

# **Health&Care Information Model:**

## **nl.zorg.BarthellIndex**

Final

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# Content

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# 1. nl.zorg.BarthelIndex-v3.0

DCM::CoderList	Kerngroep Registratie aan de Bron
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telem	*
DCM::ContentAuthorList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::CreationDate	2-2-2013
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telem	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.4.2
DCM::KeywordList	score, index, ADL, afhankelijkheid, barthel
DCM::LifecycleStatus	Final
DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.zorg.BarthelIndex
DCM::PublicationDate	1-5-2016
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	22-5-2015
DCM::Superseeds	nl.nfu.BarthelIndex-v1.2.1
DCM::Version	3.0

## 1.1 Revision History

Publicatieversie 1.0 (15-02-2013)

-

Publicatieversie 1.1 (01-07-2013)

-

Publicatieversie 1.2 (01-04-2015)

Bevat: ZIB-166, ZIB-168, ZIB-208, ZIB-209, ZIB-210, ZIB-211, ZIB-212, ZIB-308.

Incl. algemene wijzigingsverzoeken:

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

Publicatieversie 1.2.1 (22-05-2015)

Bevat: ZIB-375.

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-453

## 1.2 Concept

The Barthel ADL index is a validated scale used to measure and track patients' activities of daily living (ADL) and indirectly, the extent to which they are dependent on help.

The list comprises 10 variables: bowels, bladder, grooming, toilet use, feeding, transfers (from chair to bed and vice versa), mobility, dressing, climbing stairs and bathing, which are all given a score.

The total score is the sum of the scores of the 10 variables.

## 1.3 Mindmap

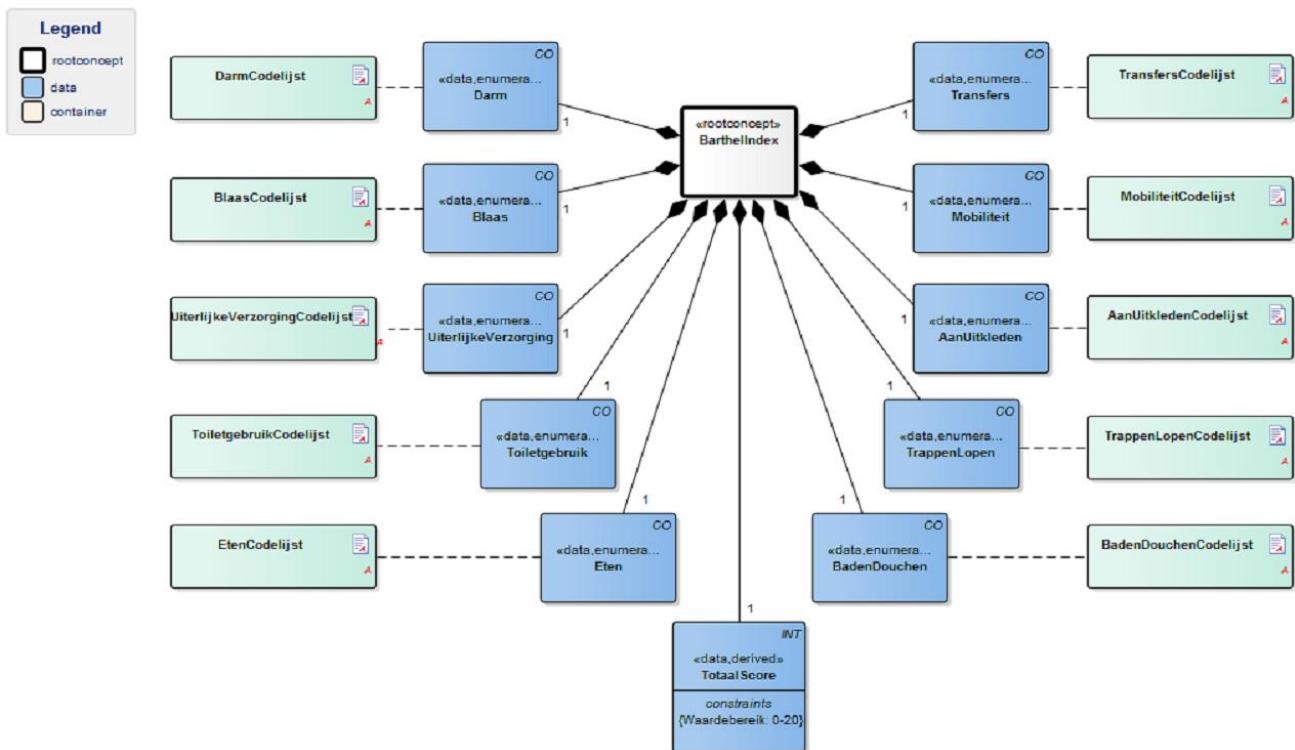
## 1.4 Purpose

Gaining insight into the dependence on healthcare for carrying out general daily activities by means of a validated score. This is done in order to adjust the care to meet the needs of the patient if necessary.

## 1.5 Patient Population

## 1.6 Evidence Base

## 1.7 Information Model



«rootconcept»	BarthelIndex	
Alias	EN: BarthelADLIndex	
Definition	Root concept of the BarthelADLIndex information model. This root concept contains all data elements of the BarthelADLIndex information model.	
Datatype		
DCM::DefinitionCode	SNOMED CT: 273302005 Barthel index (assessment scale)	
DCM::DefinitionCode	NL-CM:4.2.1	
Options		

<b>«data»</b>	Darm	
<b>Alias</b>	EN: bowels	
<b>Definition</b>	<p>The bowel function describes the extent of fecal incontinence.</p> <p>The measurement takes the condition as measured in the preceding week. In this scale, the following interpretations are used:</p> <ul style="list-style-type: none"> <li>• Incontinent: incontinent or enema required.</li> <li>• Accident: max. 1 accident per week.</li> <li>• Continent: continent for the entire week.</li> </ul>	
<b>Datatype</b>	CO	
<b>DCM::DefinitionCode</b>	NL-CM:4.2.4	FECAL
<b>DCM::ValueSet</b>	DarmCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.1
<b>Options</b>		

<b>«data»</b>	Blaas	
<b>Alias</b>	EN: bladder	
<b>Definition</b>	<p>The bladder function describes the extent of urinary incontinence.</p> <p>The measurement takes the condition as measured in the preceding week. In this scale, the following interpretations are used:</p> <ul style="list-style-type: none"> <li>• Incontinent: incontinent or catheter required.</li> <li>• Accident: max. 1 accident per 24 hours.</li> <li>• Continent: continent for the entire week or patients who can attend to their own catheter.</li> </ul>	
<b>Datatype</b>	CO	
<b>DCM::DefinitionCode</b>	NL-CM:4.2.3	URIN
<b>DCM::ValueSet</b>	BlaasCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.2
<b>Options</b>		

<b>«data»</b>	UiterlijkeVerzorging	
<b>Alias</b>	EN: grooming	
<b>Definition</b>	<p>Grooming indicates the extent to which a patient is capable of maintaining their hygiene and appearance. This refers to personal hygiene such as brushing teeth, brushing hair, shaving and washing.</p> <p>The measurement takes the condition as measured in the preceding 24-48 hours.</p> <p>In this scale, the following interpretations are used:</p> <ul style="list-style-type: none"> <li>• Dependent: not capable of grooming independently.</li> <li>• Independent: capable of brushing teeth, brushing hair, shaving and washing independently.</li> </ul>	
<b>Datatype</b>	CO	
<b>DCM::DefinitionCode</b>	NL-CM:4.2.5	GROOM
<b>DCM::ValueSet</b>	UiterlijkeVerzorgingCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.3
<b>Options</b>		

<b>«data»</b>	Toiletgebruik	
<b>Alias</b>	EN: ToiletUse	
<b>Definition</b>	<p>Toilet use indicates the extent to which a patient is capable of using the toilet independently.</p> <p>In this scale, the following interpretations are used:</p> <ul style="list-style-type: none"> <li>• Dependent: dependent.</li> <li>• Help: needs some help but can do certain things themselves, like wiping.</li> <li>• Independent: capable of using the toilet, sufficiently undressing, cleaning, getting dressed and leaving.</li> </ul>	
<b>Datatype</b>	CO	
<b>DCM::DefinitionCode</b>	NL-CM:4.2.6	TOIL
<b>DCM::ValueSet</b>	ToiletgebruikCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.4
<b>Options</b>		

<b>«data»</b>	Eten	
<b>Alias</b>	EN: Feeding	
<b>Definition</b>	<p>Feeding indicates the extent to which a patient is capable of eating independently.</p> <p>In this scale, the following interpretations are used:</p> <ul style="list-style-type: none"> <li>• Not independent: not capable of eating independently.</li> <li>• Help: food is puréed; patient does feed themselves, but needs help cutting food, spreading butter, et cetera.</li> <li>• Independent: capable of eating normal food (including hard food). The food can be cooked and served by others, but is not to be puréed.</li> </ul>	
<b>Datatype</b>	CO	
<b>DCM::DefinitionCode</b>	NL-CM:4.2.7	FEED
<b>DCM::ValueSet</b>	EtenCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.5
<b>Options</b>		

<b>«data»</b>	Transfers	
<b>Alias</b>	EN: transfers	
<b>Definition</b>	<p>Transfers indicates the extent to which a patient is capable of independently getting from a chair to the bed and vice versa.</p> <p>In this scale, the following interpretations are used:</p> <ul style="list-style-type: none"> <li>• Not independent: not capable of sitting up; the use of a patient hoist is required.</li> <li>• Major help: help from a strong, trained individual or 2 regular individuals, but the patient can sit up by themselves.</li> <li>• Minor help: a person to supervise or provide some help, either verbally or physically.</li> <li>• Independent: does not need help.</li> </ul>	
<b>Datatype</b>	CO	

<b>DCM::DefinitionCode</b>	NL-CM:4.2.8	TRANS
<b>DCM::ValueSet</b>	TransfersCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.6
<b>Options</b>		

«data»	Mobiliteit	
<b>Alias</b>	EN: mobility	
<b>Definition</b>	<p>Mobility indicates the extent to which a patient is capable of moving independently.</p> <p>In this scale, the following interpretations are used:</p> <ul style="list-style-type: none"> <li>• Dependent: cannot move themselves.</li> <li>• Independent with wheelchair: uses a wheelchair, with the ability to go around corners or open doors without help.</li> <li>• Assisted walking: help from one person, for example verbally or physically.</li> <li>• Independent: can move within the home or department; aids may be used.</li> </ul>	
<b>Datatype</b>	CO	
<b>DCM::DefinitionCode</b>	NL-CM:4.2.9	MOB
<b>DCM::ValueSet</b>	MobiliteitCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.7
<b>Options</b>		

«data»	AanUitkleden	
<b>Alias</b>	EN: dressing	
<b>Definition</b>	<p>Dressing indicates the extent to which a patient is capable of dressing and undressing themselves independently.</p> <p>In this scale, the following interpretations are used:</p> <ul style="list-style-type: none"> <li>• Dependent: dependent.</li> <li>• Help: needs help but can do about half themselves, such as only needing help with buttons and/or zippers.</li> <li>• Independent: capable of selecting and putting on clothes.</li> </ul>	
<b>Datatype</b>	CO	
<b>DCM::DefinitionCode</b>	NL-CM:4.2.10	DRESS
<b>DCM::ValueSet</b>	AanUitkledenCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.8
<b>Options</b>		

«data»	TrappenLopen	
<b>Alias</b>	EN: climbing stairs	
<b>Definition</b>	<p>Climbing stairs indicates the extent to which a patient is capable of going up and down stairs independently.</p> <p>In this scale, the following interpretations are used:</p> <ul style="list-style-type: none"> <li>• Dependent: not capable of going up and down stairs.</li> <li>• Help: needs help, for example verbally, physically or in the form of an aid.</li> <li>• Independent: capable of going up and down stairs independently, and if necessary can carry their own aid.</li> </ul>	

Datatype	CO	
DCM::DefinitionCode	NL-CM:4.2.11	CLIMB
DCM::ValueSet	TrappenLopenCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.9
Options		

«data»	BadenDouchen	
Alias	EN: bathing	
Definition	<p>Bathing indicates the extent to which a patient is capable of independently taking a bath or shower.</p> <p>In this scale, the following interpretations are used:</p> <ul style="list-style-type: none"> <li>Dependent: not capable of bathing independently.</li> <li>Independent: capable of getting in and out of the bath or shower and bathing without help or supervision.</li> </ul>	
Datatype	CO	
DCM::DefinitionCode	NL-CM:4.2.12	BATH
DCM::ValueSet	BadenDouchenCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.10
Options		

«data»	TotaalScore	
Alias	EN: TotalScore	
Definition	<p>The Barthel ADL index is the sum of the scores of the individual variables. The interpretation of this total score is 0-9 for serious dependence, 10-19 for slight dependence and 20 for independence. Twenty is the maximum score.</p>	
Datatype	INT	
DCM::DefinitionCode	NL-CM:4.2.2	TOTSCORE
Options		
Constraint	Waardebereik: 0-20	

«document»	AanUitkledenCodelijst				
Alias					
Definition					
Datatype					
Options					
AanUitkledenCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.8				
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
Afhankelijk	DRESS0	0	BarthelAanUitkleden	2.16.840.1.113883.2.4.3.11.60.40.2.4.1.8	Afhankelijk
Hulp	DRESS1	1	BarthelAanUitkleden	2.16.840.1.113883.2.4.3.11.60.40.2.4.1.8	Heeft hulp nodig maar kan ongeveer de helpt zelf
Onafhankelijk	DRESS2	2	BarthelAanUitkleden	2.16.840.1.113883.2.4.3	Onafhankelijk

			tkleden	.11.60.40.4.1.8	
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«document»		BadenDouchenCodelijst				
Alias						
Definition						
Datatype						
Options						
BadenDouchenCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.10			
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description	
Afhankelijk	BATH0	0	BarthelBaden Douchen	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.10	Afhankelijk	
Onafhankelijk	BATH1	1	BarthelBaden Douchen	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.10	Onafhankelijk	

«document»		BlaasCodelijst				
Alias						
Definition						
Datatype						
Options						
BlaasCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.2			
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description	
Incontinent	URINO	0	BarthelBlaas	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.2	Incontinent of katheter	
Ongelukje	URIN1	1	BarthelBlaas	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.2	Af en toe een ongelukje (max. 1 keer per 24 uur)	
Continent	URIN2	2	BarthelBlaas	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.2	Continent (gedurende meer dan 7 dagen)	

«document»		DarmCodelijst				
Alias						
Definition						
Datatype						
Options						
DarmCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.1			
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description	
Incontinent	FECAL0	0	BarthelDarm	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.1	Incontinent	
Ongelukje	FECAL1	1	BarthelDarm	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.1	Af en toe een ongelukje	

Continent	FECAL2	2	BarthelDarm	2.16.840.1.113883.2.4.3.1 1.60.40.4.1.1	Continent
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«document»		EtenCodelijst			
Alias					
Definition					
Datatype					
Options					
EtenCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.5		
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
Niet zelfstandig	FEED0	0	BarthelEten	2.16.840.1.113883.2.4.3 .11.60.40.4.1.5	Niet in staat (niet zelfstandig)
Hulp	FEED1	1	BarthelEten	2.16.840.1.113883.2.4.3 .11.60.40.4.1.5	Heeft hulp nodig bij snijden, smeren van boter, enz.
Onafhankelijk	FEED2	2	BarthelEten	2.16.840.1.113883.2.4.3 .11.60.40.4.1.5	Onafhankelijk

«document»		MobiliteitCodelijst			
Alias					
Definition					
Datatype					
Options					
MobiliteitCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.7		
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
Afhankelijk	MOBIL0	0	BarthelMobilitet	2.16.840.1.113883 .2.4.3.11.60.40.4.1 .7	Kan zich niet verplaatsen
Onafhankelijk met rolstoel	MOBIL1	1	BarthelMobilitet	2.16.840.1.113883 .2.4.3.11.60.40.4.1 .7	Onafhankelijk, maar maakt gebruik van rolstoel, incl. het zonder hulp nemen van hoeken en deuren.
Loopt met hulp	MOBIL2	2	BarthelMobilitet	2.16.840.1.113883 .2.4.3.11.60.40.4.1 .7	Loopt met hulp van 1 persoon (hulp van woorden of lichamelijk)
Onafhankelijk	MOBIL3	3	BarthelMobilitet	2.16.840.1.113883 .2.4.3.11.60.40.4.1 .7	Onafhankelijk

«document»		ToiletgebruikCodelijst			
Alias					
Definition					

<b>Datatype</b>					
<b>Options</b>					
ToiletgebruikCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.4		
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
Afhankelijk	TOIL0	0	BarthelToiletg ebruik	2.16.840.1.113883.2.4.3.11.60.40.4.1.4	Afhankelijk
Hulp	TOIL1	1	BarthelToiletg ebruik	2.16.840.1.113883.2.4.3.11.60.40.4.1.4	Heeft enige hulp nodig maar kan sommige dingen zelf
Onafhankelijk	TOIL2	2	BarthelToiletg ebruik	2.16.840.1.113883.2.4.3.11.60.40.4.1.4	Onafhankelijk (op en af, uit- en aankleden, afvegen)

<b>«document»</b>		TransfersCodelijst			
<b>Alias</b>					
<b>Definition</b>					
<b>Datatype</b>					
<b>Options</b>					
TransfersCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.6		
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
Niet zelfstandig	TRANS0	0	BarthelTransf er	2.16.840.1.113883.2.4.3.11.60.40.4.1.6	Niet in staat (niet zelfstandig)
Veel hulp	TRANS1	1	BarthelTransf er	2.16.840.1.113883.2.4.3.11.60.40.4.1.6	Veel hulp (1-2 mensen lichamelijk)
Weinig hulp	TRANS2	2	BarthelTransf er	2.16.840.1.113883.2.4.3.11.60.40.4.1.6	Weinig hulp (met hulp van woorden of lichamelijk)
Onafhankelijk	TRANS3	3	BarthelTransf er	2.16.840.1.113883.2.4.3.11.60.40.4.1.6	Onafhankelijk

<b>«document»</b>		TrappenLopenCodelijst			
<b>Alias</b>					
<b>Definition</b>					
<b>Datatype</b>					
<b>Options</b>					
TrappenLopenCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.9		
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
Afhankelijk	CLIMBO	0	BarthelTrapp enLopen	2.16.840.1.113883.2.4.3.11.60.40.4.1.9	Niet in staat

Hulp	CLIMB1	1	BarthelTrapp enLopen	2.16.840.1.113883.2 .4.3.11.60.40.4.1.9	Heeft hulp nodig (woorden, lichamelijk of hulpmiddel)
Onafhankelijk	CLIMB2	2	BarthelTrapp enLopen	2.16.840.1.113883.2 .4.3.11.60.40.4.1.9	Onafhankelijk naar boven en naar beneden

«document»		UiterlijkeVerzorgingCodelijst			
Alias					
Definition					
Datatype					
Options					
UiterlijkeVerzorgingCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.3			
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
Hulp	GROOM0	0	BarthelUiterlijke Verzorging	2.16.840.1.113883. 2.4.3.11.60.40.4.1.3	Heeft hulp nodig
Onafhankelijk	GROOM1	1	BarthelUiterlijke Verzorging	2.16.840.1.113883. 2.4.3.11.60.40.4.1.3	Onafhankelijk (gezicht, haar, tanden, scheren)

## 1.8 Example Instances

BarthelIndex	
Blaas	1
Darm	2
UiterlijkeVerzorging	1
Toiletgebruik	2
Eten	2
Transfers	1
Mobiliteit	1
AanUitkleden	1
TrappenLopen	2
BadenDouchen	1
TotaalScore	14

## 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. Barthel Index [Online] Beschikbaar op:  
[http://www.zorginformatiemodel.nl/1\\_documentatie/Doc\\_Obs\\_Barthel\\_Index\\_R01\\_V1\\_3.pdf](http://www.zorginformatiemodel.nl/1_documentatie/Doc_Obs_Barthel_Index_R01_V1_3.pdf)  
[Geraadpleegd: 23 februari 2015].
2. Barthel Index [Online] Beschikbaar op: <http://www.openehr.org/knowledge/> [Geraadpleegd: 18 februari 2013].
3. GOOSSEN, W.T.F. et al. (2004) *Specificaties CVA keteninformatiesysteem*. Versie 1.1. Leidschendam, Nictiz.
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6. PEPPEN VAN, R.P.S. et al. (2004) *Richtlijn Beroerte*. Amersfoort, Koninklijk Nederlands Genootschap voor Fysiotherapie (KNGF).

## **1.16 Functional Model**

## **1.17 Traceability to other Standards**

## **1.18 Disclaimer**

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