

# Health & Care Information Model:

nl.zorg.HearingFunction-v3.2

Status: Final

Release: 2020

Release status: Published

Managed by:



# Content

<b>1. nl.zorg.HearingFunction-v3.2</b>	<b>3</b>
1.1 Revision History	3
1.2 Concept	3
1.3 Mindmap	3
1.4 Purpose	3
1.5 Patient Population	4
1.6 Evidence Base	4
1.7 Information Model	4
1.8 Example Instances	6
1.9 Instructions	7
1.10 Interpretation	7
1.11 Care Process	7
1.12 Example of the Instrument	7
1.13 Constraints	7
1.14 Issues	7
1.15 References	7
1.16 Functional Model	7
1.17 Traceability to other Standards	7
1.18 Disclaimer	7
1.19 Terms of Use	8
1.20 Copyrights	8

# 1. nl.zorg.HearingFunction-v3.2

DCM::CoderList	Werkgroep RadB Verpleegkundige Gegevens
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Werkgroep RadB Verpleegkundige Gegevens
DCM::CreationDate	4-4-2014
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.4.17
DCM::KeywordList	Horen, auditieve functies, gehoor
DCM::LifecycleStatus	Final
DCM::ModelerList	Werkgroep RadB Verpleegkundige Gegevens
DCM::Name	nl.zorg.FunctieHoren
DCM::PublicationDate	01-09-2020
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep RadB Verpleegkundige Gegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	16-05-2019
DCM::Supersedes	nl.zorg.FunctieHoren-v3.1
DCM::Version	3.2
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (01-07-2015)

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-453

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-530, ZIB-531

Publicatieversie 3.2 (06-07-2019)

Bevat: ZIB-732.

## 1.2 Concept

Hearing is the ability to observe sound, with the purpose of communicating with others, localizing the source of the sound and recognizing certain sounds. This pertains to observing the sound waves, and not processing the sounds in the brain.

A hearing disorder can lead to things including communication problems.

## 1.3 Mindmap

## 1.4 Purpose

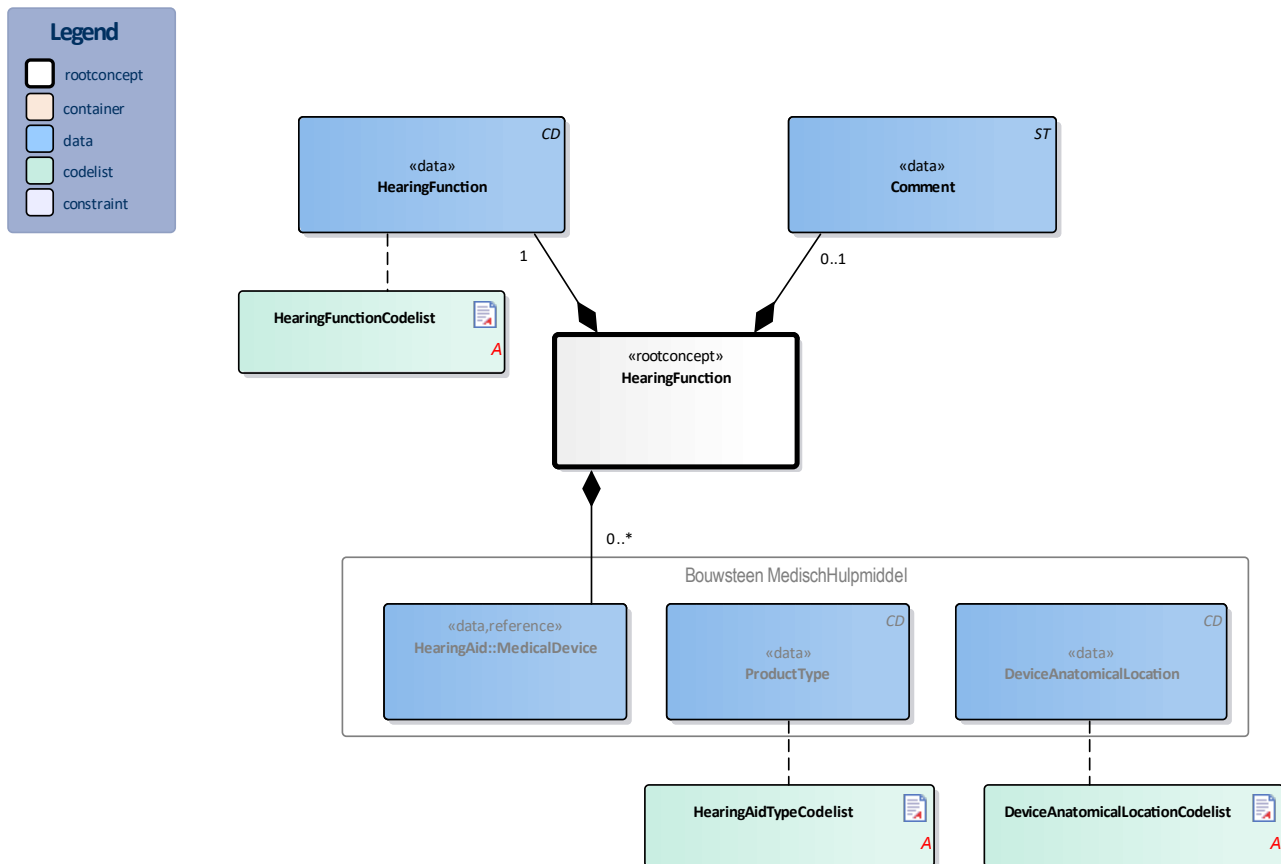
Information on hearing function disorders is important in patient nursing and care and particularly in communication with the patient.

## 1.5 Patient Population

## 1.6 Evidence Base

The definitions of the concepts were (partially) taken from the ICNP definitions.

## 1.7 Information Model



«rootconcept»	HearingFunction	
Definitie	Root concept of the HearingFunction information model. This concept contains all data elements of the HearingFunction information model.	
Datatype		
DCM::ConceptId	NL-CM:4.17.1	
Opties		

«data»	HearingFunction	
Definitie	The faculty of hearing due to responses to stimuli from auditory organs, capacity to hear.	
Datatype	CD	
DCM::ConceptId	NL-CM:4.17.3	
DCM::DefinitionCode	SNOMED CT:47078008 Hearing, function	
DCM::ExampleValue	Verminderde gehoorfunctie	
DCM::ValueSet	HearingFunctionCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.17.1
Opties		

«data»	HearingAid::MedicalDevice	
Definitie	The medical aid used to help the patient hear.	
Datatype		
DCM::ConceptId	NL-CM:4.17.4	
DCM::DefinitionCode	SNOMED CT: 6012004 Hearing aid	
DCM::ReferencedConceptId	NL-CM:10.1.1	This is a reference to the rootconcept of information model MedicalDevice.
Opties		

«data»	ProductType	
Definitie	The type of product used to help the patient hear.	
Datatype	CD	
DCM::ConceptId	NL-CM:10.1.3	
DCM::ExampleValue	Gehoorapparaat	
DCM::ValueSet	HearingAidTypeCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.17.2
Opties		

«data»	DeviceAnatomicalLocation	
Definitie	The anatomical location of the hearing aid, such as: 'left ear'.	
Datatype	CD	
DCM::ConceptId	NL-CM:10.1.6	
DCM::DefinitionCode	SNOMED CT: 363698007 Finding site	
DCM::ExampleValue	Linkeroor	
DCM::ValueSet	DeviceAnatomicalLocationCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.17.3
Opties		

«data»	Comment	
Definitie	A comment on the hearing function.	
Datatype	ST	
DCM::ConceptId	NL-CM:4.17.2	
DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	
DCM::ExampleValue	Door duidelijk articuleren en langzaam te praten kan patiënt redelijk verstaan.	
Opties		

«document»	DeviceAnatomicalLocationCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.4.17.3	
Opties		

LocatieGehoorapparaatCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.17.3		
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
Left ear (body structure)	89644007	SNOMED CT	2.16.840.1.113883.6.96	Linkeroor
Right ear (body structure)	25577004	SNOMED CT	2.16.840.1.113883.6.96	Rechteroor
Both ears (body structure)	34338003	SNOMED CT	2.16.840.1.113883.6.96	Beide oren

«document»		HearingFunctionCodelist		
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.17.1			
Opties				
HoorFunctieCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.17.1		
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
Hearing normal	162339002	SNOMED CT	2.16.840.1.113883.6.96	Geen gehoorstoornis
Hearing loss	15188001	SNOMED CT	2.16.840.1.113883.6.96	Verminderde gehoorfunctie
Complete deafness	8531006	SNOMED CT	2.16.840.1.113883.6.96	Volledig doof

«document»		HearingAidTypeCodelist		
Definitie				
Datatype				
DCM::ValueSetBinding	Extensible			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.17.2			
Opties				
HorenHulpmiddelTypeCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.17.2		
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
Geen	0	Hulpmiddelen gehoor	2.16.840.1.113883.2.4.3.11.22.211	Geen
Hearing aid	6012004	SNOMED CT	2.16.840.1.113883.6.96	Gehoorapparaat
Aid to hearing [DEPRECATED]	272182005	SNOMED CT	2.16.840.1.113883.6.96	Gehoorapparaat

Legend	
Definitie	
Datatype	
Opties	

## 1.8 Example Instances

FunctieHoren	
HoorFunctie	Verminderde gehoorfunctie
HorenHulpmiddel	
ProductType	Gehoorapparaat
HulpmiddelAnatomischeLocatie	Linkeroor
Toelichting	Door duidelijk articuleren en langzaam te praten kan patiënt redelijk verstaan.

## **1.9 Instructions**

### **1.10 Interpretation**

### **1.11 Care Process**

### **1.12 Example of the Instrument**

### **1.13 Constraints**

### **1.14 Issues**

### **1.15 References**

1. International Classification of Functioning Disability and Health (ICF) [Online] Beschikbaar op: <http://www.rivm.nl/who-fic/icf.htm> [Geraadpleegd: 13 februari 2015]

### **1.16 Functional Model**

### **1.17 Traceability to other Standards**

### **1.18 Disclaimer**

The Health and Care Information Models (a.k.a Clinical Building Block) has been made in collaboration with several different parties in healthcare. These parties asked Nictiz to manage good maintenance and development of the information models. Hereafter, these parties and Nictiz are referred to as the collaborating parties. The collaborating parties paid utmost attention to the reliability and topicality of the data in these Health and Care Information Models. Omissions and inaccuracies may however occur. The collaborating parties are not liable for any damages resulting from omissions or inaccuracies in the information provided, nor are they liable for damages resulting from problems caused by or inherent to distributing information on the internet, such as malfunctions, interruptions, errors or delays in information or services provide by the parties to you or by you to the parties via a website or via e-mail, or any other digital means. The collaborating parties will also not accept liability for any damages resulting from the use of data, advice or ideas provided by or on behalf of the parties by means of the Health and Care Information Models. The parties will not accept any liability for the content of information in this Health and Care Information Model to which or from which a hyperlink is referred. In the event of contradictions in mentioned Health and Care Information Model documents and files, the most recent and highest version of the listed order in the revisions will indicate the priority of the documents in question. If information included in the digital version of a Health and Care Information Model is also distributed in writing, the written version will be leading in case of textual differences. This will apply if both have the same version number and date. A definitive version has priority over a draft version. A revised version has priority over previous versions.

## 1.19 Terms of Use

The user may use the Health and Care Information Models without limitations. The copyright provisions in the paragraph concerned apply to copying, distributing and passing on the Health and Care Information Models.

## 1.20 Copyrights

A Health and Care Information Model qualifies as a work within the meaning of Section 10 of the Copyright Act (Auteurswet). Copyrights protect the Health and Care Information Models and these rights are owned by the cooperating parties.

The user may copy, distribute and pass on the information in this Health and Care Information Model under the conditions that apply for Creative Commons license Attribution-NonCommercial-ShareAlike 3.0 Netherlands (CC BY-NC-SA-3.0).

The content is available under Creative Commons Attribution-NonCommercial-ShareAlike 3.0 (see also <http://creativecommons.org/licenses/by-nc-sa/3.0/nl/>)

This does not apply to information from third parties that sometimes is used and / or referred to in a Health and Care Information Model, for example to an international medical terminology system. Any (copyright) rights that protect this information are not owned by the cooperating parties but by those third parties.



Nictiz is the independent national competence centre for electronic exchange of health and care information. The activities of Nictiz include the targeted development and management of information standards at the request of and in partnership with the stakeholders in healthcare. Nictiz advises these parties on all aspects of information exchange and identifies (future) national and international developments.

**Nictiz**

P.O. Box 19121  
2500 CC Den Haag  
Oude Middenweg 55  
2491 AC Den Haag

070-3173450  
[info@nictiz.nl](mailto:info@nictiz.nl)  
[www.nictiz.nl](http://www.nictiz.nl)

