

Health & Care Information Model: nl.zorg.BartheIndex

Final

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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.Telecom	*
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.Telecom	
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

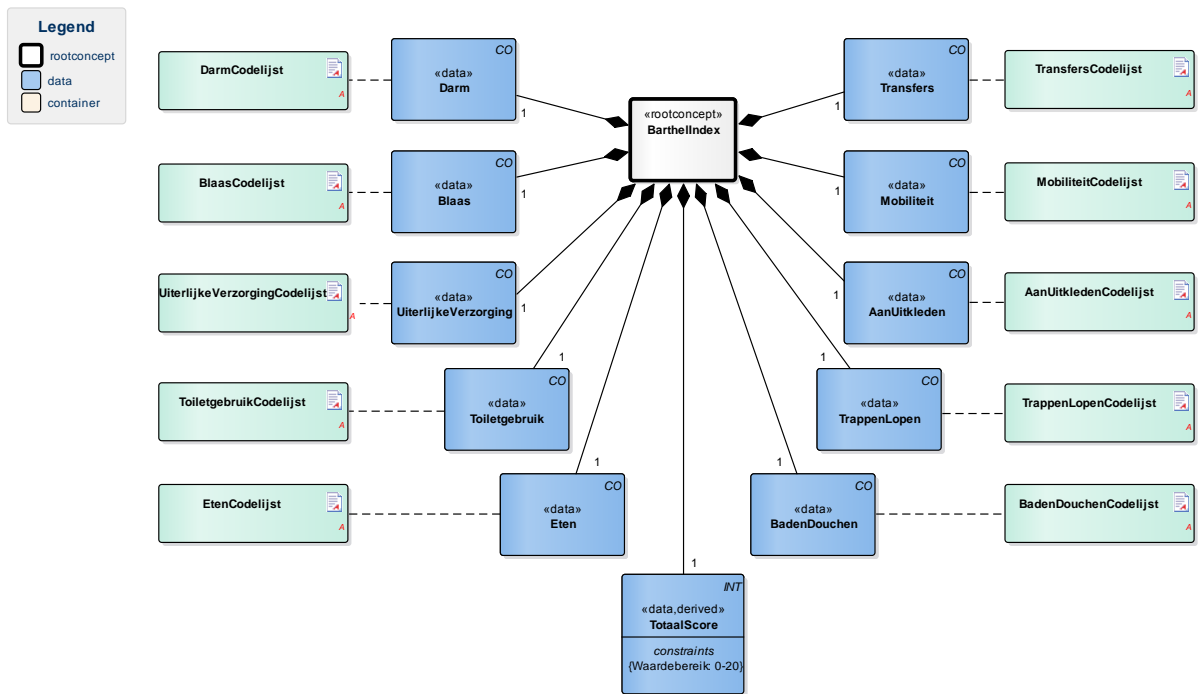
1.4 Purpose

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	
Definitie	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	
Opties		

«data»	Darm	
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::DefinitionCode	NL-CM:4.2.4	FECAL
DCM::ValueSet	DarmCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.1
Opties		

«data»	Blaas	
Definitie	The bladder function describes the extent of urinary incontinence.	

	The measurement takes the condition as measured in the preceding week. In this scale, the following interpretations are used: <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::DefinitionCode	NL-CM:4.2.3	URIN
DCM::ValueSet	BlaasCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.2
Opties		

«data»	UiterlijkeVerzorging	
Definitie	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. The measurement takes the condition as measured in the preceding 24-48 hours. In this scale, the following interpretations are used: <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::DefinitionCode	NL-CM:4.2.5	GROOM
DCM::ValueSet	UiterlijkeVerzorgingCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.3
Opties		

«data»	Toiletgebruik	
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::DefinitionCode	NL-CM:4.2.6	TOIL
DCM::ValueSet	ToiletgebruikCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.4
Opties		

«data»		Eten	
Definitie	<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"> • 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::DefinitionCode	NL-CM:4.2.7	FEED	
DCM::ValueSet	EtenCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.5	
Opties			

«data»		Transfers	
Definitie	<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"> • 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::DefinitionCode	NL-CM:4.2.8	TRANS	
DCM::ValueSet	TransfersCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.6	
Opties			

«data»		Mobiliteit	
Definitie	<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"> • 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::DefinitionCode	NL-CM:4.2.9	MOB
DCM::ValueSet	MobiliteitCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.7
Opties		

«data»	AanUitkleden	
Definitie	<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"> • 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::DefinitionCode	NL-CM:4.2.10	DRESS
DCM::ValueSet	AanUitkledenCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.8
Opties		

«data»	TrappenLopen	
Definitie	<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"> • 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::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
Opties		

«data»	BadenDouchen	
Definitie	<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"> • Dependent: not capable of bathing independently. 	

	<ul style="list-style-type: none"> Independent: capable of getting in and out of the bath or shower and bathing without help or supervision. 	
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
Opties		

«data»	TotaalScore	
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::DefinitionCode	NL-CM:4.2.2	TOTSCORE
Opties		
Constraint	Waardebereik: 0-20	

«document»	AanUitkledenCodelijst				
Definitie					
Datatype					
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»	BadenDouchenCodelijst	
Definitie		
Datatype		
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	BarthelBaden Douchen	2.16.840.1.113883.2.4. 3.11.60.40.4.1.10	Afhankelijk
Onafhankelijk	BATH1	1	BarthelBaden Douchen	2.16.840.1.113883.2.4. 3.11.60.40.4.1.10	Onafhankelijk

«document»		BlaasCodelijst			
Definitie					
Datatype					
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»		DarmCodelijst			
Definitie					
Datatype					
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	FECAL0	0	BarthelDarm	2.16.840.1.113883.2.4.3.1 1.60.40.4.1.1	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»		EtenCodelijst			
Definitie					
Datatype					
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»		MobiliteitCodelijst			
Definitie					
Datatype					
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	BarthelMobiliteit	2.16.840.1.113883.2.4.3.11.60.40.4.1.7	Onafhankelijk

«document»		ToiletgebruikCodelijst			
Definitie					
Datatype					
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»		TransfersCodelijst			
Definitie					
Datatype					
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»		TrappenLopenCodelijst			
Definitie					
Datatype					
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	Onafhankelijk naar

			enLopen	.4.3.11.60.40.4.1.9	boven en naar beneden
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«document»		UiterlijkeVerzorgingCodelijst			
Definitie					
Datatype					
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)

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

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