

Health & Care Information Model:

nl.zorg.BarthelADLIndex-v3.2

Status: Final

Release status: Prepublished

Content

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1. nl.zorg.BarthelADLIndex-v3.2

DCM::CoderList	Kerngroep Registratie aan de Bron
DCM::ContactInformation.Address	*
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DCM::ContentAuthorList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
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DCM::DescriptionLanguage	nl
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DCM::Version	3.2
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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Bevat: ZIB-453.

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-564.

Publicatieversie 3.2 (15-10-2023)

Bevat: ZIB-1692.

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

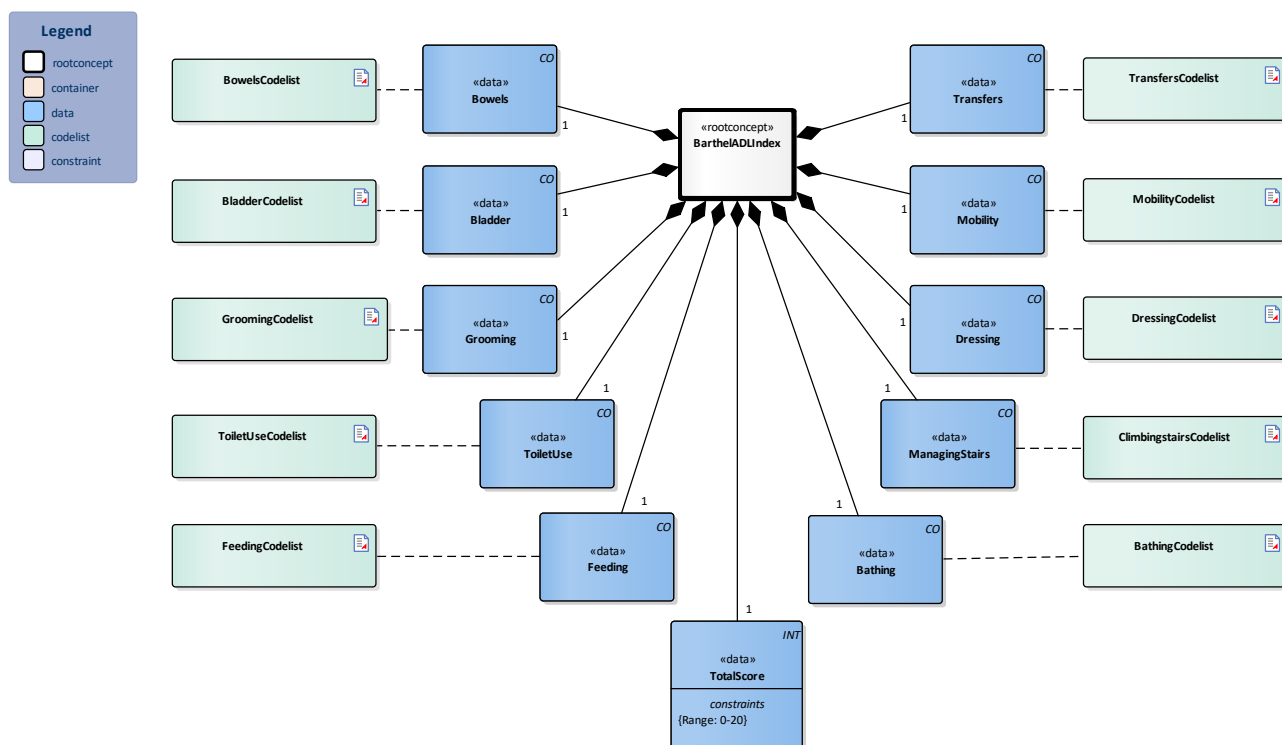
1.4 Purpose

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»	BarthelADLIndex	
Definitie	Root concept of the BarthelADLIndex information model. This root concept contains all data elements of the BarthelADLIndex information model.	
Datatype		
DCM::ConceptId	NL-CM:4.2.1	
DCM::DefinitionCode	SNOMED CT: 273302005 Barthel index (assessment scale)	
Opties		

«data»	Bowels	
Definitie	<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"> • Incontinent: incontinent or enema required. • Accident: max. 1 accident per week. • Continent: continent for the entire week. 	
Datatype	CO	
DCM::ConceptId	NL-CM:4.2.4	FECAL
DCM::DefinitionCode	ScoreObservaties: 4002004 BarthelADLIndex Bowels	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	BowelsCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.1
Opties		

«data»	Bladder	
Definitie	<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"> • Incontinent: incontinent or catheter required. • Accident: max. 1 accident per 24 hours. • Continent: continent for the entire week or patients who can attend to their own catheter. 	
Datatype	CO	
DCM::ConceptId	NL-CM:4.2.3	URIN
DCM::DefinitionCode	ScoreObservaties: 4002003 BarthelADLIndex Bladder	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	BladderCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.2
Opties		

«data»	Grooming	
Definitie	<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. In this scale, the following interpretations are used:</p> <ul style="list-style-type: none"> • Dependent: not capable of grooming independently. • Independent: capable of brushing teeth, brushing hair, shaving and washing independently. 	
Datatype	CO	
DCM::ConceptId	NL-CM:4.2.5	GROOM
DCM::DefinitionCode	ScoreObservaties: 4002005 BarthelADLIndex Grooming	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	GroomingCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.3
Opties		

«data»	ToiletUse	
Definitie	Toilet use indicates the extent to which a patient is capable of using the	

	toilet independently. In this scale, the following interpretations are used: <ul style="list-style-type: none"> • Dependent: dependent. • Help: needs some help but can do certain things themselves, like wiping. • Independent: capable of using the toilet, sufficiently undressing, cleaning, getting dressed and leaving. 	
Datatype	CO	
DCM::ConceptId	NL-CM:4.2.6	TOIL
DCM::DefinitionCode	ScoreObservaties: 4002006 BarthelADLIndex ToiletUse	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	ToiletUseCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.4
Opties		

«data»	Feeding	
Definitie	Feeding indicates the extent to which a patient is capable of eating independently. In this scale, the following interpretations are used: <ul style="list-style-type: none"> • Not independent: not capable of eating independently. • Help: food is puréed; patient does feed themselves, but needs help cutting food, spreading butter, et cetera. • Independent: capable of eating normal food (including hard food). The food can be cooked and served by others, but is not to be puréed. 	
Datatype	CO	
DCM::ConceptId	NL-CM:4.2.7	FEED
DCM::DefinitionCode	ScoreObservaties: 4002007 BarthelADLIndex Feeding	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	FeedingCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.5
Opties		

«data»	Transfers	
Definitie	Transfers indicates the extent to which a patient is capable of independently getting from a chair to the bed and vice versa. In this scale, the following interpretations are used: <ul style="list-style-type: none"> • Not independent: not capable of sitting up; the use of a patient hoist is required. • Major help: help from a strong, trained individual or 2 regular individuals, but the patient can sit up by themselves. • Minor help: a person to supervise or provide some help, either verbally or physically. • Independent: does not need help. 	
Datatype	CO	
DCM::ConceptId	NL-CM:4.2.8	TRANS
DCM::DefinitionCode	ScoreObservaties: 4002008 BarthelADLIndex Transfers	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	TransfersCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.6
Opties		

«data»	Mobility	
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Definitie	Mobility indicates the extent to which a patient is capable of moving independently. In this scale, the following interpretations are used: <ul style="list-style-type: none"> • Dependent: cannot move themselves. • Independent with wheelchair: uses a wheelchair, with the ability to go around corners or open doors without help. • Assisted walking: help from one person, for example verbally or physically. • Independent: can move within the home or department; aids may be used. 	
Datatype	CO	
DCM::ConceptId	NL-CM:4.2.9	MOB
DCM::DefinitionCode	ScoreObservaties: 4002009 BarthelADLIndex Mobility	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	MobilityCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.7
Opties		

«data»	Dressing	
Definitie	Dressing indicates the extent to which a patient is capable of dressing and undressing themselves independently. In this scale, the following interpretations are used: <ul style="list-style-type: none"> • Dependent: dependent. • Help: needs help but can do about half themselves, such as only needing help with buttons and/or zippers. • Independent: capable of selecting and putting on clothes. 	
Datatype	CO	
DCM::ConceptId	NL-CM:4.2.10	DRESS
DCM::DefinitionCode	ScoreObservaties: 4002010 BarthelADLIndex Dressing	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	DressingCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.8
Opties		

«data»	ManagingStairs	
Definitie	Managing stairs indicates the extent to which a patient is capable of going up and down stairs independently. In this scale, the following interpretations are used: <ul style="list-style-type: none"> • Dependent: not capable of going up and down stairs. • Help: needs help, for example verbally, physically or in the form of an aid. • Independent: capable of going up and down stairs independently, and if necessary can carry their own aid. 	
Datatype	CO	
DCM::ConceptId	NL-CM:4.2.11	CLIMB
DCM::DefinitionCode	ScoreObservaties: 4002011 BarthelADLIndex ManagingStairs	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	ClimbingstairsCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.9
Opties		

«data»	Bathing
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Definitie	Bathing indicates the extent to which a patient is capable of independently taking a bath or shower. In this scale, the following interpretations are used: <ul style="list-style-type: none"> • Dependent: not capable of bathing independently. • Independent: capable of getting in and out of the bath or shower and bathing without help or supervision. 	
Datatype	CO	
DCM::ConceptId	NL-CM:4.2.12	BATH
DCM::DefinitionCode	ScoreObservaties: 4002012 BarthelADLIndex Bathing	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	BathingCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.10
Opties		

«data»	TotalScore	
Definitie	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.	
Datatype	INT	
DCM::ConceptId	NL-CM:4.2.2	TOTSCORE
DCM::DefinitionCode	SNOMED CT: 725594005 Barthel Index of Activities of Daily Living score	
Opties		
Constraint	Range: 0-20	

«document»	DressingCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.8	
HCIM::ValueSetLanguage	NL	
Opties		

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	2.16.840.1.113883.2.4.3.11.60.40.4.1.8	Afhankelijk
Hulp	DRESS1	1	BarthelAanUitkleden	2.16.840.1.113883.2.4.3.11.60.40.4.1.8	Heeft hulp nodig maar kan ongeveer de helft zelf
Onafhankelijk	DRESS2	2	BarthelAanUitkleden	2.16.840.1.113883.2.4.3.11.60.40.4.1.8	Onafhankelijk

«document»	BathingCodelist	
Definitie		

Datatype					
DCM::ValueSetBinding	Required				
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.10				
HCIM::ValueSetLanguage	NL				
Opties					
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	BarthelBadenDouchen	2.16.840.1.113883.2.4.3.11.60.40.4.1.10	Afhankelijk
Onafhankelijk	BATH1	1	BarthelBadenDouchen	2.16.840.1.113883.2.4.3.11.60.40.4.1.10	Onafhankelijk

«document»		BladderCodelist			
Definitie					
Datatype					
DCM::ValueSetBinding		Required			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.4.2.2			
HCIM::ValueSetLanguage		NL			
Opties					
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	URIN0	0	BarthelBlaas	2.16.840.1.113883.2.4.3.11.60.40.4.1.2	Incontinent of katheter
Ongelukje	URIN1	1	BarthelBlaas	2.16.840.1.113883.2.4.3.11.60.40.4.1.2	Af en toe een ongelukje (max. 1 keer per 24 uur)
Continent	URIN2	2	BarthelBlaas	2.16.840.1.113883.2.4.3.11.60.40.4.1.2	Continent (gedurende meer dan 7 dagen)

«document»		BowelsCodelist			
Definitie					
Datatype					
DCM::ValueSetBinding		Required			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.4.2.1			
HCIM::ValueSetLanguage		NL			
Opties					
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	FECALO	0	BarthelDarm	2.16.840.1.113883.2.4.3.11.60.40.4.1.1	Incontinent

Ongelukje	FECAL1	1	BarthelDarm	2.16.840.1.113883.2.4.3.1 1.60.40.4.1.1	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

«document»		FeedingCodelist			
Definitie					
Datatype					
DCM::ValueSetBinding		Required			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.4.2.5			
HCIM::ValueSetLanguage		NL			
Opties					
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»		MobilityCodelist			
Definitie					
Datatype					
DCM::ValueSetBinding		Required			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.4.2.7			
HCIM::ValueSetLanguage		NL			
Opties					
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	BarthelMobiliteit	2.16.840.1.113883.2.4.3.11.60.40.4.1.7	Kan zich niet verplaatsen
Onafhankelijk met rolstoel	MOBIL1	1	BarthelMobiliteit	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	BarthelMobiliteit	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	BarthelMobilit eit	2.16.840.1.113883 .2.4.3.11.60.40.4.1 .7	Onafhankelijk
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«document»	ToiletUseCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.4.2.4	
HCIM::ValueSetLanguage	NL	
Opties		

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	TOILO	0	BarthelToiletgebruik	2.16.840.1.113883.2.4.3.11.60.40.4.1.4	Afhankelijk
Hulp	TOIL1	1	BarthelToiletgebruik	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	BarthelToiletgebruik	2.16.840.1.113883.2.4.3.11.60.40.4.1.4	Onafhankelijk (op en af, uit- en aankleden, afvegen)

«document»	TransfersCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.4.2.6	
HCIM::ValueSetLanguage	NL	
Opties		

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	BarthelTransfer	2.16.840.1.113883.2.4.3.11.60.40.4.1.6	Niet in staat (niet zelfstandig)
Veel hulp	TRANS1	1	BarthelTransfer	2.16.840.1.113883.2.4.3.11.60.40.4.1.6	Veel hulp (1-2 mensen lichamelijk)
Weinig hulp	TRANS2	2	BarthelTransfer	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	BarthelTransfer	2.16.840.1.113883.2.4.3.11.60.40.4.1.6	Onafhankelijk

«document»	ClimbingstairsCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	

DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.9				
HCIM::ValueSetLanguage	NL				
Opties					
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	CLIMB0	0	BarthelTrappenLopen	2.16.840.1.113883.2.4.3.11.60.40.4.1.9	Niet in staat
Hulp	CLIMB1	1	BarthelTrappenLopen	2.16.840.1.113883.2.4.3.11.60.40.4.1.9	Heeft hulp nodig (woorden, lichamelijk of hulpmiddel)
Onafhankelijk	CLIMB2	2	BarthelTrappenLopen	2.16.840.1.113883.2.4.3.11.60.40.4.1.9	Onafhankelijk naar boven en naar beneden

«document»		GroomingCodelist			
Definitie					
Datatype					
DCM::ValueSetBinding		Required			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.4.2.3			
HCIM::ValueSetLanguage		NL			
Opties					
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)

	Legend
Definitie	
Datatype	
Opties	

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
[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.
4. HAAN DE, R. et al. (1993) Klinimetrische evaluatie van de Barthel-index, een maat voor beperkingen in het dagelijks functioneren. *Nederlands Tijdschrift voor Geneeskunde*. 37 (18), p. 917-921.

5. MAHONY, F.I. et al. (1965) Functional Evaluation: The Barthel Index. *Maryland State Medical Journal*. 1965 (14), p .61-65.

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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