Health & Care Information Model:

nl.zorg.O2Saturation-v3.1

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Content

1. nl.zorg.O2Saturation-v3.1

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DCM::ContentAuthorList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::CreationDate	29-11-2012
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1.1 Revision History

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-

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-

Publicatieversie 1.2 (01-04-2015)
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Incl. algemene wijzigingsverzoeken:
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Bevat: ZIB-453

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Bevat: ZIB-431, ZIB-564

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.
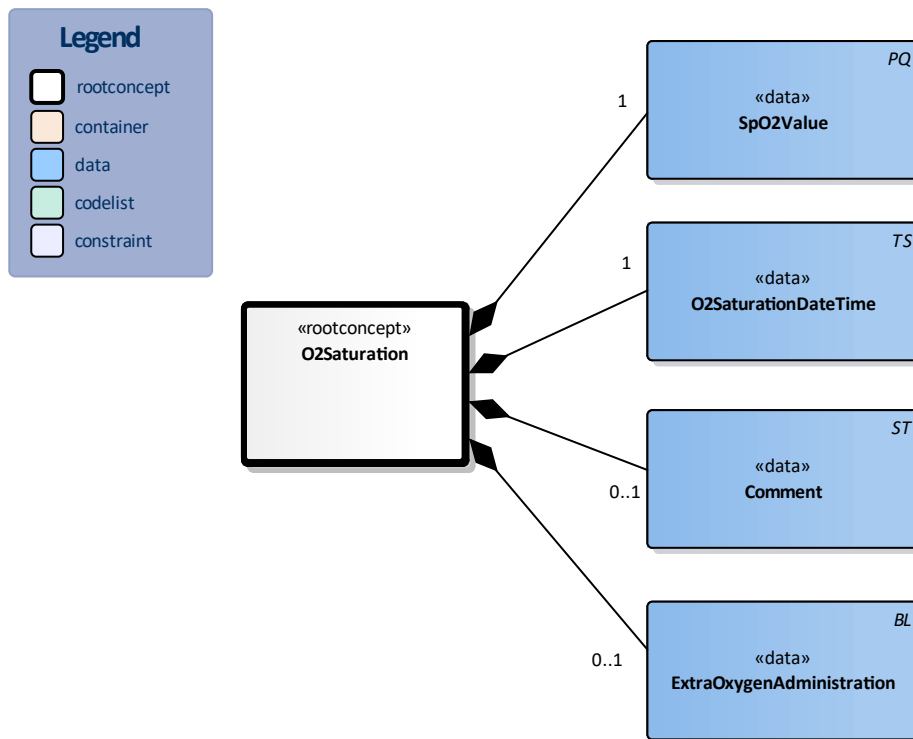
1.3 Mindmap

1.4 Purpose

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

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	
Opties		

«data»	SpO2Value
Definitie	The element contains the value of the indirect, peripheral measured O2 saturation. The O2 saturation gives a percentage expressing the extent to which the blood's hemoglobin is saturated 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	LOINC: 59408-5 Oxygen saturation in Arterial blood by Pulse oximetry	
DCM::ExampleValue	98 %	
Opties		

«data»	O2SaturationDateTime	
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	
Opties		

	Legend	
Definitie		
Datatype		
Opties		

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

1.18 Disclaimer

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