

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

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# Content

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# 1. nl.zorg.BarthelADLIndex-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	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
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DCM::Name	nl.zorg.BarthelIndex
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DCM::RevisionDate	31-12-2017
DCM::Superseeds	nl.zorg.BarthelIndex-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-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.

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-564.

## 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

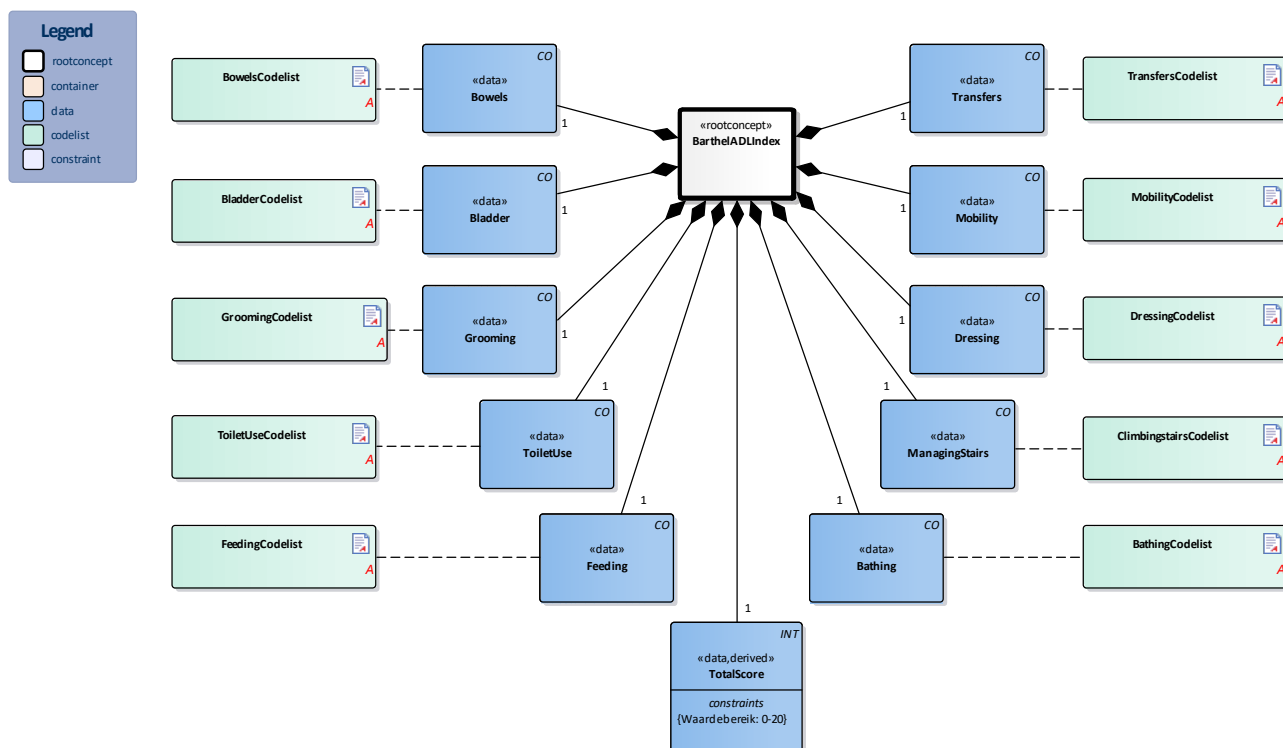
### 1.4 Purpose

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

«data»	Bowels	
<b>Definitie</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::ConceptId</b>	NL-CM:4.2.4	FECAL
<b>DCM::ValueSet</b>	BowelsCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.1
<b>Opties</b>		

«data»	Bladder	
<b>Definitie</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::ConceptId</b>	NL-CM:4.2.3	URIN
<b>DCM::ValueSet</b>	BladderCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.2
<b>Opties</b>		

«data»	Grooming	
<b>Definitie</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. 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::ConceptId</b>	NL-CM:4.2.5	GROOM
<b>DCM::ValueSet</b>	GroomingCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.3
<b>Opties</b>		

«data»	ToiletUse	
<b>Definitie</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,</li> </ul>	

	cleaning, getting dressed and leaving.	
<b>Datatype</b>	CO	
<b>DCM::ConceptId</b>	NL-CM:4.2.6	TOIL
<b>DCM::ValueSet</b>	ToiletUseCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.4
<b>Opties</b>		

«data»	Feeding	
<b>Definitie</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::ConceptId</b>	NL-CM:4.2.7	FEED
<b>DCM::ValueSet</b>	FeedingCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.5
<b>Opties</b>		

«data»	Transfers	
<b>Definitie</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::ConceptId</b>	NL-CM:4.2.8	TRANS
<b>DCM::ValueSet</b>	TransfersCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.6
<b>Opties</b>		

«data»	Mobility	
<b>Definitie</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::ConceptId</b>	NL-CM:4.2.9	MOB

<b>DCM::ValueSet</b>	MobilityCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.7
<b>Opties</b>		

<b>«data»</b>	<b>Dressing</b>	
<b>Definitie</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::ConceptId</b>	NL-CM:4.2.10	DRESS
<b>DCM::ValueSet</b>	DressingCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.8
<b>Opties</b>		

<b>«data»</b>	<b>ManagingStairs</b>	
<b>Definitie</b>	<p>Managing 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>	
<b>Datatype</b>	CO	
<b>DCM::ConceptId</b>	NL-CM:4.2.11	CLIMB
<b>DCM::ValueSet</b>	ClimbingstairsCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.9
<b>Opties</b>		

<b>«data»</b>	<b>Bathing</b>	
<b>Definitie</b>	<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>	
<b>Datatype</b>	CO	
<b>DCM::ConceptId</b>	NL-CM:4.2.12	BATH
<b>DCM::ValueSet</b>	BathingCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.10
<b>Opties</b>		

<b>«data»</b>	<b>TotalScore</b>	
<b>Definitie</b>	<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>	
<b>Datatype</b>	INT	
<b>DCM::ConceptId</b>	NL-CM:4.2.2	TOTSCORE

<b>Opties</b>	
<b>Constraint</b>	Waardebereik: 0-20

<b>«document»</b>	<b>DressingCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Extensible	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.8	
<b>Opties</b>		

<b>AanUitkledenCodelijst</b>			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.8		
<b>Concept Name</b>	<b>Concept Code</b>	<b>Concept Value</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>	<b>Description</b>
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

<b>«document»</b>	<b>BathingCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Extensible	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.10	
<b>Opties</b>		

<b>BadenDouchenCodelijst</b>			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.10		
<b>Concept Name</b>	<b>Concept Code</b>	<b>Concept Value</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>	<b>Description</b>
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

<b>«document»</b>	<b>BladderCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Extensible	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.2	
<b>Opties</b>		

<b>BlaasCodelijst</b>	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.2.2
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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		Extensible			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.4.2.1			
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	2.16.840.1.113883.2.4.3.11.60.40.4.1.1	Incontinent
Ongelukje	FECAL1	1	BarthelDarm	2.16.840.1.113883.2.4.3.11.60.40.4.1.1	Af en toe een ongelukje
Continent	FECAL2	2	BarthelDarm	2.16.840.1.113883.2.4.3.11.60.40.4.1.1	Continent

«document»		FeedingCodelist			
Definitie					
Datatype					
DCM::ValueSetBinding		Extensible			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.4.2.5			
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		Extensible			

<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.7				
<b>Opties</b>					
<b>MobiliteitCodelijst</b>			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

<b>«document»</b>	<b>ToiletUseCodelist</b>				
<b>Definitie</b>					
<b>Datatype</b>					
<b>DCM::ValueSetBinding</b>	Extensible				
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.4				
<b>Opties</b>					
<b>ToiletgebruikCodelijst</b>			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)

<b>«document»</b>	<b>TransfersCodelist</b>				
<b>Definitie</b>					
<b>Datatype</b>					
<b>DCM::ValueSetBinding</b>	Extensible				
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.6				
<b>Opties</b>					
<b>TransfersCodelijst</b>			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	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.9	
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	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.2.3	
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	BarthelUiterlijkeVerzorging	2.16.840.1.113883.2.4.3.11.60.40.4.1.3	Heeft hulp nodig
Onafhankelijk	GROOM1	1	BarthelUiterlijkeVerzorging	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

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2. Barthel Index [Online] Beschikbaar op: <http://www.openehr.org/knowledge/> [Geraadpleegd: 18 februari 2013].
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## 1.16 Functional Model

## 1.17 Traceability to other Standards

## 1.18 Disclaimer

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