Health & Care Information Model:

nl.zorg.O2Saturation-v4.0

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1. nl.zorg.O2Saturation-v4.0

DCM::CoderList	Kerngroep Registratie aan de Bron
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Projectgroep Generieke Overdrachtsgegevens &
	Kerngroep Registratie aan de Bron
DCM::CreationDate	29-11-2012
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.12.10
DCM::KeywordList	zuurstofsaturatie, vitale parameters, saturatie
DCM::LifecycleStatus	Final
DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.zorg.O2Saturatie
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DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens &
	Kerngroep Registratie aan de Bron
DCM::RevisionDate	11-11-2021
DCM::Supersedes	nl.zorg.O2Saturatie-v3.1
DCM::Version	4.0
HCIM::PublicationLanguage	EN

1.1 Revision History

Publicatieversie 1.0 (15-02-2013)

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Publicatieversie 1.1 (01-07-2013)

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Publicatieversie 1.2 (01-04-2015)

Bevat: ZIB-308.

Incl. algemene wijzigingsverzoeken:

ZIB-94, ZIB-154, ZIB-200, ZIB-201, ZIB-309, ZIB-324, ZIB-326.

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-453.

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-431, ZIB-564.

Publicatieversie <u>4.0</u> (01-12-2021) Bevat: ZIB-1217, ZIB-1476.

1.2 Concept

Arterial oxygen saturation, also referred to as saturation, is an indicator for the amount of oxygen bound to the hemoglobin in the red blood cells of the arteries. The measurement is usually carried out as a

transcutaneous measurement with a blood oxygen monitor or pulse oximeter. The saturation level is expressed as a percentage and should be over 95% in healthy people.

1.3 Mindmap

1.4 Purpose

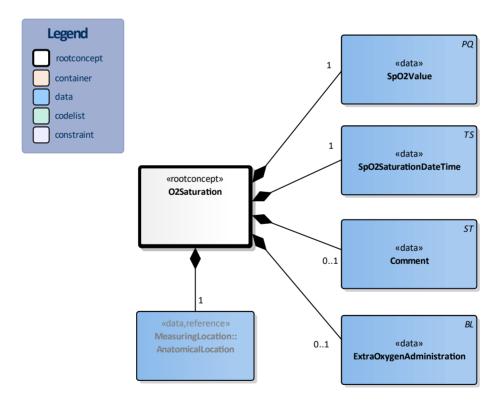
Measuring and monitoring oxygen saturation is done to monitor the oxygenation, or the amount of bound oxygen in the arterial blood.

This HCIM concerns the peripherally measured oxygen saturation (SpO2). For the oxygen saturation measured as a blood-gas measurement (SaO2), the HCIM LaboratoryTestResults must be used.

1.5 Patient Population

1.6 Evidence Base

1.7 Information Model



«rootconcept»	O2Saturation		
Definitie	Root concept of the O2Saturation information model. This root concept contains all data elements of the O2Saturation information model.		
Datatype			
DCM::ConceptId	NL-CM:12.10.1		
DCM::DefinitionCode	SNOMED CT: 250554003		
	Measurement of oxygen		
	saturation at periphery		
Opties			

«data»	SpO2Value			
Definitie	The element contains the value of the indirect, peripheral measured O2			
	saturation.			
	The O2 saturation gives a perd	centage expressing the extent to which the		
	blood's hemoglobin is saturate	ed with oxygen, the ratio of oxygen-saturated		
	hemoglobin to hemoglobin.			
	The measurement is done in places where sufficient light can get through			
	the skin, such as a finger, toe or earlobe.			
Datatype	PQ			
DCM::ConceptId	NL-CM:12.10.2			
DCM::DefinitionCode	SNOMED CT: 431314004			
	Peripheral oxygen saturation			
DCM::DefinitionCode	LOINC: 59408-5 Oxygen			
	saturation in Arterial blood			
	by Pulse oximetry			
DCM::ExampleValue	98 %			
Opties				

«data»	SpO2SaturationDateTime		
Definitie	The moment (date and time) of the SpO2 measurement.		
Datatype	TS		
DCM::ConceptId	NL-CM:12.10.3		
Opties			

«data»	Comment		
Definitie	Comment on the saturation measurement.		
Datatype	ST		
DCM::ConceptId	NL-CM:12.10.4		
DCM::DefinitionCode	LOINC: 48767-8 Annotation		
	comment		
DCM::ExampleValue	Saturatie afhankelijk van O2		
	via mondkap		
Opties			

«data»	ExtraOxygenAdministration		
Definitie	Indication stating whether the measurement was done in a situation in		
	which extra oxygen was administered.		
Datatype	BL		
DCM::ConceptId	NL-CM:12.10.5		
DCM::DefinitionCode	SNOMED CT: 266702001		
	Oxygen enrichment therapy		
Opties			

«data»	MeasuringLocation::AnatomicalLocation		
Definitie	Anatomical location where the SpO2 is measured.		
Datatype			
DCM::ConceptId	NL-CM:12.10.6		
DCM::ReferencedConc	NL-CM:20.7.1 This is a reference to the rootconcept of		
eptId	information model AnatomicalLocation.		
Opties			

	Legend
Definitie	
Datatype	

1.8 Example Instances

O2SaturatieDatumTijd	SpO2Waarde	ExtraZuurstofToediening	Toelichting
08-02-2013 6:43	92%	Ja	Stijgt snel bij aanspreken

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. openEHR-EHR-OBSERVATION.indirect_oximetry.v1[Online] Beschikbaar op: http://www.openehr.org/knowledge/ [Geraadpleegd: 19 december 2014].

1.16 Functional Model

1.17 Traceability to other Standards

This health and care information model is in accordance with the information model template Measurement v1.0.

1.18 Disclaimer

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