Health & Care Information Model:

nl.zorg.VisualAcuity-v2.2

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Nictiz Better health through better information

Content

1. nl.zorg.VisualAcuity-v2.2

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	*
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.12.19
DCM::KeywordList	
DCM::LifecycleStatus	Final
DCM::ModelerList	*
DCM::Name	nl.zorg.Visus
DCM::PublicationDate	24-04-2024
DCM::PublicationStatus	Published
DCM::ReviewerList	
DCM::RevisionDate	16-04-2025
DCM::Supersedes	nl.zorg.Visus-v2.1.1
DCM::Version	2.2
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.

Publicatieversie 2.1 (10-06-2022)
Bevat: ZIB-1595.

Publicatieversie 2.1.1 (15-10-2023)
Bevat: ZIB-2020.

Publicatieversie 2.2 (24-04-2024)
Bevat: ZIB-2741.

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

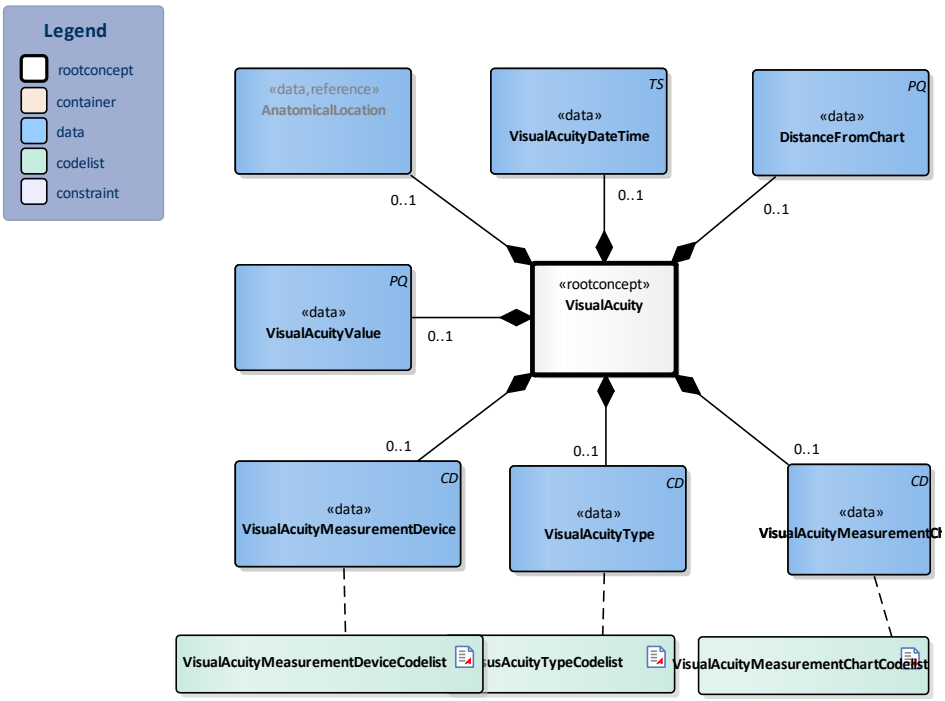
The aim is to determine the patient's visual functioning based ontheir visual acuity.

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	
DCM::DefinitionCode	SNOMED CT: 16830007 Visual acuity testing	

DCM::ValueSet	VisusAcuityTypeCodelist	OID:2.16.840.1.113883.2.4.3.11.60.40.2.12.19.2
Opties		

«data»	VisualAcuityMeasurementChart	
Definitie	The type of chart used for the visual acuity measurement.	
Datatype	CD	
DCM::ConceptId	NL-CM:12.19.7	
DCM::DefinitionCode	SNOMED CT: 421763006 Visual acuity chart	
DCM::ExampleValue	APK-TOV	
DCM::ValueSet	VisualAcuityMeasurementChartCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.19.3
Opties		

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

«data»	VisualAcuityValue	
Definitie	The measured visual acuity.	
Datatype	PQ	
DCM::ConceptId	NL-CM:12.19.11	
DCM::DefinitionCode	SNOMED CT: 363983007 Visual acuity	
DCM::ExampleValue	0.125	
Opties		

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

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

«document»	VisualAcuityMeasurementDeviceCodelist
Definitie	

Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.12.19.4	
DCM::ValueSetIncludeOTH	True	
DCM::ValueSetStatus	Active	
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 (DEPRECATED)
Stenopeïsche opening	257492003	SNOMED CT	2.16.840.1.113883.6.96	Met stenopeïsche opening

«document»	VisualAcuityMeasurementChartCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.12.19.3	
DCM::ValueSetIncludeOTH	True	
DCM::ValueSetStatus	Active	
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 Syst. 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

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

VisusMetingTypeCodelijst			**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.19.2**	
Concept Name	**Concept**	**Coding Syst.**	**Coding System OID**	**Description**

	Code	Name		
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

	Legend
Definitie	
Datatype	
Opties	

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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