

Zorginformatiebouwsteen:

nl.zorg.Refraction-v2.0

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Inhoudsopgave

1. nl.zorg.Refraction-v2.0	3
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	7
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	8
1.15 References	8
1.16 Functional Model	8
1.17 Traceability to other Standards	8
1.18 Disclaimer	8
1.19 Terms of Use	8
1.20 Copyrights	8

1. nl.zorg.Refraction-v2.0

DCM::CoderList	*
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	*
DCM::CreationDate	17-5-2020
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	*
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.12.20
DCM::KeywordList	
DCM::LifecycleStatus	Final
DCM::ModelerList	*
DCM::Name	nl.zorg.Refractie
DCM::PublicationDate	15-10-2023
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DCM::ReviewerList	
DCM::RevisionDate	04-09-2023
DCM::Supersedes	nl.zorg.Refractie-v1.2
DCM::Version	2.0
HCIM::PublicationLanguage	EN

1.1 Revision History

Publicatieversie 1.0 (01-09-2020)

Publicatieversie 1.1 (01-12-2021)

Bevat: ZIB-1420, ZIB-1421, ZIB-1442, ZIB-1443, ZIB-1449, ZIB-1522.

Publicatieversie 1.2 (10-06-2022)

Bevat: ZIB-1716.

Publicatieversie 2.0 (15-10-2023)

Bevat: ZIB-1889, ZIB-1868.

1.2 Concept

The refraction measurement is a measurement with which the refractive error of the eye is determined.

During the refraction measurement, the necessary correction is established: the spherical power (in diopters), the cylindrical power (in diopters), the axis direction (in degrees) for any cylindrical correction, the prism (in prism diopters) and any additional power of the reading area (in diopters), the so-called reading addition

1.3 Mindmap

1.4 Purpose

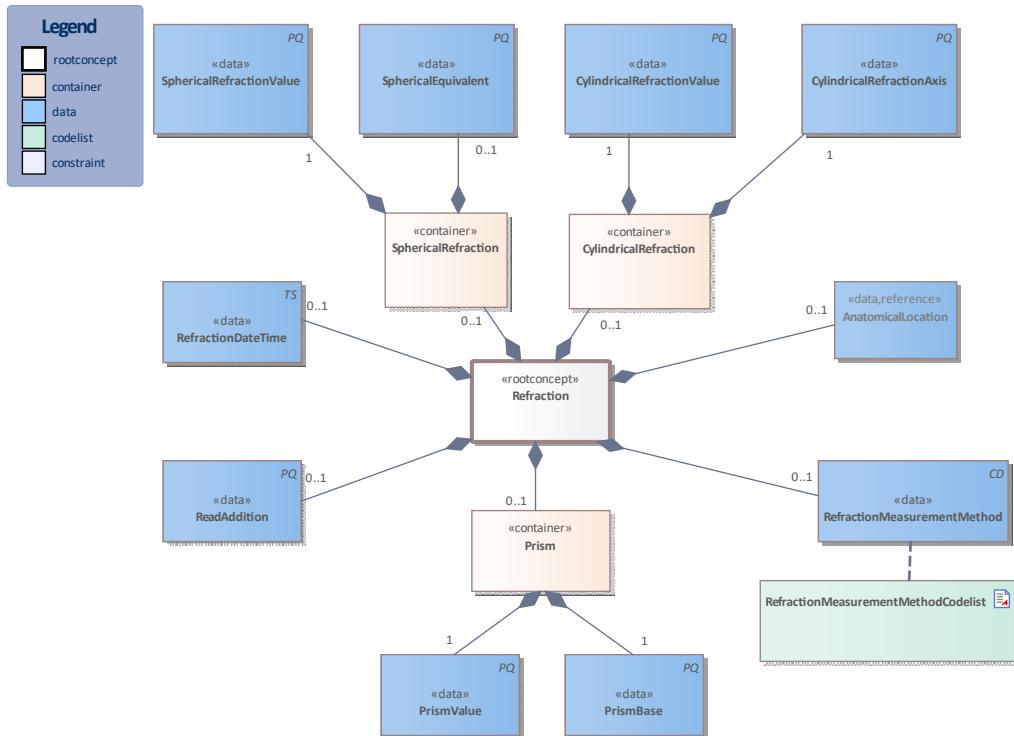
The purpose of a refraction measurement is to determine the correction (through glasses or lenses) with which the patient can see optimally.

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>>	Refraction
Definitie	Root concept of the Refraction information model. This root concept contains all data elements of the Refraction information model.
Datatype	
DCM::ConceptId	NL-CM:12.20.1
DCM::DefinitionCode	SNOMED CT: 366060000 Refraction measurement - finding
Opties	

<<data>>	RefractionMeasurementMethod
Definitie	The method used to measure the refraction.
Datatype	CD
DCM::ConceptId	NL-CM:12.20.4
DCM::DefinitionCode	SNOMED CT: 252886007 Refraction assessment
DCM::ValueSet	RefractionMeasurementMethodCodelist OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.20.1
Opties	

«data»	RefractionDateTime	
Definitie	The date and time when the refraction measurement was carried out.	
Datatype	TS	
DCM::ConceptId	NL-CM:12.20.3	
DCM::DefinitionCode	SNOMED CT: 439771001 Date of event	
Opties		

«container»	CylindricalRefraction	
Definitie	Container of the CylindricalRefraction concept.This container contains all data elements of the CylindricalRefraction concept.	
Datatype		
DCM::ConceptId	NL-CM:12.20.12	
Opties		

«data»	CylindricalRefractionValue	
Definitie	The power of the cylinder needed to correct the cylindrical error (astigmatism), expressed in diopters, increasing per 0.25D. When a cylindrical refraction is registered, the axis of the cylinder must also be specified.	
Datatype	PQ	
DCM::ConceptId	NL-CM:12.20.11	
DCM::DefinitionCode	SNOMED CT: 251797004 Power of cylinder	
DCM::ExampleValue	-0.75	
Opties		

«data»	CylindricalRefractionAxis	
Definitie	The axis direction of the cylindrical refraction value expressed in degrees.	
Datatype	PQ	
DCM::ConceptId	NL-CM:12.20.13	
DCM::DefinitionCode	SNOMED CT: 251799001 Axis of cylinder	
DCM::ExampleValue	18 graden	
Opties		

«container»	Prism	
Definitie	Container of the Prism concept.This container contains all data elements of the Prism container.	
Datatype		
DCM::ConceptId	NL-CM:12.20.5	
Opties		

«data»	PrismValue	
Definitie	The power of the prism, expressed in prism diopters.	
Datatype	PQ	
DCM::ConceptId	NL-CM:12.20.6	
DCM::DefinitionCode	SNOMED CT: 251762001 Prism strength	
DCM::ExampleValue	2.00	
Opties		

«data»	PrismBase	

Definitie	The base of the prism, expressed in degrees.
Datatype	PQ
DCM::ConceptId	NL-CM:12.20.7
DCM::DefinitionCode	SNOMED CT: 246223004 Prism base direction
DCM::ExampleValue	90
Opties	

«container»	SphericalRefraction
Definitie	Container of the SphericalRefraction concept. This container contains all data elements of the SphericalRefraction concept.
Datatype	
DCM::ConceptId	NL-CM:12.20.14
Opties	

«data»	SphericalRefractionValue
Definitie	The spherical spectacle strength power needed to correct nearsightedness (myopia) or farsightedness (hyperopia), expressed in diopters, ascending by 0.25D.
Datatype	PQ
DCM::ConceptId	NL-CM:12.20.9
DCM::DefinitionCode	SNOMED CT: 251795007 Power of sphere
DCM::ExampleValue	+2 diopter
Opties	

«data»	SphericalEquivalent
Definitie	The spherical power added to half of the cylindrical power. Expressed in diopters, with two digits after the decimal point. Some equipment automatically calculates the spherical equivalent.
Datatype	PQ
DCM::ConceptId	NL-CM:12.20.10
DCM::DefinitionCode	SNOMED CT: 112881000146107 Spherical equivalent
Opties	

«data»	ReadAddition
Definitie	A supplement that is added to the refraction value to determine the strength of the reading glasses, expressed in diopters.
Datatype	PQ
DCM::ConceptId	NL-CM:12.20.8
DCM::DefinitionCode	SNOMED CT: 251796008 Spherical addition
DCM::ExampleValue	1,25 diopter
Opties	

«data»	AnatomicalLocation
Definitie	Indication and the laterality of the eye of which the refraction measurement relates to.
Datatype	
DCM::ConceptId	NL-CM:12.20.2
DCM::ExampleValue	Links
DCM::ReferencedConceptId	NL-CM:20.7.1
	This is a reference to the rootconcept of information model AnatomicalLocation.

Opties	
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«document»	RefractionMeasurementMethodCodelist
Definie	
Datatype	
DCM::ValueSetBinding	Extensible
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.12.20.1
HCIM::ValueSetLanguage	--
Opties	

RefractieMeetMethodeCodelijst **OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.20.1**

Concept Name	Concept Code	Coding System Name	Coding System OID	Description
Subjective refraction (procedure)	397277005	SNOMED CT	2.16.840.1.113883.6.96	Subjectieve refractie
Objective refraction (procedure)	397276001	SNOMED CT	2.16.840.1.113883.6.96	Objectieve refractie

	Legend
Definie	
Datatype	
Opties	

1.8 Example Instances

Refractie DatumTijd	Refractie Methode	Refractie Lateraleit	SferischeRefractie		CilindrischeRefractie		Lees additie	Prisma	
			SferischeRefractieWaarde	SferischEquivalent	CilindrischeRefractie Waarde	CilindrischeRefractieAs		PrismaWaarde	PrismaBasis
1-1-2020	Subjectieve refractie	Rechts	+1.00	0.63	-0.75	90	1.00	2.00	90
1-1-2020	Subjectieve refractie	Links	+0.5	0	-1.00	45	1.00	1.50	45
12-1-2020	Objectieve refractie	Rechts	-	-	-	-	-	-	-
12-1-2020	Objectieve refractie	Links	-	-	-	-	-	-	-

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

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