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Implementation Guide for CDA Release 2.0  
Personal Health Care Monitoring Report (PHMR)

DK profile

Data content

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# 1 CDA HEADER

## 1.1 ClinicalDocument (DK header)

```
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
classCode="DOCCLIN" moodCode="EVN">
  <typeId extension="POCD_HD000040" root="**TBD"/>
  <id extension="**TBD" root="**TBD"/>
  <code code="**TBD" codeSystem="**TBD" codeSystemName="**TBD" displayName="Personal Health
Monitoring Report"/>
  <title>PHMR for patient 010189-1626</title>
  <effectiveTime value="20130912120522"/>
  <confidentialityCode code="N" codeSystem="**TBD"/>
  <languageCode code="da-DK"/>
```

**Figure 1. ClinicalDocument (DK header) XML example**

### /ClinicalDocument

Conformance Number	Required/Cardinality	Data Type
1	R 0..1	Clinical Document
Description	The @classCode and @moodCode values of this element are specified as shown in the example below.	
Example	<pre>&lt;ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:xsi="http://www.w3.org/2001/XMLScema-instance" classCode="DOCCLIN" moodCode="EVN"&gt; : &lt;/ClinicalDocument&gt;</pre>	

### /ClinicalDocument/typeId

Conformance Number	Required/Cardinality	Data Type
2	R 1..1	II
Description	The element identifies the constraints imposed by CDA R2 on the content, essentially acting as a version identifier. The @root and @extension values of this element are specified as shown in the example below.	
Example	<pre>&lt;typeId extension="POCD_HD000040" root="**TBD: MedCom OID"/&gt;</pre>	

### /clinicalDocument/id

Conformance Number	Required/Cardinality	Data Type
3	R 1..1	II
Description	The /ClinicalDocument/id is a globally unique identifier for the document. The PHMR DK-profile has constrained the root attribute to be an OID. The root and extension attributes together then identifies the document.	
Example	<code>&lt;id extension="**TBD" root="** TBD MedCom OID"/&gt;</code>	

#### /ClinicalDocument/code

Conformance Number	Required/Cardinality	Data Type
4	R 1..1	CE
Description	The /ClinicalDocument/code specifies the particular kind of the clinical document (Personal Health Monitoring Report). The /ClinicalDocument/code shall be set in accordance to the Master value catalog, tab classCodes. (** TBD: check Master value catalog).	
Example	<code>&lt;code code="** TBD" codeSystem="** TBD: MedCom OID" displayName=" Personal Health Monitoring Report" /&gt;</code>	

#### /ClinicalDocument/title

Conformance Number	Required/Cardinality	Data Type
5	R 0..1	ST
Description	The /ClinicalDocument/title can either be a locally defined name or the display name corresponding to the /ClinicalDocument/code.	
Example	<code>&lt;title&gt;Personal Health Monitoring Report for cpr: ddmmyy-xxxx&lt;/title&gt;</code>	

#### /ClinicalDocument/effectiveTime

Conformance Number	Required/Cardinality	Data Type
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6	R 1..1	TS
Description	<p>The /ClinicalDocument/effectiveTime element specifies the creation time of the document.</p> <p>If the document was transformed from an original report, the effective time is the creation time of the original document.</p> <p>The /ClinicalDocument/effectiveTime shall be precise to the second including an offset from UTC.</p>	
Example	<effectiveTime value= "20131130171504+0100"/>	

/ClinicalDocument/confidentialityCode

Conformance Number	Required/Cardinality	Data Type
7	R 1..1	CE
Description	<p>The @code value should be selected from ValueSet HL7 BasicConfidentialityKind.</p> <p>The @code value of this element in the DK profile is constrained to be "N" (Normal). Other values are not allowed.</p>	
Example	<confidentialityCode code='N' codeSystem="**TBD: MedCom OID"/>	

Code	Code system	Print name
N	Confidentiality Code	Normal
R	Confidentiality Code	Restricted
V	Confidentiality Code	Very Restricted

**Table 1. Basic Confidentiality Kind Value Set**

/ClinicalDocument/languageCode

Conformance Number	Required/Cardinality	Data Type
8	R 0..1	CS
Description	<p>The /ClinicalDocument/languageCode element specifies the language of the report which shall be selected from ValueSet Language.</p>	

Example	<languageCode= "da-DK"/>
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Code	Code system	Print name
en	Internet society Language	english
fr	Internet society Language	frensh
ar	Internet society Language	arabic
..		
da-DK	Internet society Language	danish

**Table 2. Language Value Set (ISO 639 - [www.ietf.org/rfc/rfc4646.txt](http://www.ietf.org/rfc/rfc4646.txt))**

## 1.2 RecordTarget

The recordTarget element must be present. It records the patient whose health information is described in the clinical document.

```

<recordTarget contextControlCode="OP" typeCode="RCT">
  <patientRole classCode="PAT">
    <id extension="010189-1626" root="**TBD"/>
    <addr>
      <streetAddressLine>Åvej 12, 1 th</streetAddressLine>
      <postalCode>8010</postalCode>
      <country>Danmark</country>
    </addr>
    <telecom value="tel:64294829"/>
    <patient classCode="PSN" determinerCode="INSTANCE">
      <name>
        <given>Nancy</given>
        <given>Ann</given>
        <family>Berggren</family>
      </name>
      <administrativeGenderCode code="F" codeSystem="**TBD"/>
      <birthTime value="19891648"/>
    </patient>
  </patientRole>
</recordTarget>

```

**Figure 2. recordTarget XML example**

/ClinicalDocument/recordTarget

Conformance Number	Required/Cardinality	Data Type
9	R 1..*	SET <RecordTarget>
Description	The /ClinicalDocument/recordTarget records the patient whose health information is described by the	

	clinical document. The @contextControlCode and @codeSystem values of this element are specified as shown in the example below.
Example	<recordTarget contextControlCode="**TBD" codeSystem="**TBD: MedCom OID"> : </recordTarget>

### 1.2.1 PatientRole

#### /ClinicalDocument/recordTarget/patientRole

Conformance Number	Required/Cardinality	Data Type
10	R 1..1	SET <RecordTarget>
Description	Shall contain exactly one [1..1] patientRole. The @classCode values of this element in the DK profile is constrained to "PAT" (patient). **TBD: Other values (citizen)?	
Example	<patientRole classCode="PAT"> : </patientRole>	

#### /ClinicalDocument/recordTarget/patientRole/id

Conformance Number	Required/Cardinality	Data Type
11	R 1..*	SET <II>
Description	This element holds the Personal Identifier for the patient.  The DK profile is constrained only to hold valid Danish CPR numbers (see xx).  The @extension value holds the Danish CPR number and the @root is the associated OID.	
Example	<patientRole/id extension="010280-1234" root="**TBD: MedCom OID"/>	

#### /ClinicalDocument/recordTarget/patientRole/addr

Conformance Number	Required/Cardinality	Data Type
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12	R 0..*	SET <AD>
Description	<p>This element holds the patient address. Multiple addresses are supported.</p> <p>The content of the addr element shall be conformant to DK Address (see xx).</p>	
Example	<pre>&lt;addr&gt;   &lt;streetAddressLine&gt;Åvej 12, 1 th&lt;/streetAddressLine&gt;   &lt;postalCode&gt;8010&lt;/postalCode&gt;   &lt;country&gt;DK&lt;/country&gt; &lt;/addr&gt;</pre>	

/ClinicalDocument/recordTarget/patientRole/telecom

Conformance Number	Required/Cardinality	Data Type
13	R 0..*	SET <TEL>
Description	<p>At least one telecom element shall be present. When unknown use appropriate Null Flavor.</p> <p>Multiple telecoms are supported.</p> <p>The @value value hold the telecomnumber with a prefix (tel=Telephone; fax=Telefax).</p> <p>The content of the @use value shall be conformant to Table 3.</p>	
Example	<pre>&lt;telecom value="tel: 661111111" use="HP"/&gt;</pre>	

Code	Code system	Print name
HP	Address Use	Primary home
WP	Address Use	Work place
MC	Address Use	Mobile contact
HV	Address Use	Vacation home

**Table 3. Telecom Use (US Realm Header) Value Set**

1.2.1.1 Patient

/ClinicalDocument/recordTarget/patientRole/patient

Conformance Number	Required/Cardinality	Data Type
14	R 0..1	Patient



Description	The @classCode values of this element in the DK profile is constrained to "PSN".  The @determinerCode values of this element in the DK profile is constrained to "INSTANCE".
Example	<patient classCode="PSN" determinerCode="INSTANCE" : </patient>

/ClinicalDocument/recordTarget/patientRole/patient/name

Conformance Number	Required/Cardinality	Data Type
15	R 1..*	SET <PN>
Description	The element shall contain exactly one [1..1] name.  The content of the name shall be conformant to DK name (see xx).	
Example	<name> <given>Nancy</given> <given>Ann</given> <family>Berggren</family> </patient>	

/ClinicalDocument/recordTarget/patientRole/patient/administrativeGenderCode

Conformance Number	Required/Cardinality	Data Type
16	R 0..*	CE
Description	The element shall contain exactly one [1..1] administrativeGenderCode.  The content of the @code value shall be conformant to Table 4.	
Example	<administrativeGenderCode code="F" codeSystem="**TBD: MedCom OID">	

Code	Code system	Print name
F	AdministrativeGender	Female
M	AdministrativeGender	Male
UN	AdministrativeGender	Undifferentiated

**Table 4- Administrative Gender (HL7) Value Set**

/ClinicalDocument/recordTarget/patientRole/patient/birthTime

Conformance Number	Required/Cardinality	Data Type
17	R 0..*	TS
Description	The element shall contain exactly one [1..1] birthTime. The content of the @value value shall be conformant to DK Time (see xx).	
Example	<birtTime @value="19890325"/>	

### 1.3 Author

The author element represents the creator of the clinical document. The author may be a device, or a person.

\*\*TBD: Who is the author of DK PHMR?

```

<author contextControlCode="OP" typeCode="AUT">
  <time value="20130912120522"/>
  <assignedAuthor classCode="ASSIGNED">
    <id extension="**TBD" root="**TBD"/>
    <addr>
      <streetAddressLine>Åvej 12, 1 th</streetAddressLine>
      <postalCode>5230</postalCode>
      <country>Danmark</country>
    </addr>
    <telecom value="tel:66111111"/>
    <assignedPerson>
      <name>
        <given>Ole</given>
        <family>Olsen</family>
      </name>
    </assignedPerson>
  </assignedAuthor>
</author>

```

**Figure 3. Author XML example**

/ClinicalDocument/author

Conformance Number	Required/Cardinality	Data Type
18	R 1..*	SET <author>

Description	The @contextControlCode value of this element shall by default set to "OP".  The @determinerCode value of this element shall by default set to "AUT".
Example	<author contextControlCode="OP" typeCode="AUT"/>

/ClinicalDocument/author/time

Conformance Number	Required/Cardinality	Data Type
19	R 1..1	TS
Description	The author/time element represents the start time of the author's participation in the creation of the clinical document  The @value value of this element shall use the format YYYYMMDDTTMMSS.	
Example	<time value="20130912120522"/>	

/ClinicalDocument/author/assignedAuthor

Conformance Number	Required/Cardinality	Data Type
20	R 1..1	AssignedAuthor
Description	The element shall contain exactly one [1..1] assignedAuthor.  The @classCode value of this element shall by default set to "ASSIGNED".	
Example	<assignedAuthor classcode="ASSIGNED"> : </assignedAuthor>	

/ClinicalDocument/author/assignedAuthor/id

Conformance Number	Required/Cardinality	Data Type
21	R 1..*	SET II
Description	The element shall contain exactly one [1..1] assignedAuthor.	

	The @classCode value of this element shall by default set to "ASSIGNED".
Example	<assignedAuthor classcode="ASSIGNED"> : </assignedAuthor>

/ClinicalDocument/author/assignedAuthor/addr

Conformance Number	Required/Cardinality	Data Type
22	R 0..*	SET AD
Description	The element shall contain at least one [1..*] addr.  The content of the addr element shall be conformant to DK Address (see xx).	
Example	<addr> : </addr>	

/ClinicalDocument/author/assignedAuthor/telecom

Conformance Number	Required/Cardinality	Data Type
23	R 0..*	SET <TEL>
Description	At least one telecom element shall be present. When unknown use appropriate Null Flavor.  Multiple telecoms are supported.  The @value value hold the telecomnumber with a prefix (tel=Telephone; fax=Telefax).  The content of the @use value shall be conformant to Table 3.	
Example	<telecom value="tel: 66111111" use="HP"/>	

**1.3.1.1 AssignedAuthorChoice**

\*\*TBD: assignedPerson and/or assignedAuthoringDevice?

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## 1.4 dataEnterer

The `dataEnterer` element represents the person who transferred the information from other sources into the clinical document, where the other sources wrote the content of the note. The guiding rule of thumb is that an author provides the content found within the header or body of the document subject to their own interpretation. The data enterer adds information to the electronic system. A person can participate as both author and data enterer.

\*\*TBD.

## 1.5 informant

The `informant` element describes the source of the information in a medical document. The `informant` element **MAY** be present.

\*\*TBD: Will we use this in DK? PHMR data will be shared via KIH? Other way of sharing PHMR-data?

## 1.6 Custodian

The `custodian` element represents the organization that is in charge of maintaining the document. The custodian is the steward that is entrusted with the care of the document. Every CDA document has exactly one custodian. The custodian participation satisfies the CDA definition of Stewardship. Because CDA is an exchange standard and may not represent the original form of the authenticated document (e.g., CDA could include scanned copy of original), the custodian represents the steward of the original source document. The custodian may be the document originator, a health information exchange, or other responsible party.

\*\* TBD: Who is responsible for maintaining the PHMR document?

```

<custodian typeCode="CST">
  <assignedCustodian classCode="ASSIGNED">
    <representedCustodianOrganization classCode="ORG" determinerCode="INSTANCE">
      <id extension="**TBD" root="**TBD"/>
      <name>**TBD</name>
      <telecom value="tel:65123456"/>
      <addr>
        <streetAddressLine>Åvej 12, 1th</streetAddressLine>
        <postalCode>5000</postalCode>
        <country>Danmark</country>
      </addr>
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>

```

**Figure 4. Custodian XML example.**

/ClinicalDocument/custodian

Conformance Number	Required/Cardinality	Data Type
24	R 1..1	Custodian
Description	The @typeCode value of this element shall by default set to "CST".	
Example	<pre> &lt;custodian typeCode="CST"&gt; : &lt;/custodian </pre>	

/ClinicalDocument/custodian/assignedCustodian

Conformance Number	Required/Cardinality	Data Type
25	R 1..1	AssignedCustodian
Description	The @classCode value of this element shall by default set to "ASSIGNED".	
Example	<pre> &lt;assignedCustodian classCode="ASSIGNED"&gt; : &lt;/assignedCustodian&gt; </pre>	

/ClinicalDocument/custodian/assignedCustodian/representedCustodianOrganization

Conformance Number	Required/Cardinality	Data Type
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26	R 1..1	CustodianOrganization
Description	<p>The @classCode value of this element shall by default set to "ORG".</p> <p>The @determinerCode value of this element shall by default set to "INSTANCE".</p>	
Example	<pre>&lt;representedCustodianOrganization classCode="ORG" determinerCode="INSTANCE"&gt; : &lt;/representedCustodianOrganisation&gt;</pre>	

/ClinicalDocument/custodian/assignedCustodian/representedCustodianOrganization/id

Conformance Number	Required/Cardinality	Data Type
27	R 1..*	SET II
Description	<p>The id element holds the identifier for the Custodian Organization.</p> <p>The @extension value holds the organization number and the @root is the associated OID.</p>	
Example	<pre>&lt;representedCustodianOrganization/id extension="**TBD" root="**TBD MedCom OID"/&gt;</pre>	

/ClinicalDocument/custodian/assignedCustodian/representedCustodianOrganization/name

Conformance Number	Required/Cardinality	Data Type
28	0 0..1	ON
Description	<p>The representedCustodianOrganization shall contain exactly one [1..1] name for the Custodian Organization.</p>	
Example	<pre>&lt;representedCustodianOrganization/name&gt;Test org. name&lt; representedCustodianOrganization/name &gt;</pre>	

/ClinicalDocument/custodian/assignedCustodian/representedCustodianOrganization/telecom

Conformance Number	Required/Cardinality	Data Type
--------------------	----------------------	-----------

29	0 0..1	TEL
Description	<p>One telecom element shall be present. When unknown use appropriate Null Flavor.</p> <p>Multiple telecoms are supported.</p> <p>The @value value hold the telecomnumber with a prefix (tel=Telephone; fax=Telefax).</p> <p>The content of the @use value shall be conformant to Table 3.</p>	
Example	<telecom value="tel: 66111111" use="HP"/>	

/ClinicalDocument/custodian/assignedCustodian/representedCustodianOrganization/addr

Conformance Number	Required/Cardinality	Data Type
30	0 0..1	AD
Description	<p>The element shall contain one [1..1] addr.</p> <p>The content of the addr element shall be conformant to DK Address (see xx).</p>	
Example	<pre>&lt;addr&gt; : &lt;/addr&gt;</pre>	



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## 2 CDA BODY

In a CDA-document the body makes up the human-readable text of the document. To be human-readable all sections shall contain a title and a text section.

### 2.1 documentationOf

\*\* TBD: Insert documentationOf XML-example

/ClinicalDocument/documentationOf

/ClinicalDocument/documentationOf/serviceEvent

/ClinicalDocument/documentationOf/serviceEvent/effecticeTime

### 2.2 component