

Health & Care Information Model: nl.nfu.HeartRate-v1.2

Status:Final

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1. nl.nfu.HeartRate-v1.2

DCM::CoderList	Kerngroep Registratie aan de Bron
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::CreationDate	29-11-2012
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	NFU
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.12.3
DCM::KeywordList	hartfrequentie, vitale parameters, hartslag
DCM::LifecycleStatus	Final
DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.nfu.Hartfrequentie
DCM::PublicationDate	1-4-2015
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	1-4-2015
DCM::Superseeds	
DCM::Version	1.2
HCIM::PublicationLanguage	EN

1.1 Revision History

Publicatieversie 1.0 (15-02-2013)

Publicatieversie 1.1 (01-07-2013)

Publicatieversie 1.2 (01-04-2015)

Bevat: ZIB-141, ZIB-234, ZIB-308, ZIB-360.

Incl. algemene wijzigingsverzoeken:

ZIB-94, ZIB-154, ZIB-200, ZIB-201, ZIB-309, ZIB-324, ZIB-326.

1.2 Concept

The heart frequency is the number of heartbeats per minute.

1.3 Mindmap

1.4 Purpose

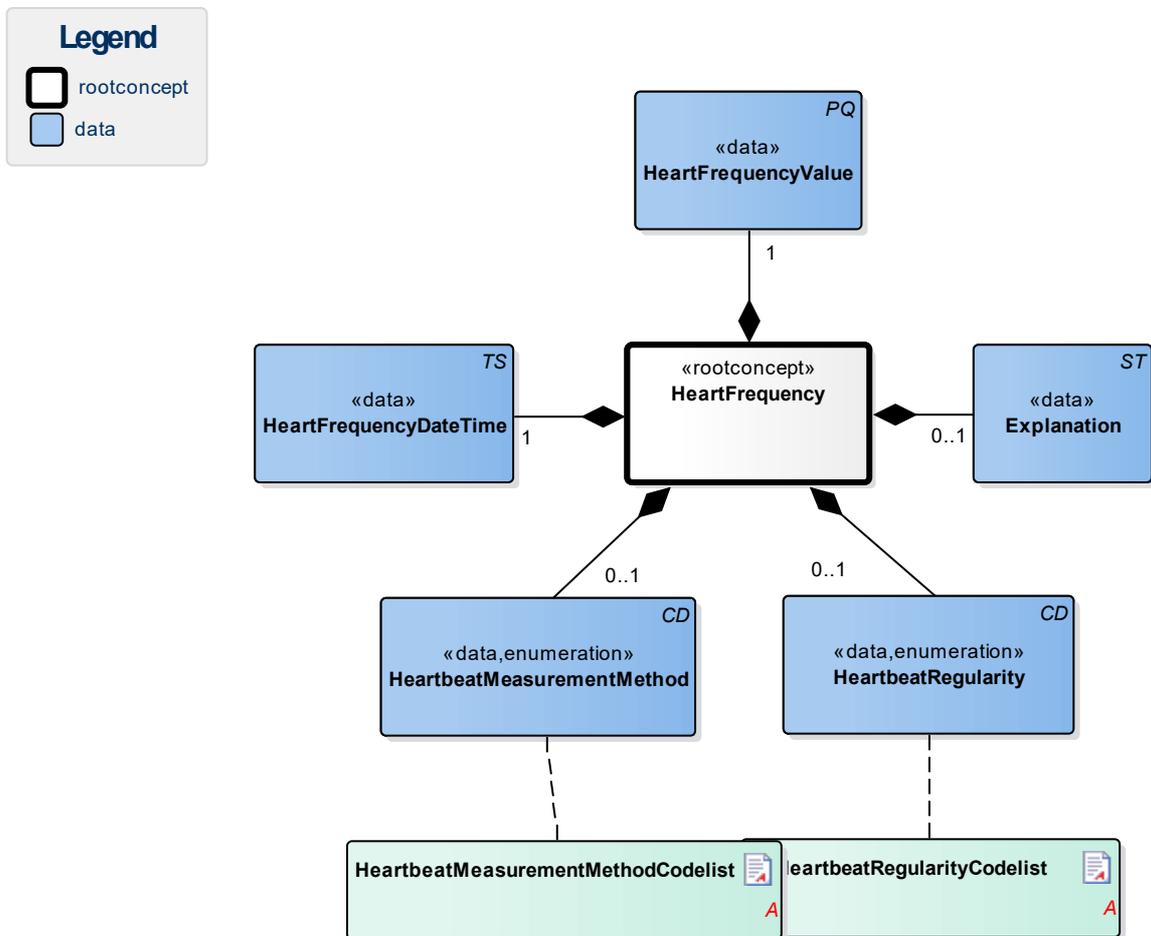
Obtaining information on circulation and heart function by measuring the heartbeat.

1.5 Patient Population

1.6 Evidence Base

Heart frequency (electric or auscultatory rhythm of the ventricles) and pulse rate (tangible output in the peripheral arteries) are physiologically different things, but produce the same values in normal circulation (beats per minute) and are therefore used interchangeably by many healthcare providers (and laymen). This is however incorrect, as a patient's pulse rate can be lower than their heart frequency. Nevertheless, in daily practice, the pulse is usually palpated to measure heart frequency and also written down as the heart frequency. For this reason, the HeartFrequency building block, in addition to the PulseRate building block, offers the option to enter palpation as the HeartbeatMeasurementMethod.

1.7 Information Model



«rootconcept»	HeartFrequency
Definitie	Root concept of the HeartFrequency building block. This root concept contains all data elements of the HeartFrequency building block.
Datatype	
DCM::ConceptId	NL-CM:12.3.1
Opties	

«data»	HeartFrequencyValue
Definitie	The heart frequency measured as the number of heartbeats per minute.

Datatype	PQ	
DCM::ConceptId	NL-CM:12.3.2	
DCM::DefinitionCode	SNOMED CT: 364075005 Heart Rate (Observable Entity)	
DCM::ExampleValue	76/min	
Opties		

«data»	HeartFrequencyDateTime	
Definitie	Date and time of the heart frequency measurement.	
Datatype	TS	
DCM::ConceptId	NL-CM:12.3.4	
Opties		

«data»	HeartbeatMeasurementMethod	
Definitie	The method used to count and observe the heartbeat.	
Datatype	CD	
DCM::ConceptId	NL-CM:12.3.6	
DCM::ValueSet	HeartbeatMeasurementMethodCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.3.2
Opties		

«data»	Explanation	
Definitie	Explanation of any problems or factors that may influence the measurement. Further explanation can be provided here as well.	
Datatype	ST	
DCM::ConceptId	NL-CM:12.3.3	
Opties		

«data»	HeartbeatRegularity	
Definitie	Regularity of the heartbeat.	
Datatype	CD	
DCM::ConceptId	NL-CM:12.3.5	
DCM::ValueSet	HeartbeatRegularityCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.3.1
Opties		

«document»	HeartbeatMeasurementMethodCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.12.3.2	
Opties		

HartslagMeetMethodeCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.3.2	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Palpation	113011001	SNOMED CT	2.16.840.1.113883.6.96	Palpatie
Auscultation	37931006	SNOMED CT	2.16.840.1.113883.6.96	Auscultatie
Cardiac monitoring	88140007	SNOMED CT	2.16.840.1.113883.6.96	Cardiale monitoring

ECG	46825001	SNOMED CT	2.16.840.1.113883.6.96	Electrocardiografie
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«document»		HeartbeatRegularityCodelist		
Definitie				
Datatype				
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.12.3.1		
Opties				
HartslagRegelmatigheidCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.3.1		
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Heart regular	271636001	SNOMED CT	2.16.840.1.113883.6.96	Hartslag regelmatig
Heart irregular	248650006	SNOMED CT	2.16.840.1.113883.6.96	Hartslag onregelmatig

1.8 Example Instances

Hartfrequentie DatumTijd	Hartfrequentie Waarde	Hartslag Methode	Hartslag Regelmatigheid	Toelichting
08-02-2013 6:43	126/min	Auscultatie	Hartslag onregelmatig	Misschien bigeminie?

1.9 Instructions

A Holter registration is a 24-hour ECG: an ECG with a very long measuring period.

1.10 Interpretation

1.11 Care Process

1.12 Example of the Instrument

1.13 Constraints

1.14 Issues

1.15 References

1. Parelsnoer DCM Hartslag v0.98. [Online] Beschikbaar op: <http://www.nictiz.nl/uploaded/FILES/htmlcontent/dcm/parelsnoer/Hartslag%20v0.64.pdf> [Geraadpleegd:

19 februari 2015].

2. openEHR-EHR-OBSERVATION.heart_rate.v1 [Online] Beschikbaar op: <http://www.openehr.org/knowledge/> [Geraadpleegd: 19 februari 2015].

1.16 Functional Model

1.17 Traceability to other Standards

1.18 Disclaimer

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