

Health & Care Information Model:

nl.zorg.MedicationAdministration2-v2.0.1

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1. nl.zorg.MedicationAdministration2-v2.0.1

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::ModelerList	Architectuurgroep Registratie aan de Bron
DCM::Name	nl.zorg.MedicatieToediening2
DCM::PublicationDate	15-10-2023
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DCM::RevisionDate	18-07-2023
DCM::Supersedes	nl.zorg.MedicatieToediening2-v2.0
DCM::Version	2.0.1
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)

Bevat: ZIB-1896, ZIB-1974.

1.2 Concept

Medication administration is the registration of the individual administrations of the medicine on the patient by the administrator (e.g. a nurse or patient themselves), in relation to the entered agreements.

1.3 Mindmap

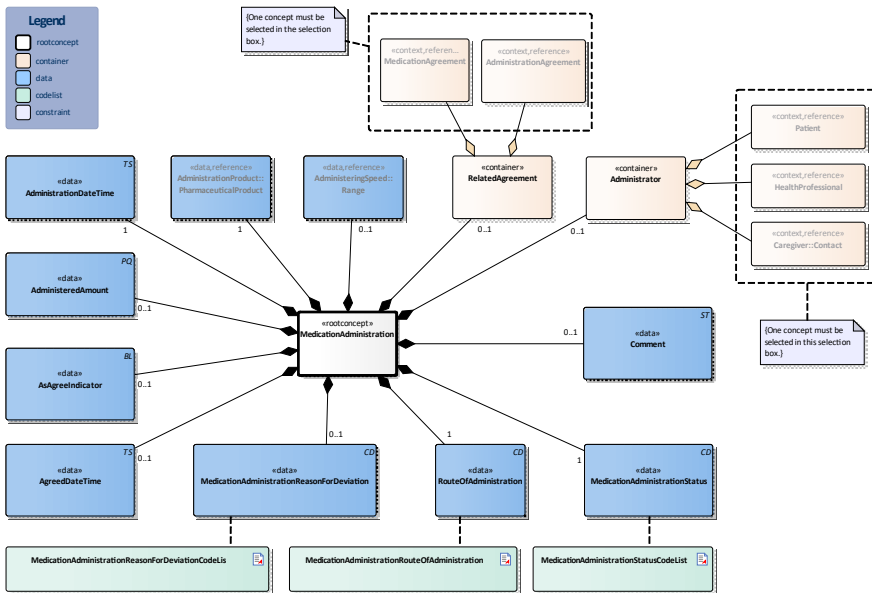
1.4 Purpose

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»	AdministrationProduct::PharmaceuticalProduct	
Definitie	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.	

	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.	
Datatype		
DCM::ConceptId	NL-CM:9.13.20929	
DCM::ReferencedConceptId	NL-CM:9.7.1	This is a reference to the rootconcept of information model PharmaceuticalProduct.
Opties		

«data»	AdministeringSpeed::Range	
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		
DCM::ConceptId	NL-CM:9.13.23159	
DCM::ExampleValue	Aantal= 10 Gebruikseenheid= ml Tijdseenheid= uur	
DCM::ReferencedConceptId	NL-CM:20.1.1	This is a reference to the rootconcept of partial information model Range.
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»	AgreedDateTime	
Definitie	Date and time in the medication or administration agreement to which this administration pertains. Since multiple times can be indicated in one medication/administration agreement, this can be used to identify the agreed time in the event of e.g. early administration or a late administration.	
Datatype	TS	
DCM::ConceptId	NL-CM:9.13.23171	
Opties		

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

«data»	AsAgreeIndicator	
Definitie	Is the medicine used as outlined in the medication agreement?	
Datatype	BL	

DCM::ConceptId	NL-CM:9.13.23167	
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	MedicationAdministrationRouteOfAdministration	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.13.2
Opties		

«container»	RelatedAgreement	
Definitie	Medication or administration agreement on which this administration is based.	
Datatype		
DCM::ConceptId	NL-CM:9.13.23169	
Opties		

«context»	MedicationAgreement	
Definitie	Medication agreement on which this administration is based.	
Datatype		
DCM::ConceptId	NL-CM:9.13.23170	
DCM::ReferencedConceptId	NL-CM:9.6.1	This is a reference to the rootconcept of information model MedicationAgreement.
Opties		

«context»	AdministrationAgreement	
Definitie	Administration agreement on which this administration is based.	
Datatype		
DCM::ConceptId	NL-CM:9.13.23237	
DCM::ReferencedConceptId	NL-CM:9.8.1	This is a reference to the rootconcept of information model AdministrationAgreement.
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::Contact	
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	MedicationAdministrationReasonForDeviationCodeLis	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.13.3
Opties		

«data»	MedicationAdministrationStatus	
Definitie	<p>The status of the administration, as a description of the stage within the administering process. Only the status codes 'completed' and 'cancelled' apply to indivisible products (such as tablets or suppositories). For divisible products (such as infusions), doses 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. • Suspended: 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. • Aborted: Administration has stopped. • Completed: Administration has been completed. • Cancelled: The product was never administered. 	
Datatype	CD	
DCM::ConceptId	NL-CM:9.13.21191	

DCM::ValueSet	MedicationAdministrationStatusCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.13.1
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»	MedicationAdministrationRouteOfAdministration
Definitie	
Datatype	
DCM::ValueSetBinding	Extensible
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.13.2
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»	MedicationAdministrationStatusCodeList
Definitie	
Datatype	
DCM::ValueSetBinding	Extensible
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.13.1
HCIM::ValueSetLanguage	EN
Opties	

MedicatieToedieningStatusCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.13.1	
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»	MedicationAdministrationReasonForDeviationCodeList
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Definitie	
Datatype	
DCM::ValueSetBinding	Extensible
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.13.3
HCIM::ValueSetLanguage	EN
Opties	

MedicatieoedieningRedenVanAfwijkenCodelijst				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
Product discontinued	DISCONT	ActReason	2.16.840.1.113883.5.8	Product niet meer leverbaar [DEPRECATED]
Patient not available	NON-AVAIL	ActReason	2.16.840.1.113883.5.8	Patiënt niet beschikbaar [DEPRECATED]
Patient refuse	PREFUS	ActReason	2.16.840.1.113883.5.8	Patiënt heeft geweigerd [DEPRECATED]
Unable to use	UNABLE	ActReason	2.16.840.1.113883.5.8	Toediening volgens voorschrift niet mogelijk [DEPRECATED]
Order aborted	FOABORT	ActReason	2.16.840.1.113883.5.8	Medicatieafpraak is gestopt [DEPRECATED]
Forgotten to administer	FORGOT	NL-CM-CS	2.16.840.1.113883.2.4.3.11.60.40.4	Vergeeten toe te dienen [DEPRECATED]
Administration performer not available	APNA	NL-CM-CS	2.16.840.1.113883.2.4.3.11.60.40.4	Toediener niet aanwezig [DEPRECATED]
Deficit of medication supply	705046008	SNOMED CT	2.16.840.1.113883.6.96	Product niet meer leverbaar
Medication discontinued	274512008	SNOMED CT	2.16.840.1.113883.6.96	Medicatieafpraak is gestopt
Drug spat out by patient	152741000146103	SNOMED CT	2.16.840.1.113883.6.96	Uitgespuugd door patiënt
Health care professional not available to administer drug	153221000146105	SNOMED CT	2.16.840.1.113883.6.96	Toediener niet aanwezig
Health care professional forgot to administer drug	153211000146100	SNOMED CT	2.16.840.1.113883.6.96	Vergeeten toe te dienen
Unable to use medication	408366001	SNOMED CT	2.16.840.1.113883.6.96	Toediening volgens voorschrift niet mogelijk
Medication declined	406149000	SNOMED CT	2.16.840.1.113883.6.96	Patiënt heeft geweigerd
Patient not available to receive drug	153241000146104	SNOMED CT	2.16.840.1.113883.6.96	Patiënt niet beschikbaar

Legend	
Definitie	
Datatype	
Opties	

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

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

1.8 Example Instances

MedicatieToedieningsDatumTijd	Toedieningsproduct	Afwijkende Toediening	MedicatieToedieningsStatus	Toedieningsweg	Toegedende Hoeveelheid	Afgesproken DatumTijd	MedicatieToedieningsRedenVanAfwijken	MedicatieAfspraak
	ProductCode							Gebruiksaanwijzing Doseerinstructie Doosering Keerdosis
3-6-2014 16:19:07	Pantoprazol mylan tablet.msr 20mg	Nee	Gereed	Oraal	1 stuk			
11-9-2012 17:21:00	Bumetanide pch tablet 2 mg	Ja	Afgebroken	Oraal	1 stuk		Patiënt heeft geweigerd	2 stuks
19-9-2014 14:12:11	Novorapid Flexpen Injvist 100e/MI Pen 3ml	Ja	Uitgesteld	Subcutaan	22 eenheden	19-9-2014 9:00:00	Vergeten toe te dienen	22 elementen

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

1.16 Functional Model

1.17 Traceability to other Standards

1.18 Disclaimer

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