

# Health & Care Information Model: nl.zorg.O2Saturation-v3.1

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# Content

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# 1. nl.zorg.O2Saturation-v3.1

|                                 |  |
|---------------------------------|--|
| 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.O2Saturation   |
| DCM::PublicationDate            | 31-01-2020   |
| DCM::PublicationStatus          | Prepublished   |
| DCM::ReviewerList               | Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron |
| DCM::RevisionDate               | 31-12-2017   |
| DCM::Supersedes                 | nl.zorg.O2Saturation-v3.0  |
| DCM::Version                    | 3.1  |
| HCIM::PublicationLanguage       | EN   |

## 1.1 Revision History

Publicatieversie 1.0 (15-02-2013)

-

Publicatieversie 1.1 (01-07-2013)

-

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

## 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

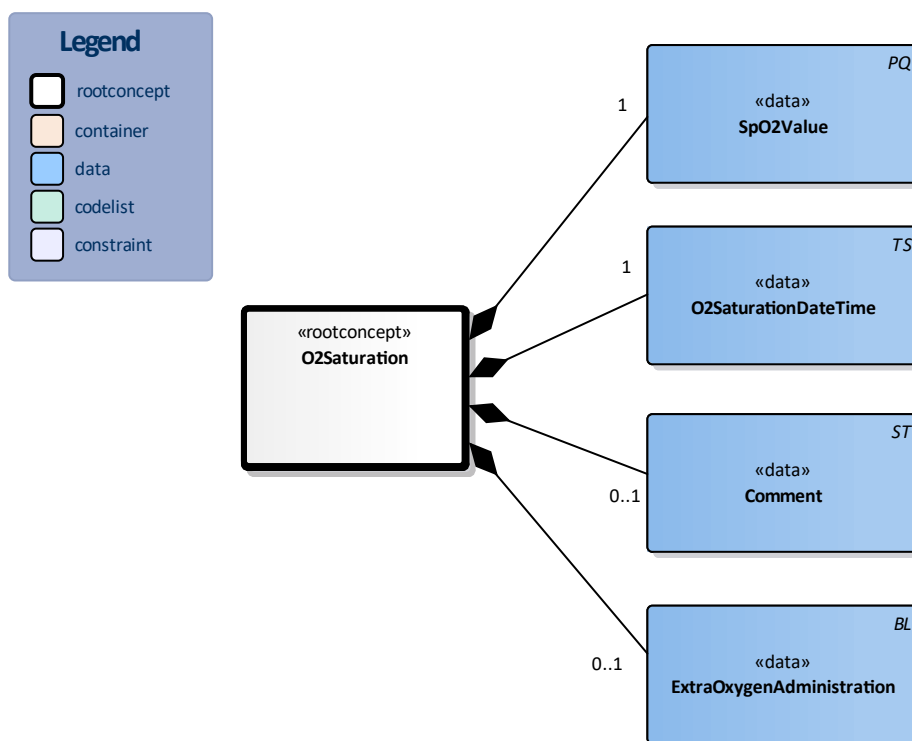
## 1.4 Purpose

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  |  |
|-----------------------|---|--|
| <b>Definitie</b>      | Root concept of the O2Saturation information model. This root concept contains all data elements of the O2Saturation information model. |  |
| <b>Datatype</b>       |   |  |
| <b>DCM::ConceptId</b> | NL-CM:12.10.1   |  |
| <b>Opties</b>         |   |  |

| «data»           | SpO2Value   |  |
|------------------|---|--|
| <b>Definitie</b> | <p>The element contains the value of the indirect, peripheral measured O2 saturation.</p> <p>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.</p> <p>The measurement is done in places where sufficient light can get through</p> |  |

|                            |  |  |
|----------------------------|--|--|
|                            | the skin, such as a finger, toe or earlobe.                          |  |
| <b>Datatype</b>            | PQ   |  |
| <b>DCM::ConceptId</b>      | NL-CM:12.10.2  |  |
| <b>DCM::DefinitionCode</b> | LOINC: 59408-5 Oxygen saturation in Arterial blood by Pulse oximetry |  |
| <b>DCM::ExampleValue</b>   | 98 %   |  |
| <b>Opties</b>              |  |  |

|                       |   |  |
|-----------------------|---|--|
| <b>«data»</b>         | <b>O2SaturationDateTime</b>                         |  |
| <b>Definitie</b>      | The moment (date and time) of the SpO2 measurement. |  |
| <b>Datatype</b>       | TS  |  |
| <b>DCM::ConceptId</b> | NL-CM:12.10.3                                       |  |
| <b>Opties</b>         |   |  |

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

|                       |  |  |
|-----------------------|--|--|
| <b>«data»</b>         | <b>ExtraOxygenAdministration</b>   |  |
| <b>Definitie</b>      | Indication stating whether the measurement was done in a situation in which extra oxygen was administered. |  |
| <b>Datatype</b>       | BL   |  |
| <b>DCM::ConceptId</b> | NL-CM:12.10.5  |  |
| <b>Opties</b>         |  |  |

|                  |               |  |
|------------------|---------------|--|
|                  | <b>Legend</b> |  |
| <b>Definitie</b> |               |  |
| <b>Datatype</b>  |               |  |
| <b>Opties</b>    |               |  |

## 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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