

# Health & Care Information Model:

nl.zorg.VisualAcuity-v2.0

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# Content

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# 1. nl.zorg.VisualAcuity-v2.0

DCM::CoderList	*
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	*
DCM::CreationDate	15-06-2020
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	*
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DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.12.19
DCM::KeywordList	
DCM::LifecycleStatus	Final
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DCM::RevisionDate	12-11-2021
DCM::Supersedes	nl.zorg.Visus-v1.0
DCM::Version	2.0
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (01-09-2020)

Publicatieversie 2.0 (01-12-2021)

Bevat: ZIB-1412, ZIB-1441, ZIB-1442, ZIB-1445, ZIB-1567.

## 1.2 Concept

Visual acuity is a measurement of sharpness of vision. It is a measure of the smallest details that someone can still distinguish.

## 1.3 Mindmap

## 1.4 Purpose

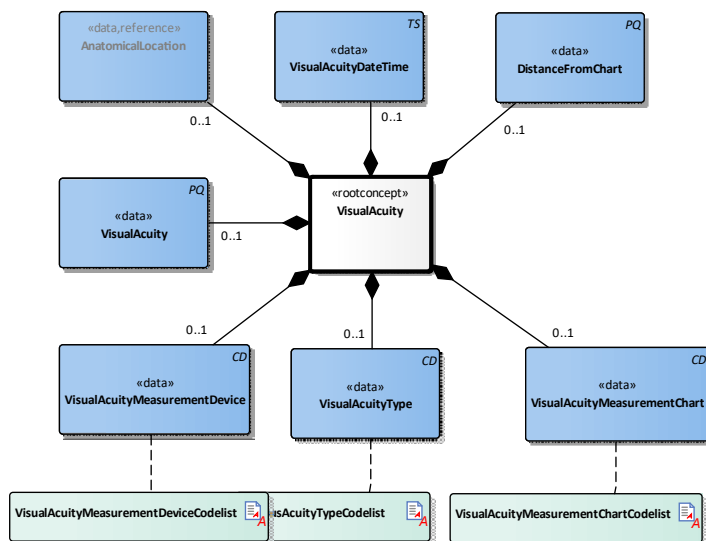
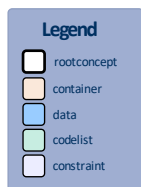
The aim is to determine the patient's visual functioning based on their visual acuity.

## 1.5 Patient Population

Adults and children from the age that they can interpret a picture chart.

## 1.6 Evidence Base

## 1.7 Information Model



«rootconcept»	VisualAcuity
<b>Definitie</b>	Root concept of the VisualAcuity information model. This root concept contains all data elements of the VisualAcuity information model.
<b>Datatype</b>	
<b>DCM::ConceptId</b>	NL-CM:12.19.1
<b>DCM::DefinitionCode</b>	SNOMED CT: 260246004 Visual acuity finding
<b>Opties</b>	

«data»	VisualAcuityMeasurementDevice
<b>Definitie</b>	The device used measuring the visual acuity.
<b>Datatype</b>	
<b>DCM::ConceptId</b>	NL-CM:12.19.6
<b>DCM::DefinitionCode</b>	SNOMED CT: 400912000 Visual acuity test equipment
<b>DCM::ExampleValue</b>	with multiple pinholes
<b>DCM::ValueSet</b>	VisualAcuityMeasurementDeviceCodelist OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.19.4
<b>Opties</b>	

«data»	VisualAcuityType
<b>Definitie</b>	Type of visual acuity measurement.
<b>Datatype</b>	
<b>DCM::ConceptId</b>	NL-CM:12.19.2
<b>DCM::DefinitionCode</b>	SNOMED CT: 16830007 Visual acuity testing
<b>DCM::ValueSet</b>	VisualAcuityTypeCodelist OID:2.16.840.1.113883.2.4.3.11.60.40.2.12.19.2
<b>Opties</b>	

«data»	VisualAcuityMeasurementChart
<b>Definitie</b>	The type of chart used for the visual acuity measurement.
<b>Datatype</b>	

<b>DCM::ConceptId</b>	NL-CM:12.19.7	
<b>DCM::DefinitionCode</b>	SNOMED CT: 421763006 Visual acuity chart	
<b>DCM::ExampleValue</b>	APK-TOV	
<b>DCM::ValueSet</b>	VisualAcuityMeasurementChartCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.19.3
<b>Opties</b>		

<b>«data»</b>		<b>DistanceFromChart</b>
<b>Definitie</b>	Distance to the chart in meters.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:12.19.8	
<b>DCM::DefinitionCode</b>	SNOMED CT: 152731000146106 Distance to visual acuity chart	
<b>DCM::ExampleValue</b>	4 meter	
<b>Opties</b>		

<b>«data»</b>		<b>VisualAcuity</b>
<b>Definitie</b>	The measured decimal visual acuity.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:12.19.11	
<b>DCM::DefinitionCode</b>	SNOMED CT: 363983007 Visual acuity	
<b>DCM::ExampleValue</b>	0.125	
<b>Opties</b>		

<b>«data»</b>		<b>VisualAcuityDateTime</b>
<b>Definitie</b>	The date and time when the visual acuity was measured.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:12.19.4	
<b>DCM::DefinitionCode</b>	SNOMED CT: 439771001 Date of event	
<b>DCM::ExampleValue</b>	02-03-2020	
<b>Opties</b>		

<b>«data»</b>		<b>AnatomicalLocation</b>
<b>Definitie</b>	Indication and the laterality of the eye of which the visual acuity measurement relates to.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:12.19.5	
<b>DCM::ExampleValue</b>	Rechts	
<b>DCM::ReferencedConceptId</b>	NL-CM:20.7.1	This is a reference to the rootconcept of information model AnatomicalLocation.
<b>Opties</b>		

<b>«document»</b>		<b>VisualAcuityMeasurementDeviceCodelist</b>
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Extensible	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.12.19.4	
<b>HCIM::ValueSetLanguage</b>	--	
<b>Opties</b>		

VisusMeetHulpmiddelCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.19.4	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Pinhole visual acuity	419475002	SNOMED CT	2.16.840.1.113883.6.96	Met stenopeïsche opening ( <b>DEPRECATED</b> )
Stenopeïsche opening	257492003	SNOMED CT	2.16.840.1.113883.6.96	Met stenopeïsche opening
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»	VisualAcuityMeasurementChartCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.12.19.3	
HCIM::ValueSetLanguage	EN	
Opties		

VisusMetingKaartCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.19.3	
Concept Name	Concept Code	Coding System Name	Coding System OID	Description
Logarithmic E chart	1	VisusMeetkaart	2.16.840.1.113883.2.4.3.11.60.40.4.27	logaritmische E-hakenkaart
Snellen chart	2	VisusMeetkaart	2.16.840.1.113883.2.4.3.11.60.40.4.27	Snellen Letterkaart
LEA Hayvarinen chart	3	VisusMeetkaart	2.16.840.1.113883.2.4.3.11.60.40.4.27	LEA symbolen kaart
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»	VisusAcuityTypeCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.12.19.2	
HCIM::ValueSetLanguage	--	
Opties		

VisusMetingTypeCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.19.2	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Corrected visual acuity	397536007	SNOMED CT	2.16.840.1.113883.6.96	Gecorrigeerde visus (met eigen bril)
Uncorrected visual acuity	420050001	SNOMED CT	2.16.840.1.113883.6.96	Ongecorrigeerde visus
Best corrected visual acuity	419775003	SNOMED CT	2.16.840.1.113883.6.96	Best gecorrigeerde visus(met optimale bril)
Stereoscopic acuity	359750002	SNOMED CT	2.16.840.1.113883.6.96	Stereoscopische visus
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

Legend

<b>Definitie</b>	
<b>Datatype</b>	
<b>Opties</b>	

## 1.8 Example Instances

Visus						
DatumTijd	MetingType	Decimale Visus	Meting Kaart	Afstand tot kaart	Lateraliteit	Meethulpmiddel
08-02-2020	Best gecorrigeerde visus	0.8	Snellen Letterkaart	5 meter	Links	
08-02-2020	Gecorrigeerde visus	1.0	logaritmische E-hakenkaart	3 meter	Rechts	Met stenopeische opening

## 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

### 1.16 Functional Model

### 1.17 Traceability to other Standards

This health and care information model is based on the information model template Measurement- v1.0.

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