

Health&Care Information Model: nl.zorg.Ademhaling

Final

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Content

1. nl.zorg.Ademhaling-v3.0	3
1.1 Revision History	3
1.2 Concept	3
1.3 Mindmap	3
1.4 Purpose	4
1.5 Patient Population	4
1.6 Evidence Base	4
1.7 Information Model	4
1.8 Example Instances	8
1.9 Instructions	9
1.10 Interpretation	9
1.11 Care Process	9
1.12 Example of the Instrument	9
1.13 Constraints	9
1.14 Issues	9
1.15 References	9
1.16 Functional Model	9
1.17 Traceability to other Standards	9
1.18 Disclaimer	10
1.19 Terms of Use	10
1.20 Copyrights	10

1. nl.zorg.Ademhaling-v3.0

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	
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.12.5
DCM::KeywordList	Ademhaling
DCM::LifecycleStatus	Final
DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.zorg.Ademhaling
DCM::PublicationDate	1-5-2016
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	16-7-2015
DCM::Superseeds	nl.nfu.Ademhaling-v1.0.2
DCM::Version	3.0

1.1 Revision History

Publicatieversie 1.0 (01-04-2015)

Bevat: ZIB-113, ZIB-308, ZIB-361, ZIB-364, ZIB-365, ZIB-366.

Incl. algemene wijzigingsverzoeken:

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

Publicatieversie 1.0.1 (22-05-2015)

Bevat: ZIB-407, ZIB-398.

Publicatieversie 1.0.2 (16-07-2015)

Bevat: ZIB-415, ZIB-416.

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-453

1.2 Concept

During breathing or respiration, air flows to and from the lungs, where gas exchange occurs, absorbing oxygen from the air into the blood and exhaling carbon dioxide into the air. Observations of spontaneous breathing, usually registered as part of the observation of vital functions.

1.3 Mindmap

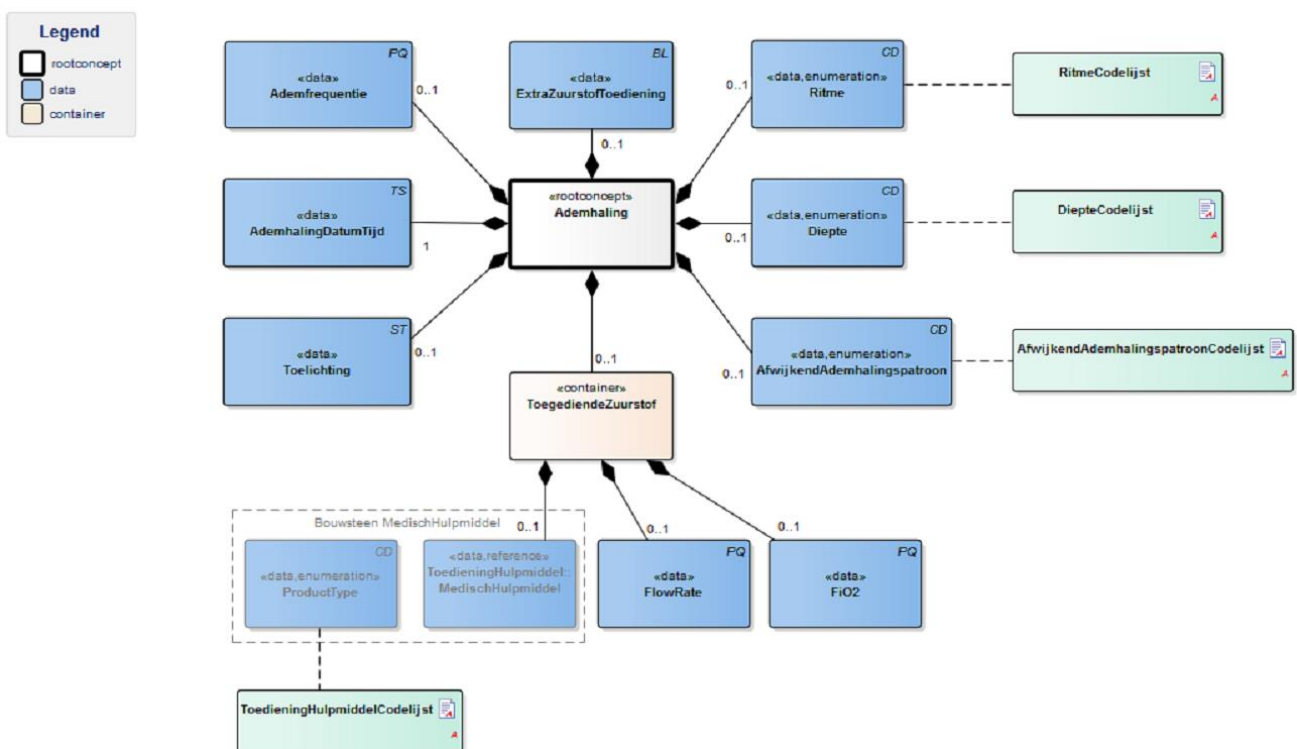
1.4 Purpose

Observing a person's spontaneous breathing, including recording breathing frequency, depth and rhythm, is done to gain an indication of the health condition of the patient's pulmonary system.

1.5 Patient Population

1.6 Evidence Base

1.7 Information Model



«rootconcept»	Ademhaling	
Alias	EN: Breathing	
Definition	Root concept of the Breathing information model. This root concept contains all data elements of the Breathing information model.	
Datatype		
DCM::DefinitionCode	NL-CM:12.5.1	
Options		

«data»	Ademfrequentie	
Alias	EN: Breathing frequency	
Definition	The value of the measured breathing frequency. The breathing frequency is the number of breaths per minute.	
Datatype	PQ	

DCM::DefinitionCode	SNOMED CT: 86290005 Respiratory rate (observable entity)	
DCM::DefinitionCode	NL-CM:12.5.2	
DCM::ExampleValue	15/min	
Options		

«data»	AdemhalingDatumTijd	
Alias	EN: BreathingDateTime	
Definition	Date and if possible time of measurement.	
Datatype	TS	
DCM::DefinitionCode	NL-CM:12.5.4	
Options		

«data»	Ritme	
Alias	EN: Rhythm	
Definition	The rhythm or regularity of breathing.	
Datatype	CD	
DCM::DefinitionCode	SNOMED CT: 48064009 Respiratory rhythm	
DCM::DefinitionCode	NL-CM:12.5.5	
DCM::ValueSet	RitmeCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.5.1
Options		

«data»	Diepte	
Alias	EN: Depth	
Definition	The depth of the breaths.	
Datatype	CD	
DCM::DefinitionCode	NL-CM:12.5.6	
DCM::DefinitionCode	SNOMED CT: 271626009 Depth of respiration	
DCM::ValueSet	DiepteCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.5.2
Options		

«data»	AfwijkendAdemhalingspatroon	
Alias	EN: DeviatingBreathingPattern	
Definition	Specific, abnormal breathing patterns.	
Datatype	CD	
DCM::DefinitionCode	SNOMED CT: 278907009 Respiratory pattern	
DCM::DefinitionCode	NL-CM:12.5.7	
DCM::ValueSet	AfwijkendAdemhalingspatroonCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.5.3
Options		

«data»	ExtraZuurstofToediening	
Alias	EN: ExtraOxygenAdministration	
Definition	An indication stating whether the patient is given extra oxygen. In that event, additional information can be recorded in the concepts that are part	

	of the AdministeredOxygen container.	
Datatype	BL	
DCM::DefinitionCode	NL-CM:12.5.12	
Options		

«data»	Toelichting	
Alias	EN: Explanation	
Definition	Comment on additional factors that can influence breathing such as the extent of fear, pain, nutrition in the case of infants or a tracheostomy.	
Datatype	ST	
DCM::DefinitionCode	NL-CM:12.5.3	
Options		

«container»	ToegediendeZuurstof	
Alias	EN: AdministeredOxygen	
Definition	Container of the AdministeredOxygen concept. This container contains all data elements of the AdministeredOxygen concept.	
Datatype		
DCM::DefinitionCode	NL-CM:12.5.8	
Options		

«data»	FlowRate	
Alias	EN: FlowRate	
Definition	The amount of administered oxygen. The value is between 0.0 and 50.0 l/min.	
Datatype	PQ	
DCM::DefinitionCode	NL-CM:12.5.10	
DCM::DefinitionCode	SNOMED CT: 165033004 Respiratory flow rate	
Options		

«data»	FiO2	
Alias	EN: FiO2	
Definition	The fractional concentration of inspired oxygen. Value is between 0.0 and 1.0, with a normal value of 0.21 (no extra oxygen administered).	
Datatype	PQ	
DCM::DefinitionCode	SNOMED CT: 250774007 Inspired oxygen concentration	
DCM::DefinitionCode	NL-CM:12.5.9	
Options		

«data»	ToedieningHulpmiddel::MedischHulpmiddel	
Alias	EN: AidExplanation::MedicalAid	
Definition	Aid used for administering extra oxygen to the patient.	
Datatype		
DCM::DefinitionCode	NL-CM:12.5.13	

DCM::ReferencedDefinitionCode	NL-CM:10.1.1	This is a reference to concept MedischHulpmiddel in information model MedischHulpmiddel.
Options		

«data»	ProductType	
Alias	EN: ProductType	
Definition		
Datatype	CD	
DCM::DefinitionCode	NL-CM:10.1.3	
DCM::ValueSet	ToedieningHulpmiddelCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.5.4
Options		

«document»	ToedieningHulpmiddelCodelijst	
Alias		
Definition		
Datatype		
Options		

ToedieningHulpmiddelCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.5.4		
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
Oxygen nasal cannula	336623009	SNOMED CT	2.16.840.1.113883.6.96	Neusbril
Venturi mask	428285009	SNOMED CT	2.16.840.1.113883.6.96	Venturi masker
Nonrebreather oxygen mask	427591007	SNOMED CT	2.16.840.1.113883.6.96	Non-rebreathing masker
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»	AfwijkendAdemhalingspatroonCodelijst	
Alias		
Definition		
Datatype		
Options		

AfwijkendAdemhalingspatroonCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.5.3		
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
Kussmaul's respiration	414563008	SNOMED CT	2.16.840.1.113883.6.96	Ademhaling volgens Kussmaul
Cheyne-Stokes respiration	309155007	SNOMED CT	2.16.840.1.113883.6.96	Ademhaling volgens Cheyne-Stokes
Ataxic respiration	39106000	SNOMED CT	2.16.840.1.113883.6.96	Atactische ademhaling
Apneustic breathing	70185004	SNOMED CT	2.16.840.1.113883.6.96	Apneustische ademhaling
Cluster breathing	7013003	SNOMED CT	2.16.840.1.113883	Cluster ademhaling

			3.6.96	
Apnoea	1023001	SNOMED CT	2.16.840.1.11388 3.6.96	Apneu
Prolonged expiration	248586000	SNOMED CT	2.16.840.1.11388 3.6.96	Verlengde expiratoire fase
Gasping respiration	23141003	SNOMED CT	2.16.840.1.11388 3.6.96	Happende ademhaling
Other	OTH	NullFlavor	2.16.840.1.11388 3.5.1008	Anders

«document»		DiepteCodelijst		
Alias				
Definition				
Datatype				
Options				
DiepteCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.5.2		
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
Normal depth of breathing	301284009	SNOMED CT	2.16.840.1.113883.6.96	Normale ademhalingsdiepte
Shallow breathing	386616007	SNOMED CT	2.16.840.1.113883.6.96	Oppervlakkige ademhaling
Deep breathing	289123006	SNOMED CT	2.16.840.1.113883.6.96	Diepe ademhaling
Depth of respiration varies	248587009	SNOMED CT	2.16.840.1.113883.6.96	Ademhalingsdiepte varieert

«document»		RitmeCodelijst		
Alias				
Definition				
Datatype				
Options				
RitmeCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.5.1		
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
Normal respiratory rhythm	5467003	SNOMED CT	2.16.840.1.113883.6.96	Normaal ademhalingsritme
Abnormal respiratory rhythm	85617008	SNOMED CT	2.16.840.1.113883.6.96	Abnormaal ademhalingsritme

1.8 Example Instances

Ademhaling	
Ritme	Normaal ademhalingsritme
Diepte	Normale ademhalingsdiepte
AfwijkendAdemhalingspatroon	-
Ademfrequentie	15/min
AdemhalingDatumTijd	11-03-2015 14:47
ExtraZuurstofToediening	Ja
Toelichting	-
ToegediendeZuurstof	
FlowRate	2 l/min
FI02	0,29l
ToedieningHulpmiddel	
ProductType	Neusbril

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. Parelsnoer DCM Ademhalingsfrequentie v0.4 [Online] Beschikbaar op: <http://www.nictiz.nl/uploaded/FILES/htmlcontent/dcm/parelsnoer/nl.parelsnoer.Ademhalingsfrequentie.v0.4.pdf> [Geraadpleegd: 23 februari 2015].
2. openEHR-EHR-OBSERVATION.respiration.v1 [Online] Beschikbaar op: <http://www.openehr.org/knowledge/> [Geraadpleegd: 23 februari 2015].

1.16 Functional Model

1.17 Traceability to other Standards

1.18 Disclaimer

This Health and Care Information Model (a.k.a Clinical Building Block) has been made in collaboration with several different parties in healthcare. These parties asked Nictiz to manage good maintenance and development of the information models. Hereafter, these parties and Nictiz are referred to as the collaborating parties. The collaborating parties paid utmost attention to the reliability and topicality of the data in these Health and Care Information Models. Omissions and inaccuracies may however occur. The collaborating parties are not liable for any damages resulting from omissions or inaccuracies in the information provided, nor are they liable for damages resulting from problems caused by or inherent to distributing information on the internet, such as malfunctions, interruptions, errors or delays in information or services provide by the parties to you or by you to the parties via a website or via e-mail, or any other digital means. The collaborating parties will also not accept liability for any damages resulting from the use of data, advice or ideas provided by or on behalf of the parties by means of this Health and Care Information Model. The parties will not accept any liability for the content of information in this Health and Care Information Model to which or from which a hyperlink is referred. In the event of contradictions in mentioned Health and Care Information Model documents and files, the most recent and highest version of the listed order in the revisions will indicate the priority of the documents in question. If information included in the digital version of this Health and Care Information Model is also distributed in writing, the written version will be leading in case of textual differences. This will apply if both have the same version number and date. A definitive version has priority over a draft version. A revised version has priority over previous versions.

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