

Zorginformatiebouwsteen:

nl.zorg.HeartRate-v3.4.1

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Inhoudsopgave

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1. nl.zorg.HeartRate-v3.4.1

| | |
|---------------------------------|--|
| 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 | 15-10-2023 |
| DCM::PublicationStatus | Prepublished |
| DCM::ReviewerList | Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron |
| DCM::RevisionDate | 17-11-2021 |
| DCM::Supersedes | nl.zorg.Hartfrequentie-v3.4 |
| DCM::Version | 3.4.1 |
| 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.

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-453.

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-431, ZIB-549, ZIB-564.

Publicatieversie 3.2 (01-10-2018)

Bevat: ZIB-509.

Publicatieversie 3.3 (06-07-2019)

Bevat: ZIB-732.

Publicatieversie 3.4 (01-09-2020)

Bevat: ZIB-881.

1.2 Concept

The heart rate is the number of heartbeats per minute.

1.3 Mindmap

1.4 Purpose

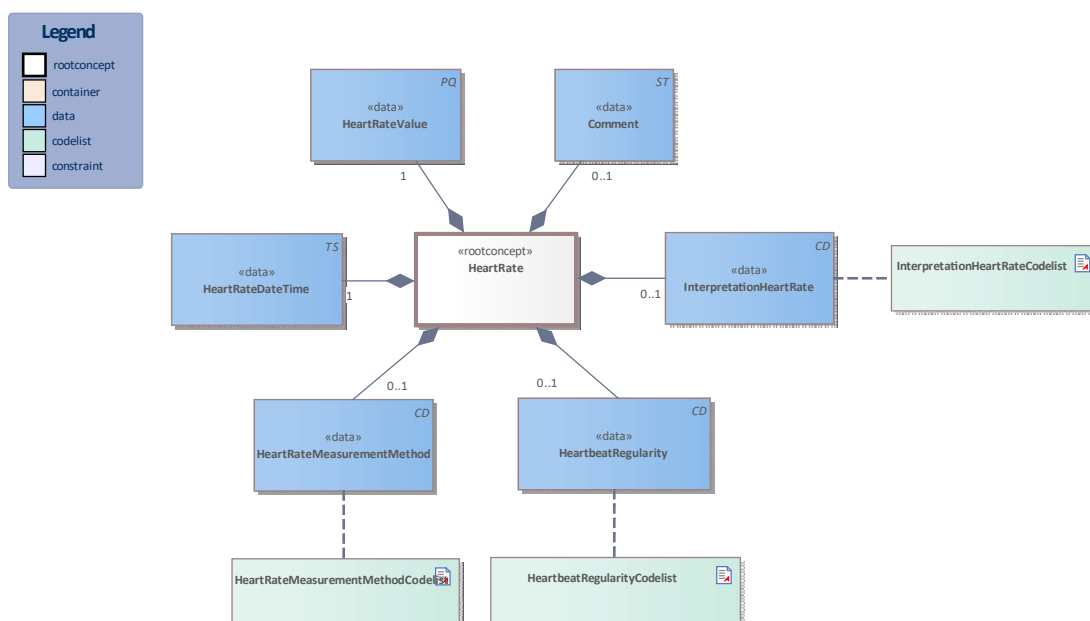
Obtaining information on circulation and heart function by measuring the heartrate.

1.5 Patient Population

1.6 Evidence Base

Heart rate (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 rate. Nevertheless, in daily practice, the pulse is usually palpated to measure heart rate and also written down as the heart rate. For this reason, the HeartRate information model, in addition to the PulseRate information model, offers the option to enter palpation as the HeartRateMeasurementMethod.

1.7 Information Model



| «rootconcept» | HeartRate |
|---------------|---|
| Definitie | Root concept of the HeartRate information model. This root concept contains all data elements of the HeartRate information model. |

| | | |
|----------------------------|--|--|
| Datatype | | |
| DCM::ConceptId | NL-CM:12.3.1 | |
| DCM::DefinitionCode | SNOMED CT: 106066004 Cardiac rhythm AND/OR rate finding | |
| Opties | | |

| | | |
|----------------------------|---|--|
| «data» | HeartRateValue | |
| Definitie | The heart rate measured as the number of heartbeats per minute. | |
| Datatype | PQ | |
| DCM::ConceptId | NL-CM:12.3.2 | |
| DCM::DefinitionCode | SNOMED CT: 364075005 Heart rate | |
| DCM::DefinitionCode | LOINC: 8867-4 Heart rate | |
| DCM::ExampleValue | 76/min | |
| Opties | | |

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

| | | |
|----------------------------|--|---|
| «data» | HeartRateMeasurementMethod | |
| Definitie | The method used to count and observe the heart rate. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:12.3.6 | |
| DCM::DefinitionCode | SNOMED CT: 315306007 Examination by method | |
| DCM::ValueSet | HeartRateMeasurementMethodCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.3.2 |
| Opties | | |

| | | |
|----------------------------|--|--|
| «data» | Comment | |
| Definitie | Comment on any problems or factors that may influence the measurement. | |
| Datatype | ST | |
| DCM::ConceptId | NL-CM:12.3.3 | |
| DCM::DefinitionCode | LOINC: 48767-8 Annotation comment | |
| Opties | | |

| | | |
|----------------------------|---|---|
| «data» | HeartbeatRegularity | |
| Definitie | Regularity of the heartbeat. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:12.3.5 | |
| DCM::DefinitionCode | SNOMED CT: 301112006 Finding of heart rhythm | |
| DCM::ValueSet | HeartbeatRegularityCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.3.1 |
| Opties | | |

| | | |
|------------------|--------------------------------|--|
| «data» | InterpretationHeartRate | |
| Definitie | Interpretation heart rate | |

| | | |
|----------------------------|---|---|
| Datatype | CD | |
| DCM::ConceptId | NL-CM:12.3.7 | |
| DCM::DefinitionCode | SNOMED CT: 301113001 Finding of heart rate | |
| DCM::ValueSet | InterpretationHeartRateCodeList | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.3.3 |
| Opties | | |

| | | |
|-------------------------------|---|--|
| «document» | HeartRateMeasurementMethodCodeList | |
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Extensible | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.12.3.2 | |
| HCIM::ValueSetLanguage | -- | |
| 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 |
| 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» | HeartbeatRegularityCodeList | |
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.12.3.1 | |
| HCIM::ValueSetLanguage | -- | |
| 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 |
| Irregular heart beat | 361137007 | SNOMED CT | 2.16.840.1.113883.6.96 | Hartslag onregelmatig |

| | | |
|-------------------------------|---|--|
| «document» | InterpretationHeartRateCodeList | |
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Extensible | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.12.3.3 | |
| HCIM::ValueSetLanguage | -- | |
| Opties | | |

| InterpretatieFrequentieCodelijst | | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.3.3 | |
|---|--------------|--------------------|---|-------------|
| Concept Name | Concept Code | Coding System Name | Coding System OID | Description |

| | | | | |
|-------------------|----------|-----------|------------------------|------------------------|
| Bradycardia | 48867003 | SNOMED CT | 2.16.840.1.113883.6.96 | Bradycardie |
| Normal heart rate | 76863003 | SNOMED CT | 2.16.840.1.113883.6.96 | Normale hartfrequentie |
| Tachycardia | 3424008 | SNOMED CT | 2.16.840.1.113883.6.96 | Tachycardie |

| Legend | |
|------------------|--|
| Definitie | |
| Datatype | |
| Opties | |

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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