

Health & Care Information Model:

nl.zorg.MedicationAdministration2-v3.1

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1. nl.zorg.MedicationAdministration2-v3.1

DCM::CoderList	Projectgroep Medicatieproces
DCM::ContactInformation.Address	
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	
DCM::ContentAuthorList	Projectgroep Medicatieproces
DCM::CreationDate	1-2-2017
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.9.13
DCM::KeywordList	Medicatie, Toediening
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DCM::Version	3.1
HCIM::PublicationLanguage	EN

1.1 Revision History

Publicatieversie 1.0 (04-09-2017)

Publicatieversie 1.0.1 (31-12-2017)

Bevat: ZIB-618.

Publicatieversie 1.1 (31-01-2020)

Bevat: ZIB-812.

Publicatieversie 1.1.1 (01-09-2020)

Bevat: ZIB-911.

Publicatieversie 2.0 (10-06-2022)

Bevat: ZIB-1724, ZIB-1740.

Publicatieversie 2.0.1 (15-10-2023)

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Publicatieversie 3.0 (15-04-2024)

Bevat: ZIB-815, ZIB-1507, ZIB-2154, ZIB-2206, ZIB-2207, ZIB-2208, ZIB-2209, ZIB-2132, ZIB-2134, ZIB-2135.

Publicatieversie 3.1 (17-04-2026)

Bevat: ZIB-2798, ZIB-2856, ZIB-2802. ZIB-2805, ZIB-3140.

1.2 Concept

A medication administration is the individual administration of the medicinal product to the patient by the

administrator.

1.3 Mindmap

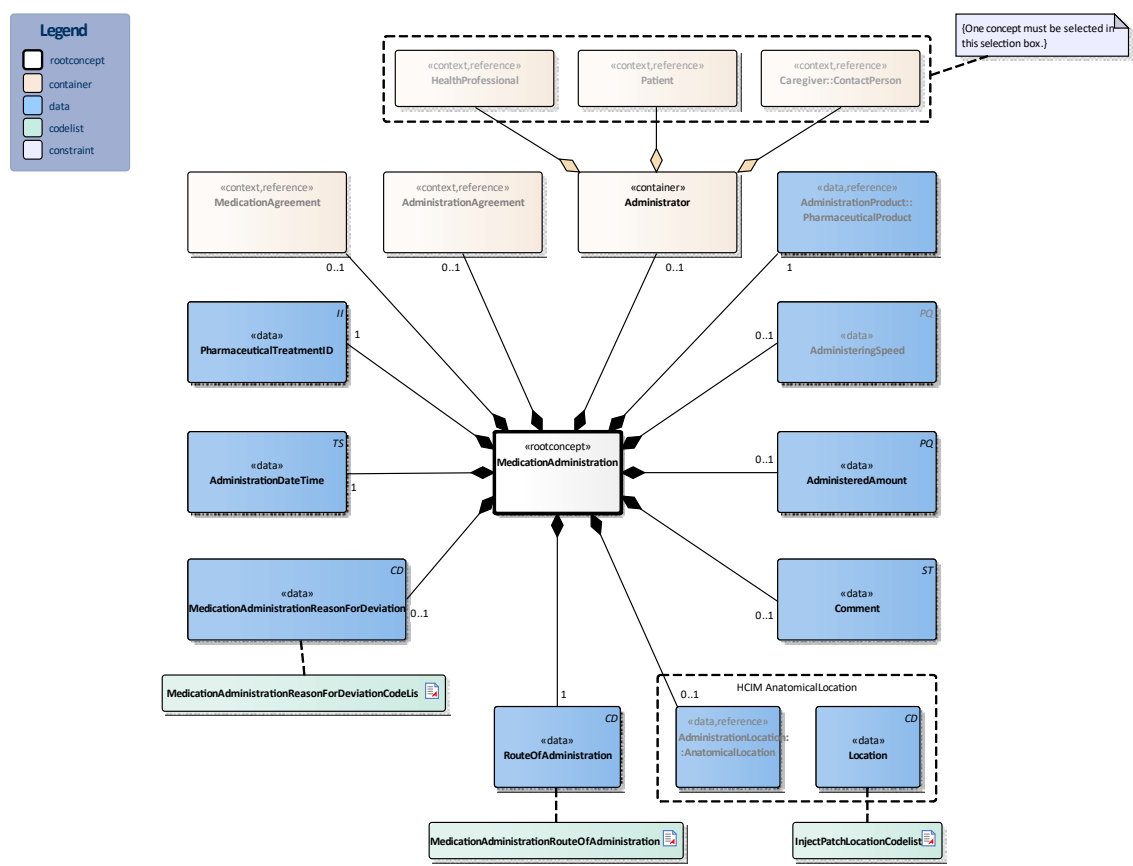
1.4 Purpose

The goal of administering the medication is to provide insight into the actual administered 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:9.13.20928	

DCM::DefinitionCode	SNOMED CT: 18629005 Administration of drug or medicament	
Opties		

«data»	PharmaceuticalTreatmentID	
Definitie	Identification of a medication treatment. A pharmaceutical treatment is defined as a treatment with a medicinal product. The PharmaceuticalTreatmentID is a technical identifier (worldwide and forever unique) that is required to record the relationship between a set of medication-related data elements. An identically defined PharmacotherapeuticTreatmentID has been added to all medication-related Health and Care Information Models (HCIMs): MedicationAgreement, MedicationAdministration2, AdministrationAgreement, MedicationUse2, MedicationDispense, and DispenseRequest.	
Datatype	II	
DCM::AssigningAuthority	Geen	OID: Geen
DCM::ConceptId	NL-CM:9.13.23382	
Opties		

«context»	MedicationAgreement	
Definitie	The medication agreement on which the medication dispense is based.	
Datatype		
DCM::ConceptId	NL-CM:9.13.23384	
DCM::ReferencedConceptId	NL-CM:9.6.9580	This is a reference to the rootconcept of information model MedicationAgreement.
Opties		

«context»	AdministrationAgreement	
Definitie	The administration agreement on which the medication dispense is based.	
Datatype		
DCM::ConceptId	NL-CM:9.13.23383	
DCM::ReferencedConceptId	NL-CM:9.8.20132	This is a reference to the rootconcept of information model AdministrationAgreement.
Opties		

«data»	AdministrationProduct::PharmaceuticalProduct	
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:9.13.20929	
DCM::ReferencedConceptId	NL-CM:9.7.19926	This is a reference to the rootconcept of information model PharmaceuticalProduct.
Opties		

«data»	AdministeringSpeed	
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Definitie	<p>The administering speed is used in slow administration of liquid. In practice, the measuring unit is almost always ml/hour. Entering an interval (such as 0-10 ml/hour) is also a commonly used option.</p> <p>For example, with an administering speed of 10ml/hour:</p> <ul style="list-style-type: none"> amount = 10, dose unit = ml time unit = hour <p>Optionally a translation to NHG table Gebruiksvoorschriften (Table 25) is also allowed.</p>	
Datatype	PQ	
DCM::ConceptId	NL-CM:9.13.23159	
DCM::ExampleValue	Aantal= 10 Gebruikseenheid= ml Tijdseenheid= uur	
Opties		

«data»	AdministrationDateTime	
Definitie	The date and time at which the medication was administered.	
Datatype	TS	
DCM::ConceptId	NL-CM:9.13.21193	
Opties		

«data»	AdministeredAmount	
Definitie	Amount of the administered product.	
Datatype	PQ	
DCM::ConceptId	NL-CM:9.13.21194	
Opties		

«data»	RouteOfAdministration	
Definitie	The route through which the medication is administered (oral, nasal, intravenous,...).	
Datatype	CD	
DCM::ConceptId	NL-CM:9.13.21195	
DCM::DefinitionCode	SNOMED CT: 410675002 Route of administration	
DCM::ValueSet	MedicationAdministrationRo uteOfAdministration	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.13.2
Opties		

«data»	AdministrationLocation::AnatomicalLocation	
Definitie	Location on or in the body where the medication was administered. Usually used to indicate the location at which a patient was administered an injection or patch was applied. The value list PrikPlakLocationCodelijst list can serve as a starting point for coding these concepts. If both the anatomical location and administration route are filled, they should be aligned.	
Datatype		
DCM::ConceptId	NL-CM:9.13.23381	
DCM::ReferencedConceptId	NL-CM:20.7.1	This is a reference to the rootconcept of information model AnatomicalLocation.
Opties		

«data»	Location	
Definitie	Location from AnatomicalLocation.	

Datatype	CD	
DCM::ConceptId	NL-CM:20.7.4	
DCM::ValueSet	InjectPatchLocationCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.13.4
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. This is a professional authorised administrator, the patient themselves or the caregiver, for example.	
Datatype		
DCM::ConceptId	NL-CM:9.13.21196	
Opties		

«context»	Patient	
Definitie	If the patient administered the medication themselves, indicate that here. If the medication is administered by a health professional or caregiver/family member/etc., the health professional is entered in the 'HealthProfessional' element or the caregiver/family member/etc. is entered in the 'Contact' element respectively.	
Datatype		
DCM::ConceptId	NL-CM:9.13.23380	
DCM::ReferencedConceptId	NL-CM:0.1.1	This is a reference to the rootconcept of information model Patient.
Opties		

«context»	HealthProfessional	
Definitie	The concept describes the person who administered the product. This is a professional authorised administrator.	
Datatype		
DCM::ConceptId	NL-CM:9.13.23172	
DCM::ReferencedConceptId	NL-CM:17.1.1	This is a reference to the rootconcept of information model HealthProfessional.
Opties		

«context»	Caregiver::ContactPerson	
Definitie	Information on the patient's personal relative or contact that administered the medication.	
Datatype		
DCM::ConceptId	NL-CM:9.13.23355	
DCM::ReferencedConceptId	NL-CM:3.1.1	This is a reference to the rootconcept of information model ContactPerson.
Opties		

«data»	MedicationAdministrationReasonForDeviation	
Definitie	Reason why the medication was not taken or administered or was taken or administered differently. Here, you can choose to enter text or one of the codes.	
Datatype	CD	
DCM::ConceptId	NL-CM:9.13.23166	

DCM::DefinitionCode	SNOMED CT: 153631000146105 Reason for deviation in administration of drug or medicament	
DCM::ValueSet	MedicationAdministrationReasonForDeviationCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.13.3
Opties		

«data»	Comment	
Definitie	Comments on administering the medication.	
Datatype	ST	
DCM::ConceptId	NL-CM:9.13.21337	
DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	
Opties		

«document»	InjectPatchLocationCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.13.4	
DCM::ValueSetIncludeOTH	True	
DCM::ValueSetStatus	Active	
HCIM::ValueSetLanguage	--	
Opties		

PrikPlakLocatieCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.13.4	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Structure of upper part of lumbar region of abdominal wall	160531000146108	SNOMED CT	2.16.840.1.113883.6.96	structuur van bovenste gedeelte van lumbale regio van wand van abdomen
Structure of lower part of lumbar region of abdominal wall	160481000146106	SNOMED CT	2.16.840.1.113883.6.96	structuur van onderste gedeelte van lumbale regio van wand van abdomen
Structure of right part of supraumbilical region	160501000146103	SNOMED CT	2.16.840.1.113883.6.96	structuur van rechter gedeelte van supra-umbilicale regio
Structure of left part of infra-umbilical region	160441000146104	SNOMED CT	2.16.840.1.113883.6.96	structuur van linker gedeelte van infra-umbilicale regio
Structure of left part of supraumbilical region	160451000146101	SNOMED CT	2.16.840.1.113883.6.96	structuur van linker gedeelte van supra-umbilicale regio
Structure of right part of infra-umbilical region	160491000146108	SNOMED CT	2.16.840.1.113883.6.96	structuur van rechter gedeelte van infra-umbilicale regio
Structure of soft tissue of upper outer quadrant of anterior surface of thigh	160521000146106	SNOMED CT	2.16.840.1.113883.6.96	structuur van weke delen van laterale bovenkwadrant van anterieur oppervlak van bovenbeen

Structure of soft tissue of upper inner quadrant of anterior surface of thigh	160511000146101	SNOMED CT	2.16.840.1.113883.6.96	structuur van weke delen van mediale bovenkwadrant van anterieur oppervlak van bovenbeen
Structure of soft tissue of lower outer quadrant of anterior surface of thigh	160471000146109	SNOMED CT	2.16.840.1.113883.6.96	structuur van weke delen van laterale onderkwadrant van anterieur oppervlak van bovenbeen
Structure of soft tissue of lower inner quadrant of anterior surface of thigh	160461000146103	SNOMED CT	2.16.840.1.113883.6.96	structuur van weke delen van mediale onderkwadrant van anterieur oppervlak van bovenbeen
Structure of upper outer quadrant of buttock	703712000	SNOMED CT	2.16.840.1.113883.6.96	structuur van laterale bovenkwadrant van regio glutealis
Structure of upper inner quadrant of buttock	160541000146100	SNOMED CT	2.16.840.1.113883.6.96	structuur van mediale bovenkwadrant van regio glutealis
Structure of lower outer quadrant of buttock	160431000146107	SNOMED CT	2.16.840.1.113883.6.96	structuur van laterale onderkwadrant van regio glutealis
Structure of lower inner quadrant of buttock	160421000146105	SNOMED CT	2.16.840.1.113883.6.96	structuur van mediale onderkwadrant van regio glutealis
Skin structure of clavicular region	91009005	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van regio clavicularis
Skin structure of left part of back of upper thoracic region	160371000146104	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van linker gedeelte van achterzijde van bovenste gedeelte van thoracale regio
Skin structure left part of back of upper thoracic region	160391000146100	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van rechter gedeelte van achterzijde van bovenste gedeelte van thoracale regio
Skin structure of left part of back of lower thoracic region	160361000146105	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van linker gedeelte van achterzijde van onderste gedeelte van thoracale regio
Skin structure of right part of back of lower thoracic region	160381000146102	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van rechter gedeelte van achterzijde van onderste gedeelte van thoracale regio
Skin structure of left part of lumbosacral region	160401000146102	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van linker gedeelte van lumbosacrale regio
Skin structure of right part of lumbosacral region	160411000146100	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van rechter gedeelte van lumbosacrale regio
Skin structure of anterior surface of upper arm	45981001	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van anterieur oppervlak van bovenarm
Structure of posterior surface of upper arm	15703000	SNOMED CT	2.16.840.1.113883.6.96	structuur van posterieur oppervlak van

				bovenarm
Structure of deltoid muscle	35259002	SNOMED CT	2.16.840.1.113883.6.96	structuur van musculus deltoideus
Skin structure of right upper quadrant of anterior surface of thorax	160561000146104	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van rechter bovenkwadrant van voorzijde van thorax
Skin structure of left upper quadrant of anterior surface of thorax	160551000146102	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van linker bovenkwadrant van voorzijde van thorax
Skin structure of right lower quadrant of anterior surface of thorax	160581000146107	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van rechter onderkwadrant van voorzijde van thorax
Skin structure of left lower quadrant of anterior surface of thorax	160571000146105	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van linker onderkwadrant van voorzijde van thorax
Skin structure of scapular region of back	45980000	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van regio scapularis
Skin structure of postauricular region	24483006	SNOMED CT	2.16.840.1.113883.6.96	structuur van huid van postauriculaire regio

«document»	MedicationAdministrationRouteOfAdministration	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.13.2	
DCM::ValueSetInclude OTH	True	
DCM::ValueSetStatus	Active	
HCIM::ValueSetLanguage	--	
Opties		
MedicatieToedieningToedieningsweg Codelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.13.2
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-Standaard Toedieningswegen	2.16.840.1.113883.2.4.4.9

«document»	MedicationAdministrationReasonForDeviationCodeLis	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.13.3	
DCM::ValueSetIncludeOTH	True	
DCM::ValueSetStatus	Active	
HCIM::ValueSetLanguage	EN	
Opties		

Medicatie toediening Reden Van Afwijken Codelijst				OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.13.3
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Onvoldoende medicatie op voorraad	705046008	SNOMED CT	2.16.840.1.113883.6.96	Product niet meer leverbaar
Behandeling met geneesmiddel stopgezet	274512008	SNOMED CT	2.16.840.1.113883.6.96	Medicatieafpraak is gestopt
Medicatie uitgespuugd door patiënt	152741000146103	SNOMED CT	2.16.840.1.113883.6.96	Uitgespuugd door patiënt
Zorgverlener niet beschikbaar om medicatie toe te dienen	153221000146105	SNOMED CT	2.16.840.1.113883.6.96	Toediener niet aanwezig
Zorgverlener vergeten medicatie toe te dienen	153211000146100	SNOMED CT	2.16.840.1.113883.6.96	Vergeten toe te dienen
Niet in staat om medicatie te gebruiken	408366001	SNOMED CT	2.16.840.1.113883.6.96	Toediening volgens voorschrift niet mogelijk
Toediening van medicatie geweigerd	406149000	SNOMED CT	2.16.840.1.113883.6.96	Patiënt heeft geweigerd
Zorgafnemer niet beschikbaar om medicatie in ontvangst te nemen	153241000146104	SNOMED CT	2.16.840.1.113883.6.96	Patiënt niet beschikbaar
Foutieve registratie van medicatie	159691000146109	SNOMED CT	2.16.840.1.113883.6.96	Foutieve registratie van medicatie

	Legend
Definitie	
Datatype	
Opties	

	Constraint
Definitie	One concept must be selected in this selection box.
Datatype	
Opties	

1.8 Example Instances

MedicatieToedieningsDatumTijd	Toedieningsproduct	MedicatieToedieningsStatus	Toedieningsweg	ToegediendeHoeveelheid	AfgesprokenDatumTijd	MedicatieToedieningsRedenVanAfwijken	MedicatieAfspraak
	ProductCode						Gebruiksaanwijzing
							Doseerwijze Doseering Keerdosis
3-6-2014 16:19:07	Pantoprazol mylan tablet msr 20mg	Gereed	Oraal	1 stuk			
11-9-2012 17:21:00	Bumetanide pch tablet 2 mg	Afgebroken	Oraal	1 stuk		Patiënt heeft geweigerd	2 stuks
19-9-2014 14:12:11	Novorapid Flexpen Injvlst 100e/MI Pen 3ml	Uitgesteld	Subcutaan	22 eenheden	19-9-2014 9:00:00	Vergeten toe te dienen	22 elementen

1.9 Instructions

The rules about linking an existing PharmaceuticalTreatmentID or to issue a new PharmaceuticalTreatmentID have been determined by the Medication Process information standard established by Nictiz.

1.10 Interpretation

1.11 Care Process

1.12 Example of the Instrument

1.13 Constraints

1.14 Issues

1.15 References

1.16 Functional Model

1.17 Traceability to other Standards

1.18 Disclaimer

The Health and Care Information Models (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

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