

Health&Care Information Model: nl.zorg.Hartfrequentie

Final

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1. nl.zorg.Hartfrequentie-v3.0

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	PM
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.zorg.Hartfrequentie
DCM::PublicationDate	1-5-2016
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	1-4-2015
DCM::Superseeds	nl.nfu.Hartfrequentie-v1.2
DCM::Version	3.0

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.

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-453

1.2 Concept

The heart frequency is the number of heartbeats per minute.

1.3 Mindmap

1.4 Purpose

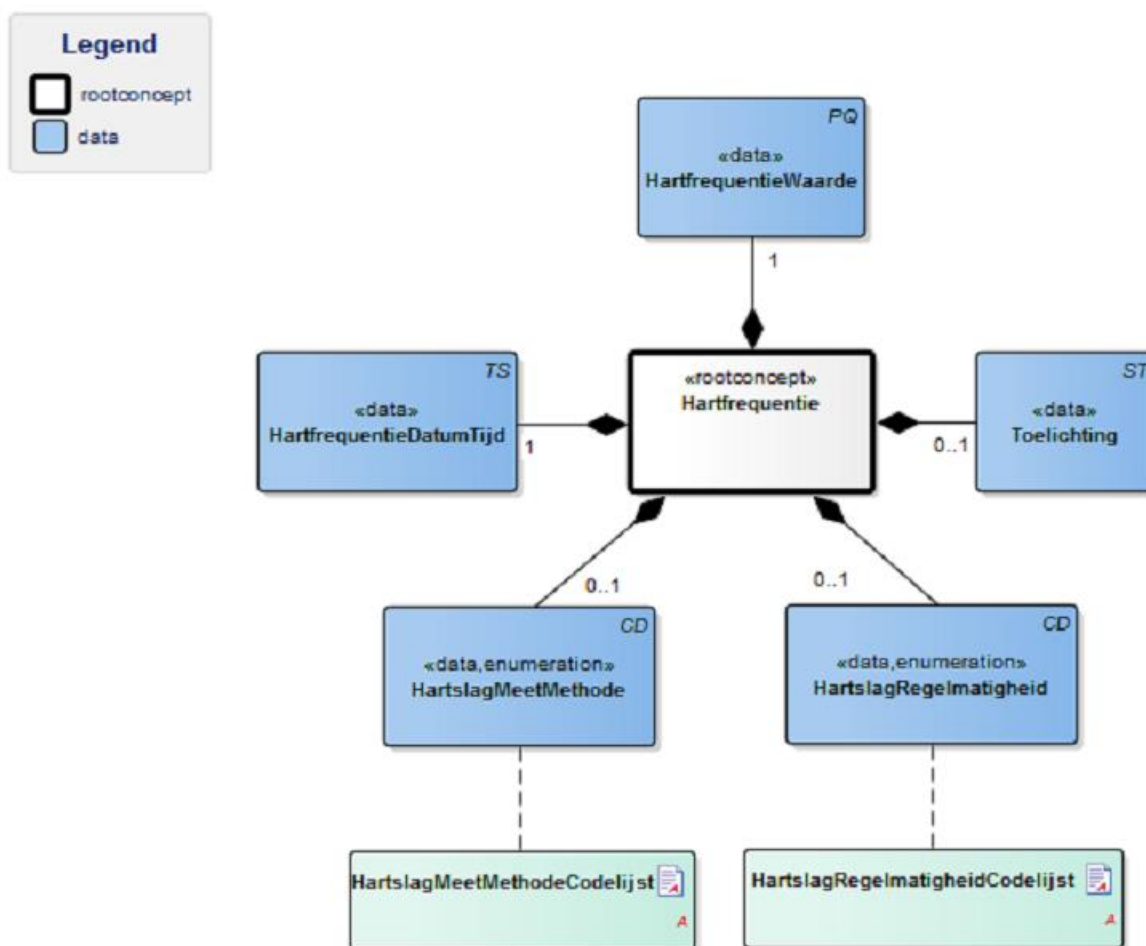
Obtaining information on circulation and heart function by measuring the heartbeat.

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 information model, in addition to the PulseRate information model, offers the option to enter palpation as the HeartbeatMeasurementMethod.

1.7 Information Model



«rootconcept»	Hartfrequentie
Alias	EN: HeartFrequency
Definition	Root concept of the HeartFrequency information model. This root concept contains all data elements of the HeartFrequency information model.
Datatype	
DCM::DefinitionCode	NL-CM:12.3.1
Options	

«data»		HartfrequentieWaarde	
Alias	EN: HeartFrequencyValue		
Definition	The heart frequency measured as the number of heartbeats per minute.		
Datatype	PQ		
DCM::DefinitionCode	SNOMED CT: 364075005 Heart Rate (Observable Entity)		
DCM::DefinitionCode	NL-CM:12.3.2		
DCM::ExampleValue	76/min		
Options			

«data»		HartfrequentieDatumTijd	
Alias	EN: HeartFrequencyDateTime		
Definition	Date and time of the heart frequency measurement.		
Datatype	TS		
DCM::DefinitionCode	NL-CM:12.3.4		
Options			

«data»		HartslagMeetMethode	
Alias	EN: HeartbeatMeasurementMethod		
Definition	The method used to count and observe the heartbeat.		
Datatype	CD		
DCM::DefinitionCode	NL-CM:12.3.6		
DCM::ValueSet	HartslagMeetMethodeCodeli jst	OID:	2.16.840.1.113883.2.4.3.11.60.40.2.12.3.2
Options			

«data»		Toelichting	
Alias	EN: Explanation		
Definition	Explanation of any problems or factors that may influence the measurement. Further explanation can be provided here as well.		
Datatype	ST		
DCM::DefinitionCode	NL-CM:12.3.3		
Options			

«data»		HartslagRegelmatigheid	
Alias	EN: HeartbeatRegularity		
Definition	Regularity of the heartbeat.		
Datatype	CD		
DCM::DefinitionCode	NL-CM:12.3.5		
DCM::ValueSet	HartslagRegelmatigheidCode lijst	OID:	2.16.840.1.113883.2.4.3.11.60.40.2.12.3.1
Options			

«document»		HartslagMeetMethodeCodelijs	
Alias			
Definition			
Datatype			

Options				
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

«document»		HartslagRegelmatigheidCodelijst		
Alias				
Definition				
Datatype				
Options				
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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