

Health & Care Information Model: nl.nfu.MedicalDevice-v1.2

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1. nl.nfu.MedicalDevice-v1.2

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	2-1-2013
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	NFU
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.10.1
DCM::KeywordList	medisch hulpmiddel, implantaat
DCM::LifecycleStatus	Final
DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.nfu.MedischHulpmiddel
DCM::PublicationDate	1-4-2015
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	1-4-2015
DCM::Superseeds	
DCM::Version	1.2
HCIM::PublicationLanguage	EN

1.1 Revision History

Publicatieversie 1.0 (15-02-2013)

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Publicatieversie 1.1 (01-07-2013)

Bevat: ZIB-11.

Publicatieversie 1.2 (01-04-2015)

Bevat: ZIB-83, ZIB-88, ZIB-110, ZIB-249, ZIB-250, ZIB-251, ZIB-252, ZIB-308, ZIB-327, ZIB-353.

Incl. algemene wijzigingsverzoeken:

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

1.2 Concept

Medical aids are any internally implanted and external devices and/or aids used by the patient (in the past) to reduce the effects of functional limitations in organ systems or to facilitate the treatment of a disease.

1.3 Purpose

Data on medical aids is recorded for several reasons. Knowledge of the presence of these implants enables tracing and taking the aid or device into account in diagnostic or therapeutic procedures, care and transport.

Examples include:

- Consequences for transportation, toilet use, etc., in the case of a wheelchair;
- A pacemaker can be of medical importance, but also has consequences for planning radiological exams.

1.4 Patient Population

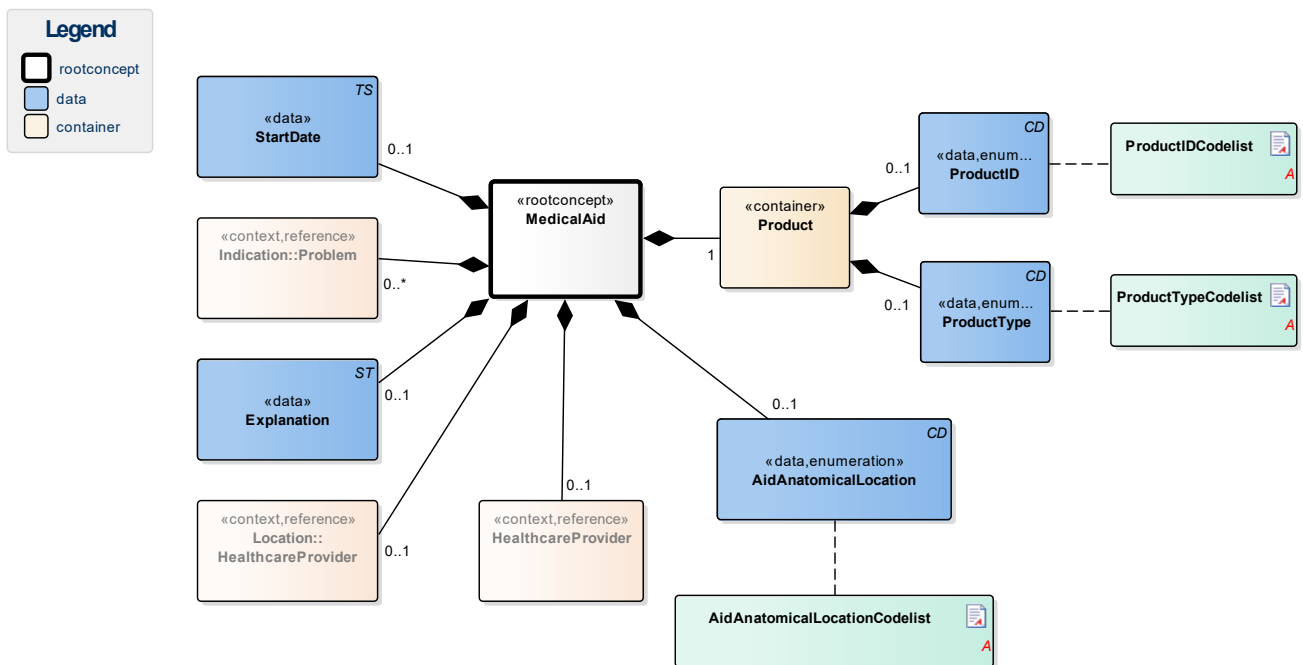
1.5 Evidence Base

Recording data on medically complex devices such as pacemakers is not yet common in EPD systems in the Netherlands, but is sometimes lacking: a letter from a specialist for example often does not include information on which type of pacemaker the patient has (and from which manufacturer).

The NFU opts for GS1 standards to increase patient safety and improve logistic efficiency.

The Dutch Ministry of Health, Welfare and Sport (VWS) will pass legislation for a national basic register of implants. Every healthcare center will have to supply a UDI (Unique Device Identification, with a link to GTIN) and a UPI (Unique Patient Identification) to the basic register. This will prevent situations in which a large group of patients have an aid or implant in which problems have been detected that cannot be traced.

1.6 Information Model



«rootconcept»	MedicalAid
Definitie	Root concept of the MedicalAid building block. This root concept contains all data elements of the MedicalAid building block.
Datatype	
DCM::ConceptId	NL-CM:10.1.1
Opties	

«container»	Product
Definitie	The medical aid used (internally or externally).

Datatype		
DCM::ConceptId	NL-CM:10.1.2	
Opties		

«data»	ProductID	
Definitie	<p>Unique identification of the product, such as the serial number.</p> <p>If the law requires this to be registered on the basis of a UDI (Unique Device Identifier), the unique identification must consist of a UDI-DI (Device Identifier) and a UDI-PI (Production Identifier(s)). See http://www.gs1.org/healthcare/udi for more information.</p> <p>The UDI-DI must be recorded in reference to GS1 GTIN (01) encryptions, with which for example a firm is linked to the product type. The UDI-PI must consist of the following: application identifier (AI); expiration date (17) and serial number (21) and/or batch or lot number (10).</p>	
Datatype	CD	
DCM::ConceptId	NL-CM:10.1.4	
DCM::ExampleValue	(01)08712345000004(17)160 131(10)200652	
DCM::ValueSet	ProductIDCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.1.3
Opties		

«data»	ProductType	
Definitie	The code of the type of product.	
Datatype	CD	
DCM::ConceptId	NL-CM:10.1.3	
DCM::ExampleValue	42192210 Wheelchairs	
DCM::ValueSet	ProductTypeCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.1.1
Opties		

«data»	StartDate	
Definitie	The start date of the first use or implant of the medical aid. A 'vague' date, such as only the year, is permitted.	
Datatype	TS	
DCM::ConceptId	NL-CM:10.1.11	
DCM::ExampleValue	24-02-2003	
Opties		

«context»	Indication::Problem	
Definitie	The medical reason for use of the medical aid.	
Datatype		
DCM::ConceptId	NL-CM:10.1.7	
DCM::ExampleValue	presbycusis (ICD10::H91.1)	
DCM::ReferencedConceptId	NL-CM:5.1.2	This is a reference to concept Problem in information model OverdrachtConcern
Opties		

«data»	Explanation
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Definitie	Comment about use or information on the medical aid used.	
Datatype	ST	
DCM::ConceptId	NL-CM:10.1.10	
Opties		

«data»	AidAnatomicalLocation	
Definitie	Patient's anatomical location of the medical aid used.	
Datatype	CD	
DCM::ConceptId	NL-CM:10.1.6	
DCM::ExampleValue	Linker oor 89644007	
DCM::ValueSet	AidAnatomicalLocationCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.1.2
Opties		

«context»	Location::HealthcareProvider	
Definitie	The healthcare provider at which use of the medical aid was initiated or where the aid was implanted.	
Datatype		
DCM::ConceptId	NL-CM:10.1.8	
DCM::ReferencedConceptId	NL-CM:17.2.1	This is a reference to concept Zorgaanbieder in information model Zorgaanbieder
Opties		

«context»	HealthcareProvider	
Definitie	The healthcare provider involved in the indication for use of the medical aid implant.	
Datatype		
DCM::ConceptId	NL-CM:10.1.9	
DCM::ReferencedConceptId	NL-CM:17.1.1	This is a reference to concept Zorgverlener in information model Zorgverlener
Opties		

«document»	AidAnatomicalLocationCodeList	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.10.1.2	
Opties		

HulpmiddelAnatomischeLocatieCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.1.2
Codes	Coding Syst. Name	Coding System OID
SNOMED CT: <<91723000 anatomical structure	SNOMED CT	2.16.840.1.113883.6.96

«document»	ProductIDCodeList	
Definitie		
Datatype		

DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.10.1.3	
Opties		
ProductIDCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.1.3
Codes	Coding Syst. Name	Coding System OID
Alle waarden	Global Trade Item Number (GTIN)	1.3.160

«document»	ProductTypeCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.10.1.1	
Opties		
ProductTypeCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.1.1
Codes	Coding Syst. Name	Coding System OID
Alle waarden	UNSPSC	2.16.840.1.113883.6.302

1.7 Example Instances

Begin Datum	Product		Hulpmiddel Anatomische Locatie	Indicatie	Locatie		Toelichting
	ProductID	ProductType		ProbleemNaam	Organisatie Naam	Afdeling Specialisme	
08-03-2012	42192210	Rolstoel		Multiple sclerose			Kan korte afstanden lopen

Begin Datum	Product		Hulpmiddel Anatomische Locatie	Indicatie	Locatie		Toelichting
	ProductID	ProductType		ProbleemNaam	Organisatie Naam	Afdeling Specialisme	
2007	42144000	Gehoorapparaat	Roor	Presbyacosis	St. Franciscus Gasthuis	Audiologie	Apparaat niet zichtbaar (diep in de gehooringang)

1.8 Instructions

1.9 Interpretation

1.10 Care Process

1.11 Example of the Instrument

1.12 Constraints

1.13 Issues

The UNSPSC code system has a great many products (including non-medical products). That is why a Dutch set and/or subcollection of this code system is required to indicate the type of product. We have currently opted to consider all values in the UNSPSC for documenting the type of medical aid product in the absence of such a set.

1.14 References

1. Kamerbrief over het voorstel voor een register van implantaten. [Online] Beschikbaar op: <http://www.rijksoverheid.nl/documenten-en-publicaties/kamerstukken/2012/11/20/kamerbrief-over-het-voorstel-voor-een-register-van-implantaten.html> [Geraadpleegd: 15 september 2014].

1.15 Functional Model

1.16 Traceability to other Standards

1.17 Disclaimer

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