DK:490) such that it
- a. **SHALL** contain exactly one [1..1] @xsi:type="TEL" (CONF-DK:491)
 - b. **SHALL** contain exactly one [1..1] @use = "WP" selected from value set [6.2](#) (CONF-DK:492)
 - c. **SHALL** contain exactly one [1..1] @value = "tel:AAAAAAA", where AAAAAAA = Phone number (CONF-DK:493)
9. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:411)
- a. This author **SHALL** be specified as described in paragraph [5.13](#) (CONF-DK:412)

```
<!-- 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
      extension="2019-08-14"
      root="1.2.208.184.16.1.10.20.1.22"/>
    <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
      assigningAuthorityName="Yderregisteret"
      extension="654321"
      root="1.2.208.176.1.4"
      xsi:type="II"/>
    <value
      xsi:type="TN">
      Tandlægerne Torvet
    </value>
    <value>
```

```

<xsi:type="PN">
<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/>
<postalCode>DentistpostalCodeTypedIn</postalCode/>
<city>DentistcityTypedIn</city/>
<country>DentistcountryTypedIn</country>/>
</value>
<value
  xsi:type="TEL"
  use="WP"
  value="tel:+4512345678"/>
<value
  xsi:type="TEL"
  use="WP"
  value="tel:+4587654321"/>
<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>

```

Figure 16: Manually Entered Dentist Information – Example

5.11 Observation: Manually Entered Contact Information

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

XPath	Card	Verb	CONF#	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"
@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 [CDA-HDR-DK] 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)

Table 14: Manually Entered Contact Information - Constraints Overview

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:AAAAAAA", where AAAAAAA = Phone number (CONF-DK:427)
5. This observation **SHALL** contain exactly one [1..1] author (CONF-DK:432)
6. This author **SHALL** be specified as described in paragraph [5.13](#) (CONF-DK:433)

```

<!--The citizen's contact information, typed in-->
<entry
  typeCode="COMP">
  <!--bservation of contact information -->
  <observation
    classCode="OBS"
    moodCode="EVN">
    <!--Observation templateId for citizen contactinformation, typed in -->
    <templateId
      extension="2019-08-14"
      root="1.2.208.184.16.1.10.20.1.24"/>
    <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
      use="H"
      value="tel:11223344"
      xsi:type="TEL"/>
    <value
      use="WP"
      value="tel:33112244"
      xsi:type="TEL"/>
    <value
      use="MC"
      value="tel:66774433"
      xsi:type="TEL"/>
    <!--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>

```

Figure 17: Manually Entered Contact Information – Example

5.12 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.

XPath	Card	Verb	CONF#	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 [CDA-HDR-DK] 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"
@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)

Table 15: Manually Entered Relative - Constraints Overview

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 AAAAAAAA = 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 [5.13](#) (CONF-DK:462)

```

<!-- 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
      extension="2019-08-14"
      root="1.2.208.184.16.1.10.20.1.25"/>
    <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>RelativeFamilyNameTypedIn</family>
      </value>
    <value
      use="H"
      value="tel:11223344"
      xsi:type="TEL"/>
    <value
      use="WP"
      value="tel: (46)-55667788-1234"
      xsi:type="TEL"/>
    <value
      use="MC"
      value="tel:99001122"
      xsi:type="TEL"/>
    :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
        extension="2019-08-14"
        root="1.2.208.184.16.1.10.20.30"/>
      <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>

```

Figure 18: Manually Entered Relative's information – Example

5.13 Author Participation of Manually Entered Information

This template represents the author of manually entered information.

XPath	Card	Verb	CONF#	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	"MSK" (NullFlavor) if the citizen or citizens relative has entered the data. The SOR-kode of the organization the healthcare professional is employed in, if a healthcare professional has entered the data
@root	1..1	SHALL	CONF-DK:471	"1.2.208.176.1.2" if the citizen or citizens relative has entered the data. "1.2.208.176.1.1" if a healthcare professional has entered the data.
@assigningAuthorityName	1..1	SHALL	CONF-DK:472	"CPR" if the citizen or citizens relative has entered the data. "SOR" if a healthcare professional has entered the data.
code	1..1	SHALL	CONF-DK:517	Who entered the information
@code	1..1	SHALL	CONF-DK:518	"EnteredCitizen" if the citizen has entered the data. "EnteredCitizenRelative" if the citizens relative has entered the data. "EnteredHealthcareprofessional" if a healthcare professional has entered the data.
@codeSystem	1..1	SHALL	CONF-DK:519	"1.2.208.184.100.1"
@codeSystemName	1..1	SHALL	CONF-DK:520	"MedCom Message Codes"
@displayName	1..1	SHALL	CONF-DK:521	"Indtastet af borger" if the citizen has entered the data. "Indtastet af borgers pårørende" if the citizens relative has entered the data. "Indtastet af sundhedsprofessionel" if a healthcare professional has entered the data.
assignedPerson	0..1	SHALL	CONF-DK:473	Author person is used if the citizen or citizens relative has entered the data.
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
representedOrganization	0..1	SHALL	CONF-DK:522	Represented organization is used if a healthcareprofessional has entered the data.
name	1..1	SHALL	CONF-DK:523	Name of the organization

Table 16: Author Participation of Manually Entered Info. - Constraints Overview

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)
 - a. This assignedAuthor **SHALL** contain exactly one [1..1] id (CONF-DK:469) such that it
 - i. **SHALL** contain exactly one [1..1] @extension = "MSK" if the citizen or citizens relative is data enterer or @extension = SOR-kode if a healthcare professional is data enterer (CONF-DK:470)

- ii. **SHALL** contain exactly one [1..1] @root="1.2.208.176.1.2" if the citizen or citizens relative is data enterer or @root="1.2.208.176.1.2" if a healthcare professional is data enterer (CONF-DK:471)
- iii. **SHALL** contain exactly one [1..1] @assigningAuthorityName="CPR" if the citizen or citizens relative is data enterer or "SOR" if a healthcare professional is data enterer (CONF-DK:472)
- b. This assignedAuthor **SHALL** contain exactly one [1..1] code (CONF-DK:517) such that it
 - i. **SHALL** contain exactly one [1..1] @code = "EnteredCitizen" if the citizen is data enterer, @code = "EnteredCitizenRelative" if the citizens relative is data enterer, or @code = "EnteredHealthcareprofessional" if a healthcare professional is data enterer (CONF-DK:518)
 - ii. **SHALL** contain contain exactly one [1..1] @codeSystem = "1.2.208.184.100.1" (CONF-DK:519)
 - iii. **SHALL** contain contain exactly one [1..1] @codeSystemName = "MedCom Message Codes" (CONF-DK:520)
 - iv. **SHALL** contain contain exactly one [1..1] @displayName = "Indtastet af borger" if the citizen is data enterer, @displayName = "Indtastet af borgers pårørende" if the citizens relative is data enterer, or @displayName = "Indtastet af sundhedsprofessionel" if a healthcare professional is data enterer (CONF-DK:521)
- c. This assignedAuthor **SHALL** contain exactly one [0..1] assignedPerson if the data enterer is the citizen or citizens relative (CONF-DK:473)
 - i. This assignedPerson **SHALL** contain exactly one [1..1] name (CONF-DK:474)
 - 1. This name **SHALL** contain one or more [1..*] given = First and middle names of the author person (CONF-DK:475)
 - 2. This name **SHALL** contain exactly one [1..1] family = The sir name of the author person (CONF-DK:476)
 - d. This assignedAuthor **SHALL** contain exactly one [0..1] representedOrganization if the data enterer is a healthcareprofessional from an organization (CONF-DK:522)
 - i. This representedOrganization **SHALL** contain exactly one [1..1] name (CONF-DK:523)
 - 1. This name **SHALL** contain exactly one [1..1] name (CONF-DK:523)

```
<!-- Typed in by the citizen: -->
<author>
  <templateId
    extension="2019-08-14"
    root="1.2.208.184.16.1.10.20.30"/>
  <time
    value="20230612155810+0200"/>
  <assignedAuthor>
    <id
      assigningAuthorityName="CPR"
      extension="MSK"
      root="1.2.208.176.1.2"/>
    <code
      code="EnteredCitizen"
      codeSystem="1.2.208.184.100.1"
      codeSystemName="MedCom Message Codes"
      displayName="Indtastet af borger"/>
    <assignedPerson>
      <name>
        <given>Bente</given>
        <given>Kirkegård</given>
        <family>Knudsen</family>
      </name>
    </assignedPerson>
  </assignedAuthor>
</author>
```

Figure 19: Author Participation of Manually Entered Info. – Example

```
<!-- Typed in by a healthcare professional: -->
<author>
  <templateId
    extension="2019-08-14"
    root="1.2.208.184.16.1.10.20.30"/>
  <time
    value="20230612155810+0200"/>
  <assignedAuthor>
    <id
      assigningAuthorityName="SOR"
      extension="953741000016009"
      root="1.2.208.176.1.1"/>
    <code
```

```

    code="EnteredHealthcareprofessional"
    codeSystem="1.2.208.184.100.1"
    codeSystemName="MedCom Message Codes"
    displayName="Indtastet af sundhedsprofessionel"/>
  <representedOrganization>
    <name>Plejecenter Herlev</name>
  </representedOrganization >
</assignedAuthor>
</author>

```

Figure 20: Author Participation of Manually Entered Info. – Example

5.14 Author of Information from a Register

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

XPath	Card	Verb	CONF#	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

Table 17: Author of Information from a Register - Constraints Overview

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 "YYYYMMDDTTMMSS + 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)

```

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

```

```
<representedOrganization>
  <name>Dansk Center For Organdonation</name>
</representedOrganization>
</assignedAuthor>
</author>
```

Figure 21: Author of Information from a Register - Example

6 APPENDIX A: VALUE SETS

6.1 DK templateId's used

TemplateId	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
1.2.208.184.16.1.10.20.1.31:2023-07-01	Observation of citizen's no resuscitation 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

Table 18: DK templateId's used

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](https://svn.medcom.dk/svn/releases/Standarder/HL7/CDA%20Header/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](https://svn.medcom.dk/svn/drafts/Klassifikationer/MedCom%20Relation%20Codes.xlsx)

6.4 MedCom Message Codes

For value set please see:

[https://svn.medcom.dk/svn/drafts/Klassifikationer/MedCom Message Codes.xlsx](https://svn.medcom.dk/svn/drafts/Klassifikationer/MedCom%20Message%20Codes.xlsx)

6.5 Sygesikringen Coverage Groups

Group	Description
1	Selvstændig sikret - med lægevalg
2	Selvstændig sikret - uden lægevalg
3	Benyttes ikke
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, ihjelslagte, (personer der har haft 2 CPR-numre), forsvundne eller om nummererede
9	Sikrede er død

Table 19: Sygesikringen Coverage Groups

6.6 Text References

Reference Id	Description
CDA-HDR-DK	HL7 Implementation Guide for CDA R2, CDA Header (DK CDA Header). https://svn.medcom.dk/svn/releases/Standaerde/HL7/CDA%20Header/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]

Table 20: Text References