

# Health & Care Information Model: nl.nfu.MedicationAdministration-v1.0

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# Content

<b>1. nl.nfu.MedicationAdministration-v1.0</b>	<b>3</b>
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.nfu.MedicationAdministration-v1.0

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	NFU
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.nfu.MedicatieToediening
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	nl.nfu.OverdrachtMedicatie-v1.1 (2.16.840.1.113883.2.4.3.11.60.40.3.9.1)
DCM::Version	1.0
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.

## 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

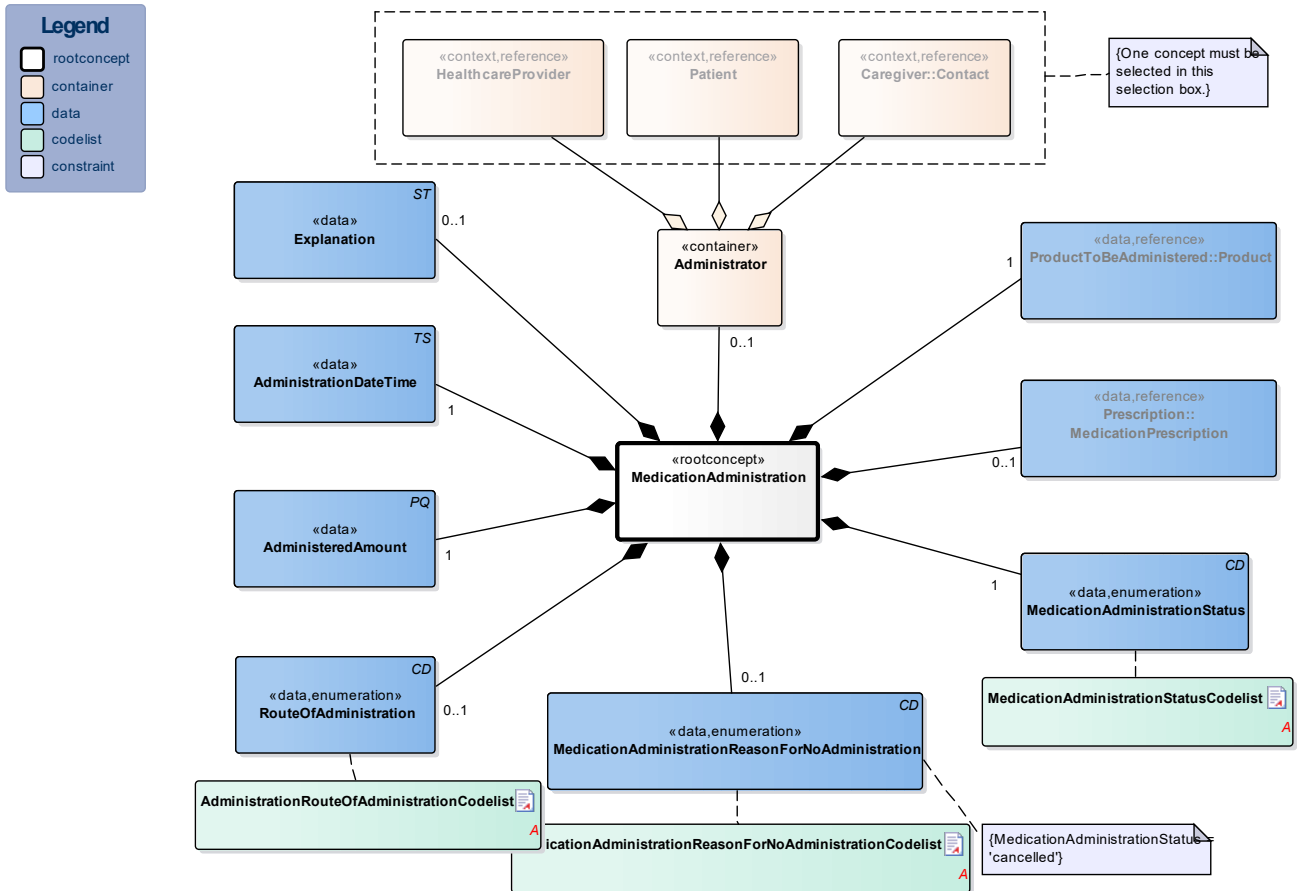
## 1.4 Purpose

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 building block. This root concept contains all data elements of the MedicationAdministration building block.
Datatype	
DCM::ConceptId	NL-CM:9.3.1
Opties	

«data»	ProductToBeAdministered::Product
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>

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

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

<b>«data»</b>	<b>MedicationAdministrationStatus</b>	
<b>Definitie</b>	<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"> <li>• Active: The product is administered.</li> <li>• 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.</li> <li>• Discontinued: Administration has stopped.</li> <li>• Completed: The administration has now been completed (according to the plan, prescription or agreement).</li> <li>• Not started: The product was never administered.</li> </ul>	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:9.3.4	
<b>DCM::ExampleValue</b>	Actief	
<b>DCM::ValueSet</b>	MedicationAdministrationStatusCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.3.1
<b>Opties</b>		

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

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

<b>Datatype</b>	TS	
<b>DCM::ConceptId</b>	NL-CM:9.3.6	
<b>DCM::ExampleValue</b>	09-07-2011 07:50	
<b>Opties</b>		

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

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

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

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

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

<b>«context»</b>	<b>Caregiver::Contact</b>	
<b>Definitie</b>	The caregiver who administered the product.	

<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.3.12	
<b>DCM::ReferencedConceptId</b>	NL-CM:3.1.1	Dit is een verwijzing naar concept Contactpersoon in information model Contactpersoon.
<b>Opties</b>		

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

<b>«document»</b>	<b>AdministrationRouteOfAdministrationCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.3.3	
<b>Opties</b>		

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

<b>«document»</b>	<b>MedicationAdministrationStatusCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.3.1	
<b>Opties</b>		

<b>MedicatieToedieningStatusCodelist</b>			<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.3.1</b>	
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

<b>«document»</b>	<b>MedicationAdministrationReasonForNoAdministrationCodelist</b>
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<b>Definitie</b>	
<b>Datatype</b>	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.3.2
<b>Opties</b>	

**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
<b>ProductNaam</b>						<b>RedenVanVoorschrijven</b>
						<b>Probleem</b>
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
<b>ProductNaam</b>						<b>RedenVanVoorschrijven</b>
						<b>Probleem</b>
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](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](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.orion.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

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