

Health & Care Information Model: nl.zorg.MedicationAdministration-v3.0

Status:Final

Release:2016

Release status: Published

Managed by:

Better health
through better IT

Nictiz 

Content

1. nl.zorg.MedicationAdministration-v3.0	3
1.1 Revision History	3
1.2 Concept	3
1.3 Mindmap	3
1.4 Purpose	3
1.5 Patient Population	4
1.6 Evidence Base	4
1.7 Information Model	4
1.8 Example Instances	8
1.9 Instructions	8
1.10 Interpretation	8
1.11 Care Process	8
1.12 Example of the Instrument	9
1.13 Constraints	9
1.14 Issues	9
1.15 References	9
1.16 Functional Model	9
1.17 Traceability to other Standards	9
1.18 Disclaimer	9
1.19 Terms of Use	10
1.20 Copyrights	10

1. nl.zorg.MedicationAdministration-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	19-12-2013
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.9.3
DCM::KeywordList	Medicatie, Toediening
DCM::LifecycleStatus	Final
DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.zorg.MedicatieToediening
DCM::PublicationDate	1-5-2016
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	1-4-2015
DCM::Superseeds	nl.nfu.MedicatieToediening-v1.0
DCM::Version	3.0
HCIM::PublicationLanguage	EN

1.1 Revision History

Publicatieversie 1.0 (01-04-2015)

Bevat: ZIB-56, ZIB-308, ZIB-353.

Incl. algemene wijzigingsverzoeken:

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

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-453

1.2 Concept

Administration of medication describes the actual administration of the medication. This can be simply swallowing a tablet, applying ointment or paste, or an infusion that takes a considerable amount of time. The administration can refer to a medication prescription, but can also refer to home medication.

1.3 Mindmap

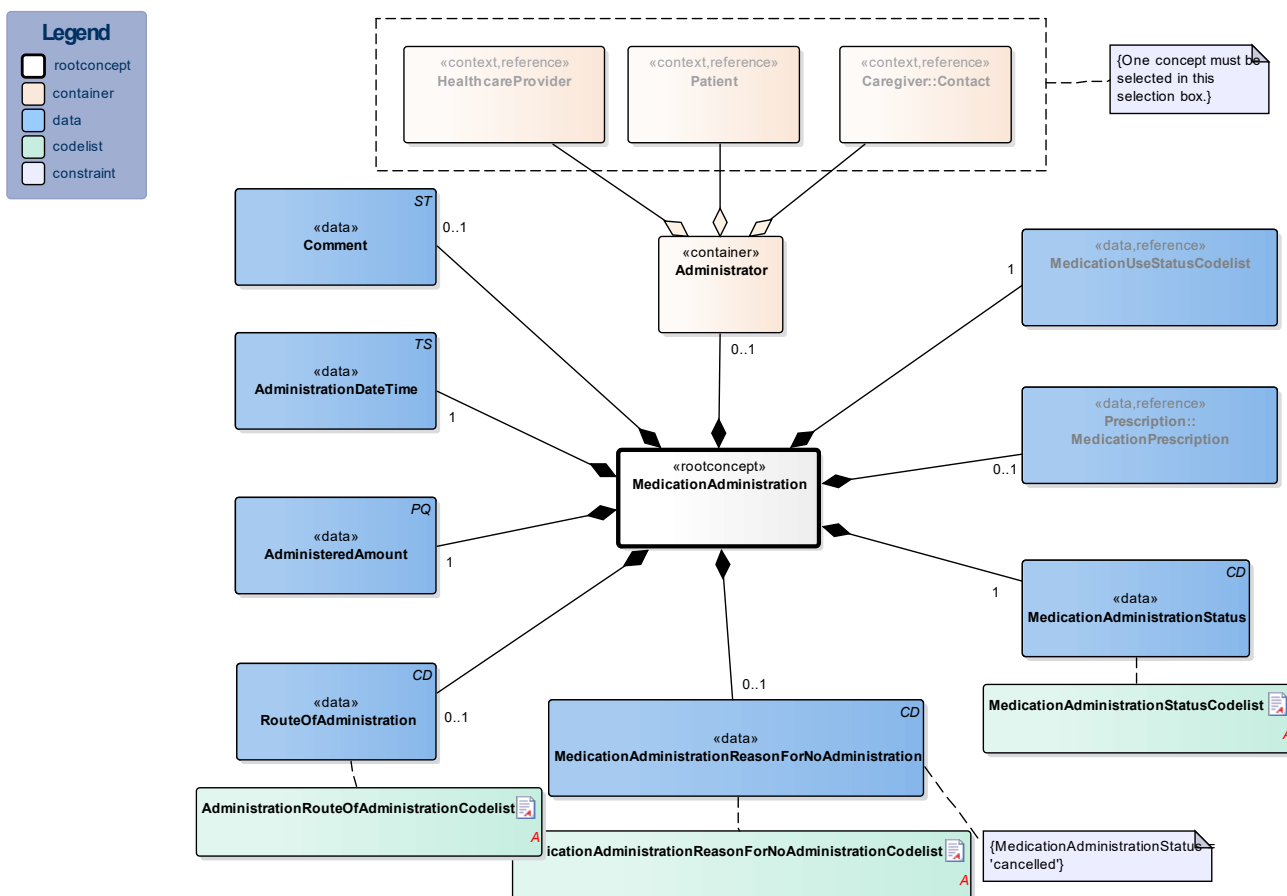
1.4 Purpose

To precisely plan the medication to be administered in a chain of collaborating healthcare professionals, it is often best to have information on the most recent administrations of medication, food or blood products.

1.5 Patient Population

1.6 Evidence Base

1.7 Information Model



«rootconcept»	MedicationAdministration
Definitie	Root concept of the MedicationAdministration information model. This root concept contains all data elements of the MedicationAdministration information model.
Datatype	
DCM::ConceptId	NL-CM:9.3.1
Opties	

«data»	MedicationUseStatusCodeList
Definitie	<p>The product taken or administered. This is usually medication. Food, blood products, aids and bandages do not strictly fall under the category of medication, but can be reported as well.</p> <p>In principle, this will be the prescribed product, but the administrator may substitute it by replacing the product with an equivalent product. For example: two 50mg tablets can be administered instead of one 100mg tablet.</p>

Datatype		
DCM::ConceptId	NL-CM:9.3.2	
DCM::ReferencedConceptId	NL-CM:9.5.6	Dit is een verwijzing naar concept Product in information model MedicatieVoorschrift.
Opties		

«data»	Prescription::MedicationPrescription	
Definitie	The agreement or order mandating the administration.	
Datatype		
DCM::ConceptId	NL-CM:9.3.3	
DCM::ReferencedConceptId	NL-CM:9.5.1	Dit is een verwijzing naar concept MedicatieVoorschrift in information model MedicatieVoorschrift.
Opties		

«data»	MedicationAdministrationStatus	
Definitie	<p>The status of the administration, as a description of the stage within the administration process. For indivisible products (such as tablets or suppositories) only the status codes 'completed' and 'cancelled' apply. For divisible products (such as infusions), administration can also be 'suspended' or 'aborted'.</p> <p>When documenting this, the following interpretations are used:</p> <ul style="list-style-type: none"> • Active: The product is administered. • Interrupted: Use has (temporarily) been interrupted, because of a side effect, for example. Later, the patient and/or doctor can decide whether or not to resume or discontinue use. • Discontinued: Administration has stopped. • Completed: The administration has now been completed (according to the plan, prescription or agreement). • Not started: The product was never administered. 	
Datatype	CD	
DCM::ConceptId	NL-CM:9.3.4	
DCM::ExampleValue	Actief	
DCM::ValueSet	MedicationAdministrationStatusCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.3.1
Opties		

«data»	MedicationAdministrationReasonForNoAdministration	
Definitie	Reason why the medication was not taken or administered. Here, you can choose to enter text or one of the codes.	
Datatype	CD	
DCM::ConceptId	NL-CM:9.3.5	
DCM::ValueSet	MedicationAdministrationReasonForNoAdministrationCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.3.2
Opties		

«data»	AdministrationDateTime	
Definitie	The date and time at which the medication was taken or administered.	

Datatype	TS
DCM::ConceptId	NL-CM:9.3.6
DCM::ExampleValue	09-07-2011 07:50
Opties	

«data»	AdministeredAmount
Definitie	Amount of the administered product.
Datatype	PQ
DCM::ConceptId	NL-CM:9.3.7
DCM::ExampleValue	2 st
Opties	

«data»	RouteOfAdministration
Definitie	The route through which the medication is administered (oral, nasal, intravenous,...).
Datatype	CD
DCM::ConceptId	NL-CM:9.3.8
DCM::ExampleValue	Oraal
DCM::ValueSet	AdministrationRouteOfAdministrationCodelist OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.3.3
Opties	

«container»	Administrator
Definitie	Container of the Administrator concept. This container contains all data elements of the Administrator concept. The concept describes the person who administered the product.
Datatype	
DCM::ConceptId	NL-CM:9.3.9
Opties	

«context»	HealthcareProvider
Definitie	The healthcare provider who administered the product.
Datatype	
DCM::ConceptId	NL-CM:9.3.10
DCM::ReferencedConceptId	NL-CM:17.1.1 Dit is een verwijzing naar concept Zorgverlener in information model Zorgverlener.
Opties	

«context»	Patient
Definitie	The patient who administered the product.
Datatype	
DCM::ConceptId	NL-CM:9.3.11
DCM::ReferencedConceptId	NL-CM:0.1.1 Dit is een verwijzing naar concept Patient in information model Patient.
Opties	

«context»	Caregiver::Contact
------------------	---------------------------

Definitie	The caregiver who administered the product.	
Datatype		
DCM::ConceptId	NL-CM:9.3.12	
DCM::ReferencedConceptId	NL-CM:3.1.1	Dit is een verwijzing naar concept Contactpersoon in information model Contactpersoon.
Opties		

«data»	Comment	
Definitie	Comments on administering the medication.	
Datatype	ST	
DCM::ConceptId	NL-CM:9.3.13	
DCM::ExampleValue	Toediening onderbroken wegens verstopt infuus.	
Opties		

«document»	AdministrationRouteOfAdministrationCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.3.3	
Opties		

ToedieningToedieningswegCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.3.3
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-Standaard Toedieningswegen	2.16.840.1.113883.2.4.4.9

«document»	MedicationAdministrationStatusCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.3.1	
Opties		

MedicatieToedieningStatusCodelist			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.3.1	
Concept Name	Concept Code	Code System Name	Code System OID	Description
Active	active	ActStatus	2.16.840.1.113883.5.14	Actief
Suspended	suspended	ActStatus	2.16.840.1.113883.5.14	Onderbroken
Aborted	aborted	ActStatus	2.16.840.1.113883.5.14	Afgebroken
Completed	completed	ActStatus	2.16.840.1.113883.5.14	Voltooid
Cancelled	cancelled	ActStatus	2.16.840.1.113883.5.14	Niet gestart

«document»	MedicationAdministrationReasonForNoAdministrationCod
-------------------	---

	elist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.3.2	
Opties		

MedicatieToedieningRedenVanNietToedienenCod **OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.3.2**
elijst

Concept Name	Concept Code	Code System Name	Code System OID	Description
Product discontinued	DISCONT	ActReason	2.16.840.1.113883.5.8	Product niet meer leverbaar
Patient not available	NON-AVAIL	ActReason	2.16.840.1.113883.5.8	Patiënt niet beschikbaar
Patient refuse	PREFUS	ActReason	2.16.840.1.113883.5.8	Patiënt heeft geweigerd
Unable to use	UNABLE	ActReason	2.16.840.1.113883.5.8	Toediening volgens voorschrift niet mogelijk
Order aborted	FOABORT	ActReason	2.16.840.1.113883.5.8	Voorschrift is gestopt
Forgotten to administer	FORGOT	NL-CM-CS	2.16.840.1.113883.2.4.3.11.60.40.4	Vergeten toe te dienen
Administration performer not available	APNA	NL-CM-CS	2.16.840.1.113883.2.4.3.11.60.40.4	Toediener niet aanwezig
No information	NI	NullFlavor	2.16.840.1.113883.5.1008	Geen informatie

1.8 Example Instances

ToedieningsProduct	Toedieningsweg	Toegediende Hoeveelheid	ToedieningsTijdstip	Medicatie ToedieningStatus	MedicatieToediening RedenVanNietToedienen	Voorschrift
ProductNaam						RedenVanVoorschrijven
						Probleem
Paracetamol tablet 500 mg	Oraal	1 tablet	3-5-2014 10:00	Het product is niet toegediend.	Patiënt heeft geweigerd	Pijn

ToedieningsProduct	Toedieningsweg	Toegediende Hoeveelheid	ToedieningsTijdstip	Medicatie ToedieningStatus	MedicatieToediening RedenVanNietToedienen	Voorschrift
ProductNaam						RedenVanVoorschrijven
						Probleem
Glucose/NaCl 2,5/0,45% infvltst zak 500ml	iv	500ml	3-5-2014 12:00	Onderbroken		Ondervulling

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. GROOT, E. (2011) *Dataset medicatieproces 2011*. [Online] Den Haag: Nictiz. Beschikbaar op: http://www.nictiz.nl/module/360/590/Dataset_Medicatieproces_2011.xlsx [Geraadpleegd: 23 juli 2014].
2. *HL7v3-implementatiehandleiding medicatieproces versie 6.1.0.0*. [Online] Den Haag: Nictiz. Beschikbaar op: http://www.nictiz.nl/uploaded/FILES/html_cabinet/live/Zorgtoepassing/Medicatieproces/AORTA_Mp_IH_Medicatieproces_HL7.htm [Geraadpleegd: 23 juli 2014].
3. *Dossier Medicatieoverzicht*. [Online] Beschikbaar op: [Oria.nl](http://www.oria.nl). [Geraadpleegd: 23 juli 2014].
4. *G-standaard documentatie*. [Online] Beschikbaar op: <http://www.z-index.nl/> [Geraadpleegd: 23 juli 2014].

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 collaboration with several different parties in healthcare. These parties asked Nictiz to manage good maintenance and development of the information models. Hereafter, these parties and Nictiz are referred to as the collaborating parties. The collaborating parties paid utmost attention to the reliability and topicality of the data in these Health and Care Information Models. Omissions and inaccuracies may however occur. The collaborating parties are not liable for any damages resulting from omissions or inaccuracies in the information provided, nor are they liable for damages resulting from problems caused by or inherent to distributing information on the internet, such as malfunctions, interruptions, errors or delays in information or services provide by the parties to you or by you to the parties via a website or via e-mail, or any other digital means. The collaborating parties will also not accept liability for any damages resulting from the use of data, advice or ideas provided by or on behalf of the parties by means of this Health and Care Information Model. The parties will not accept any liability for the content of information in this Health and Care Information Model to which or from which a hyperlink is referred. In the event of contradictions in mentioned Health and Care Information Model documents and files, the most recent and highest version of the listed order in the revisions will indicate the priority of the documents in question. If information included in the digital version of this Health and Care Information Model is also distributed in writing, the written version will be leading in case of textual differences. This will apply if both have the same version number and date. A definitive version has priority over a draft version. A revised version has priority over previous versions.

1.19 Terms of Use

The user may use the information in this Health and Care Information Model without limitations. The copyright provisions in the paragraph concerned apply to copying, distributing and passing on information from this Health and Care Information Model.

1.20 Copyrights

The user may copy, distribute and pass on the information in this Health and Care Information Model under the conditions that apply for Creative Commons license Attribution-NonCommercial-ShareAlike 3.0 Netherlands (CC BY-NC-SA-3.0). The content is available under Creative Commons Attribution-NonCommercial-ShareAlike 3.0 (see also <http://creativecommons.org/licenses/by-nc-sa/3.0/nl/>)