

# **Health & Care Information Model:**

**nl.zorg.VisualAcuity-v2.1.1**

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# Content

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# 1. nl.zorg.VisualAcuity-v2.1.1

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DCM::ContactInformation.Address	*
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## 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.

Publicatieversie 2.1 (10-06-2022)

Bevat: ZIB-1595.

Publicatieversie 2.1.1 (15-10-2023)

Bevat: ZIB-2020.

## 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

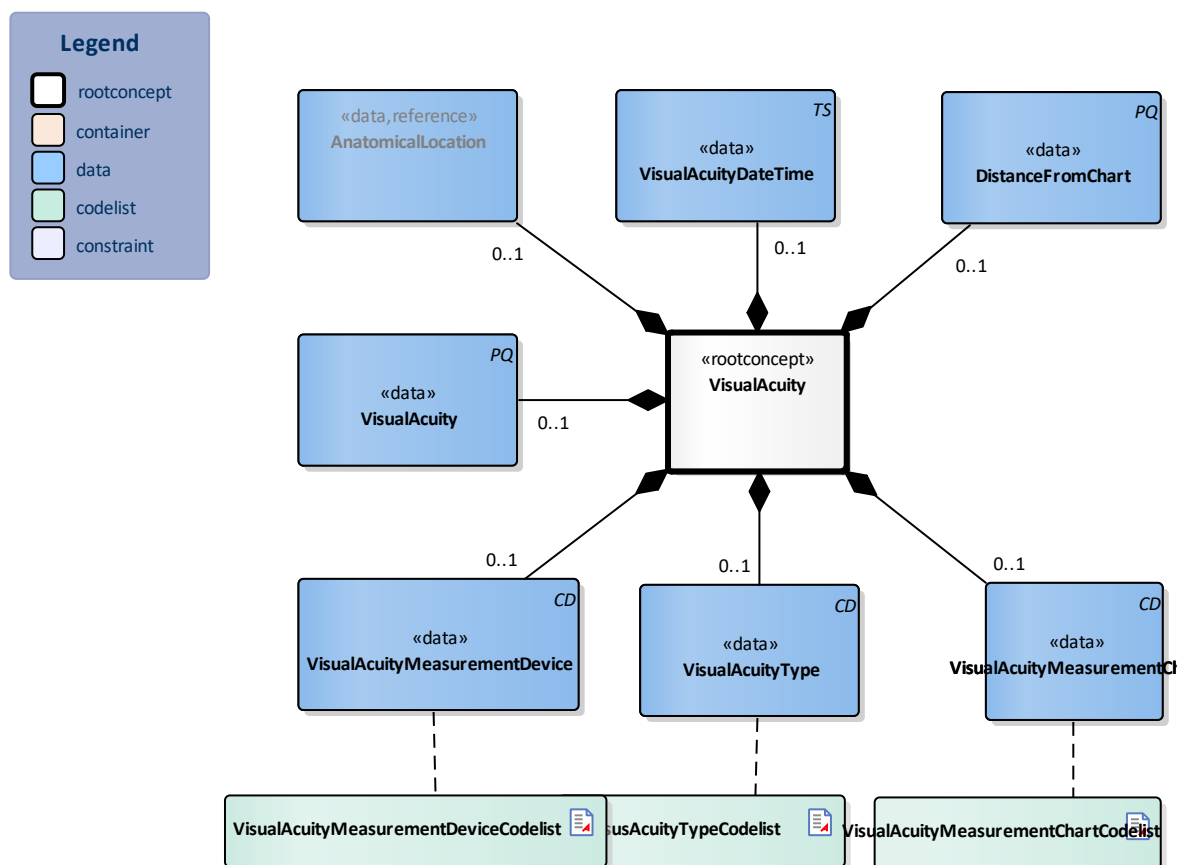
The aim is to determine the patient's visual functioning based on their visual acuity.

## 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	
Definitie	Root concept of the VisualAcuity information model.This root concept contains all data elements of the VisualAcuity information model.	
Datatype		
DCM::ConceptId	NL-CM:12.19.1	
DCM::DefinitionCode	SNOMED CT: 260246004	Visual acuity finding
Opties		

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

«data»	VisualAcuityType	
Definitie	Type of visual acuity measurement.	
Datatype	CD	
DCM::ConceptId	NL-CM:12.19.2	

<b>DCM::DefinitionCode</b>	SNOMED CT: 16830007 Visual acuity testing	
<b>DCM::ValueSet</b>	VisusAcuityTypeCodelist	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>	CD	
<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>		

«data»	DistanceFromChart	
<b>Definitie</b>	Distance to the chart in meters.	
<b>Datatype</b>	PQ	
<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>		

«data»	VisualAcuity	
<b>Definitie</b>	The measured visual acuity.	
<b>Datatype</b>	PQ	
<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>		

«data»	VisualAcuityDateTime	
<b>Definitie</b>	The date and time when the visual acuity was measured.	
<b>Datatype</b>	TS	
<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>		

«data»	AnatomicalLocation	
<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>		

«document»	VisualAcuityMeasurementDeviceCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Extensible			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.12.19.4			
HCIM::ValueSetLanguage	--			
Opties				
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	2.16.840.1.113883.2.4.3.11.6 0.40.2.12.19.3			
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	2.16.840.1.113883.2.4.3.11.60.40.4.27.1	Logaritmische E-hakenkaart
Snellen chart	2	VisusMeetkaart	2.16.840.1.113883.2.4.3.11.60.40.4.27.1	Snellen Letterkaart
LEA Hayvarinen chart	3	VisusMeetkaart	2.16.840.1.113883.2.4.3.11.60.40.4.27.1	LEA symbolen kaart
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»	VisusAcuityTypeCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Extensible			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.12.19.2			
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.

## 1.18 Disclaimer

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