

Health & Care Information Model:

nl.zorg.BowelFunction-v4.0

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1. nl.zorg.BowelFunction-v4.0

DCM::CoderList	Werkgroep RadB Verpleegkundige Gegevens
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Werkgroep RadB Verpleegkundige Gegevens
DCM::CreationDate	1-4-2014
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	NFU & V&VN
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.4.15
DCM::KeywordList	Defecatie, continentie
DCM::LifecycleStatus	Final
DCM::ModelerList	Werkgroep RadB Verpleegkundige Gegevens
DCM::Name	nl.zorg.Darmfunctie
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DCM::RevisionDate	10-05-2022
DCM::Supersedes	nl.zorg.Darmfunctie-v3.1.2
DCM::Version	4.0
HCM::PublicationLanguage	EN
MAX::SchematronFile	C:\Eclipse Workspace\NieuwEPD\9.01 Schematron\901 Validation Rules.sch

1.1 Revision History

Publicatieversie 1.0 (01-07-2015)

Publicatieversie 3.0 (01-05-2016)
Bevat: ZIB-453.

Publicatieversie 3.1 (04-09-2017)
Bevat: ZIB-530, ZIB-531, ZIB-544.

Publicatieversie 3.1.1 (01-10-2018)
Bevat: ZIB-732.

Publicatieversie 3.1.2 (01-12-2021)
Bevat: ZIB-1582.

Publicatieversie 4.0 (10-06-2022)
Bevat: ZIB-1581.

1.2 Concept

An important function of the rectum in particular is the temporary storage and excretion of feces, at the moment there is cause to do so. Disrupting the bowel functions can lead to fecal incontinence and constipation.

1.3 Mindmap

1.4 Purpose

Information on bowel function disorders is important in drawing up the nursing plan and for patient care. Furthermore, information on feces (shape and color) offers additional information on the patient's health condition.

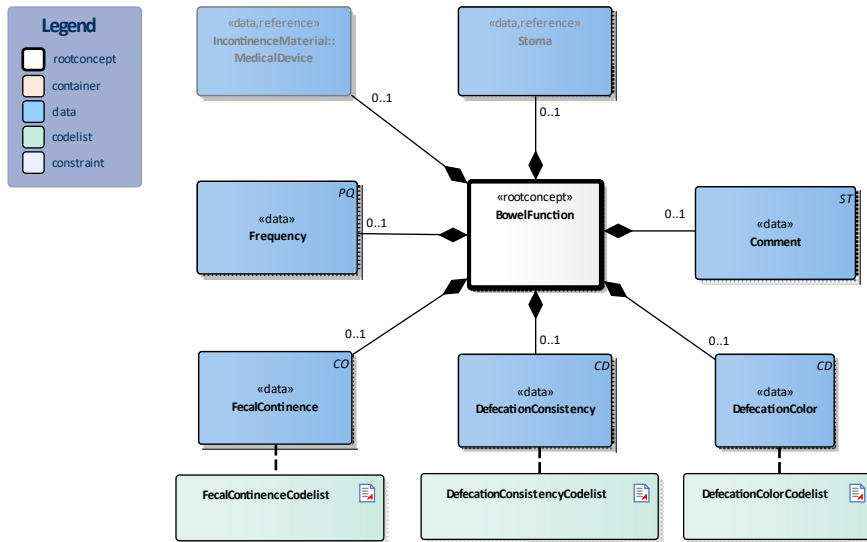
In a transfer situation, it offers the ability to anticipate the arrival of the patient and to achieve continuity in healthcare for the patient. This way, material or expertise can be coordinated beforehand, for example.

1.5 Patient Population

1.6 Evidence Base

The definitions of the concepts were (partially) taken from the ICF definitions.

1.7 Information Model



«rootconcept»	BowelFunction
Definitie	Root concept of the BowelFunction information model. This root concept contains all data elements of the BowelFunction information model.
Datatype	
DCM::ConceptId	NL-CM:4.15.1
DCM::DefinitionCode	SNOMED CT: 300373008 Finding of defecation
Opties	

«data»	FecalContinenence
Definitie	Fecal continence is the voluntary control over the excretion of feces.
Datatype	CO

DCM::ConceptId	NL-CM:4.15.2	
DCM::DefinitionCode	SNOMED CT:129008009 Bowel control	
DCM::ValueSet	FecalContinenceCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.15.1
Opties		

«data»		Stoma
Definitie	Stoma describes the presence of an unnatural, surgically created opening. If the patient has a stoma, the type of stoma must be entered along with the date on and location at which the stoma and any stoma pouches were placed. A comment can also be entered.	
Datatype		
DCM::ConceptId	NL-CM:4.15.3	
DCM::ExampleValue	Dubbelloops colostoma	
DCM::ReferencedConceptId	NL-CM:5.2.1	This is a reference to the rootconcept of information model Stoma.
Opties		

«data»		Frequency
Definitie	The defecation frequency.	
Datatype	PQ	
DCM::ConceptId	NL-CM:4.15.4	
DCM::DefinitionCode	SNOMED CT: 162098000 Frequency of defecation	
DCM::ExampleValue	1 maal per uur	
Opties		

«data»		DefecationConsistency
Definitie	The consistency of the feces indicates the hardness of the stool. The Bristol Stool scale is used to determine this.	
Datatype	CD	
DCM::ConceptId	NL-CM:4.15.9	
DCM::DefinitionCode	SNOMED CT: 443172007 Bristol stool form score	
DCM::ExampleValue	Type 4	
DCM::ValueSet	DefecationConsistencyCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.15.2
Opties		

«data»		DefecationColor
Definitie	The color of feces is possibly relevant for identifying underlying diseases, such as bleeding or biliary tract disease.	
Datatype	CD	
DCM::ConceptId	NL-CM:4.15.10	
DCM::DefinitionCode	LOINC: 9397-1 Color of stool	
DCM::ExampleValue	Zwart	
DCM::ValueSet	DefecationColorCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.15.5
Opties		

«data»		IncontinenceMaterial::MedicalDevice
Definitie	A description of the incontinence material used.	
Datatype		
DCM::ConceptId	NL-CM:4.15.6	

DCM::DefinitionCode	SNOMED CT: 337588003 Incontinence appliance	
DCM::ExampleValue	Elastisch broekje	
DCM::ReferencedConceptId	NL-CM:10.1.1	This is a reference to the rootconcept of information model MedicalDevice.
Opties		

«data»		Comment
Definitie	A comment on the BowelFunction.	
Datatype	ST	
DCM::ConceptId	NL-CM:4.15.7	
DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	
Opties		

«document»		DefecationConsistencyCodelist
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.15.2	
HCIM::ValueSetLanguage	EN	
Opties		

DefecatieConsistentieCodelijst					OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.15.2
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description	
Separate hard lumps, like nuts.	Type 1	BristolStoolTypes	2.16.840.1.113883.2.4.3.1.1.60.40.4.3.1	Losse harde keutels, zoals noten	
Sausage-shaped but lumpy.	Type 2	BristolStoolTypes	2.16.840.1.113883.2.4.3.1.1.60.40.4.3.1	Als een worst, maar klonterig	
Like sausage but with cracks on its surface.	Type 3	BristolStoolTypes	2.16.840.1.113883.2.4.3.1.1.60.40.4.3.1	Als een worst, maar met barstjes aan de buitenkant	
Like sausage or snake, smooth and soft.	Type 4	BristolStoolTypes	2.16.840.1.113883.2.4.3.1.1.60.40.4.3.1	Als een worst of slang, glad en zacht	
Soft blobs with clear-cut edges	Type 5	BristolStoolTypes	2.16.840.1.113883.2.4.3.1.1.60.40.4.3.1	Zachte keutels met duidelijke randen	
Fluffy pieces with ragged edges	Type 6	BristolStoolTypes	2.16.840.1.113883.2.4.3.1.1.60.40.4.3.1	Zachte stukjes met gehavende randen	
Entirely liquid	Type 7	BristolStoolTypes	2.16.840.1.113883.2.4.3.1.1.60.40.4.3.1	Helemaal vloeibaar	

«document»		DefecationColorCodelist
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.15.5	
HCIM::ValueSetLanguage	NL	
Opties		
DefecatieKleurCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.15.5

Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
Feces color: normal	167605001	SNOMED CT	2.16.840.1.113883.6.96	Normaal
Feces color: green	167609007	SNOMED CT	2.16.840.1.113883.6.96	Groen
Feces color: yellow	167607009	SNOMED CT	2.16.840.1.113883.6.96	Geel
Black feces	267055007	SNOMED CT	2.16.840.1.113883.6.96	Zwart
Pale feces	267056008	SNOMED CT	2.16.840.1.113883.6.96	Grijswit
Red stools	64412006	SNOMED CT	2.16.840.1.113883.6.96	Rood

«document»		FecalContinenceCodelist		
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.15.1			
HCIM::ValueSetLanguage	NL			
Opties				

FecesContinentieCodelist		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.15.1			
Concept Name	Concept Code	Concept Value	CodeSys. Name	CodeSystem OID	Description
Bowels: incontinent	72042002	0	SNOMED CT	2.16.840.1.113883.6.96	Incontinent
Bowels: occasional accident	165230005	1	SNOMED CT	2.16.840.1.113883.6.96	Af en toe een ongelukje
Bowels: fully continent	24029004	2	SNOMED CT	2.16.840.1.113883.6.96	Continent

Legend	
Definitie	
Datatype	
Opties	

1.8 Example Instances

Darmfunctie (stoma)	
Algemeen	
FecesContinentie	-
Frequentie	3 maal per dag
Incontinentiemateriaal	-
DefecatieConsistentie	Als een worst of slang, glad en zacht.
Defecatiekleur	Normaal
Stoma	
StomaType	Dubbelloops colostoma
AanlegDatum	31-02-2014
AnatomischeLocatie	Bovenbuik links
Toelichting	Stoma is definitief. Vandaag stoma verzorgd, samen met patiënt. Peristomale huid is licht geïrriteerd.

Darmfunctie (continentie stoornis)	
Algemeen	
FecesContinentie	Af en toe een ongelukje
Frequentie	4 maal per dag
Incontinentiemateriaal	Elastisch broekje
DefecatieConsistentie	Zachte stukjes met gehavende randen.
Defecatiekleur	Grijswit
Toelichting	Patiënt was vanmorgen incontinent.

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. International Classification of Functioning Disability and Health (ICF) [Online] Beschikbaar op: <http://www.rivm.nl/who-fic/icf.htm> [Geraadpleegd: 13 februari 2015]

2. Richtlijn stomazorg V&VN. [Online] Beschikbaar op:

<http://venvn.xcess-5.xec.nl/Portals/1/Nieuws/2013%20Documenten/20130527%20Richtlijn%20Stomazorg.pdf> [Geraadpleegd: 13 februari 2015]

3. LEWIS, SJ. HEATON, KW. (1997) Stool form scale as a useful guide to intestinal transit time. *Scand. J. Gastroenterol.* 32 (9). p.920–924.

1.16 Functional Model

1.17 Traceability to other Standards

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