

# Health & Care Information Model: nl.zorg.MedicationAgreement-v1.0.1

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# Content

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# 1. nl.zorg.MedicationAgreement-v1.0.1

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	2.16.840.1.113883.2.4.3.11.60.40.3.9.6
DCM::KeywordList	Medicatie, Afspraak
DCM::LifecycleStatus	Final
DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.zorg.Medicatieafspraak
DCM::PublicationDate	01-10-2018
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DCM::RevisionDate	31-12-2017
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DCM::Version	1.0.1
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (04-09-2017)

Publicatieversie 1.0.1 (31-12-2017)

Bevat: ZIB-618, ZIB-643.

## 1.2 Concept

A medication agreement is a prescriber's proposal for a patient to use medication. An agreement to discontinue the use of medication is also a medication agreement.

## 1.3 Mindmap

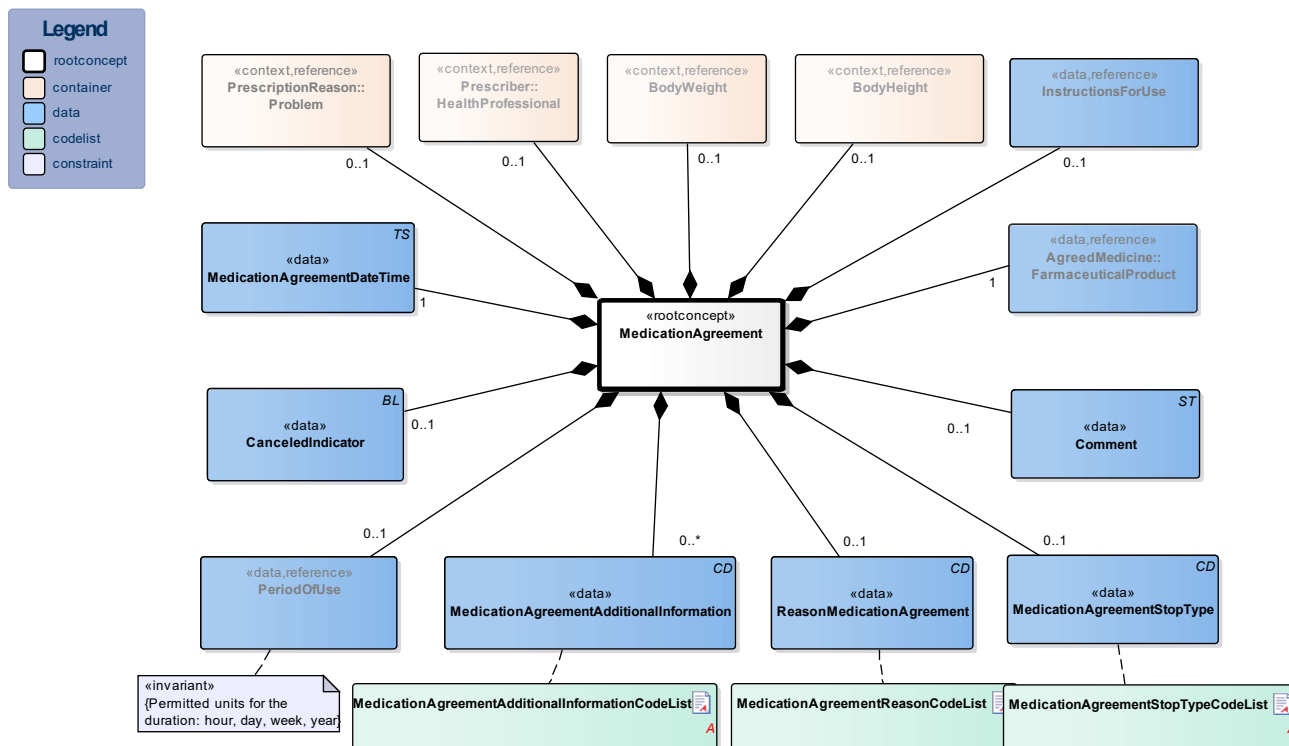
## 1.4 Purpose

The goal of the medication agreement is to provide insight into the agreements reached between the prescriber and the patient on the use of medication.

## 1.5 Patient Population

## 1.6 Evidence Base

## 1.7 Information Model



«rootconcept»	MedicationAgreement
<b>Definitie</b>	Root concept of the MedicationAgreement information model. This root concept contains all data elements of the MedicationAgreement information model.
<b>Datatype</b>	
<b>DCM::ConceptId</b>	NL-CM:9.6.9580
<b>Opties</b>	

«context»	Prescriber::HealthProfessional	
<b>Definitie</b>	The health professional that entered the medication agreement with the patient.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.6.1030	
<b>DCM::ReferencedConceptId</b>	NL-CM:17.1.1	This is a reference to the rootconcept of information model HealthProfessional.
<b>Opties</b>		

«context»	PrescriptionReason::Problem
<b>Definitie</b>	The medical reason for the prescription or for use of the medication. This can be used to enter a medical indication which was the direct cause for prescription or for use of the medication in question.  It can concern every type of problem (or condition) of the patient, almost all diagnoses, complaints or symptoms.

	Please note: The BST401T file of the G standard contains a “special reference” to indicate that “exchange of the reason for prescription is essential”.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.6.23133	
<b>DCM::ReferencedConceptId</b>	NL-CM:5.1.1	This is a reference to the rootconcept of information model Problem.
<b>Opties</b>		

<b>«context»</b>	<b>BodyWeight</b>	
<b>Definitie</b>	Weight the dose is based on, relevant to this agreement.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.6.23028	
<b>DCM::ReferencedConceptId</b>	NL-CM:12.1.1	This is a reference to the rootconcept of information model BodyWeight.
<b>Opties</b>		

<b>«context»</b>	<b>BodyHeight</b>	
<b>Definitie</b>	Height the dose is based on, relevant to this agreement.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.6.23023	
<b>DCM::ReferencedConceptId</b>	NL-CM:12.2.1	This is a reference to the rootconcept of information model BodyHeight.
<b>Opties</b>		

<b>«data»</b>	<b>AgreedMedicine::FarmaceuticaalProduct</b>	
<b>Definitie</b>	The medicine agreed upon to be used.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.6.19925	
<b>DCM::ReferencedConceptId</b>	NL-CM:9.7.19926	This is a reference to the rootconcept of the partial information model Product.
<b>Opties</b>		

<b>«data»</b>	<b>InstructionsForUse</b>	
<b>Definitie</b>	Instructions for the use of the medication, e.g. dose and route of administration.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.6.23240	
<b>DCM::ReferencedConceptId</b>	NL-CM:9.12.22504	This is a reference to the rootconcept of the partial information model InstructionsForUse.
<b>Opties</b>		

<b>«data»</b>	<b>MedicationAgreementDateTime</b>	
<b>Definitie</b>	The time at which the agreement was made. Appointment date + time are required (order of the appointments must be clear in cases with multiple appointments on one day)	
<b>Datatype</b>	TS	

DCM::ConceptId	NL-CM:9.6.19757	
DCM::ExampleValue	27-01-2015	
Opties		

«data»	PeriodOfUse	
Definitie	<p>Start date: This is the time at which the agreement was to take effect (or took effect or will take effect). This is the time at which the instructions for use in this agreement start. In the case of an agreement to discontinue use, this is the start date of the original medication agreement. The end date indicates from when the medication is to be discontinued.</p> <p><b>Duration:</b> The intended duration of use. E.g. 5 days or 8 weeks. It is not allowed to indicate the duration in months, because different months have a variable duration in days.</p> <p><b>End date:</b> The time at which the period of use ends (or ended or will end). In the case of an agreement to discontinue use, this is the time at which the medication is to be discontinued. To avoid confusion between 'to' and 'up to', the submission of time is always mandatory for the end date.</p> <p>With medication for an indefinite period only a start date is indicated.</p>	
Datatype		
DCM::ConceptId	NL-CM:9.6.19936	
DCM::ExampleValue	12-03-2012 16:00	
DCM::ReferencedConceptId	NL-CM:20.3.1	This is a reference to the rootconcept of partial information model TimeInterval.
Opties		

«data»	CanceledIndicator	
Definitie	In the event of an error correction of the medication agreement, this indicator is to be put on for the incorrect agreement.	
Datatype	BL	
DCM::ConceptId	NL-CM:9.6.23033	
Opties		

«data»	MedicationAgreementStopType	
Definitie	Stop type, the manner in which this medication is discontinued (temporary or definitive).	
Datatype	CD	
DCM::ConceptId	NL-CM:9.6.19954	
DCM::ValueSet	MedicationAgreementStopTypeCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.1
Opties		

«data»	ReasonMedicationAgreement	
Definitie	Reason for this agreement. This can be the reason to start, change or stop the medication treatment.	
Datatype	CD	
DCM::ConceptId	NL-CM:9.6.22094	
DCM::ValueSet	MedicationAgreementReasonCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.2

<b>Opties</b>	
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<b>«data»</b>		<b>MedicationAgreementAdditionalInformation</b>	
<b>Definitie</b>	Additional information includes details on the structure of the agreement made that are relevant for pharmacovigilance and fulfillment by the pharmacist. This can be used e.g. to indicate that there was a conscious decision to deviate from the norm or that the agreement is to be structured in a certain way. See also the Instructions section for more information about use of the element.		
<b>Datatype</b>	CD		
<b>DCM::ConceptId</b>	NL-CM:9.6.23283		
<b>DCM::ValueSet</b>	MedicationAgreementAdditionalInformationCodeList	OID:	2.16.840.1.113883.2.4.3.11.60.40.2.9.6.3
<b>Opties</b>			

<b>«data»</b>		<b>Comment</b>	
<b>Definitie</b>	Comments regarding to the medication agreement. For example: in consultation with the medical specialist.		
<b>Datatype</b>	ST		
<b>DCM::ConceptId</b>	NL-CM:9.6.22273		
<b>DCM::DefinitionCode</b>	LOINC: 48767-8 Annotation comment		
<b>Opties</b>			

<b>«document»</b>		<b>MedicationAgreementAdditionalInformationCodeList</b>	
<b>Definitie</b>			
<b>Datatype</b>			
<b>DCM::ValueSetBinding</b>	Extensible		
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.6.3		
<b>Opties</b>			

<b>MedicatieafsprakenAanvullendeInformatieCodeList</b>			<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.3</b>	
<b>Concept Name</b>	<b>Concept Code</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>	<b>Description</b>
Bewust hoge dosering	1	Voorlopige G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.3.2050	Bewust hoge dosering
Bewust lage dosering	2	Voorlopige G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.3.2050	Bewust lage dosering
Bewust afwijkende toedieningsweg	3	Voorlopige G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.3.2050	Bewust afwijkende toedieningsweg
Medische noodzaak	4	Voorlopige G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.3.2050	Medische noodzaak
Profylaxe	5	Voorlopige G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.3.2050	Profylaxe
Wijziging in GDS per direct	6	Voorlopige G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.3.2050	Wijziging in GDS per direct
Wijziging in GDS per rolwissel	7	Voorlopige G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.3.2050	Wijziging in GDS per rolwissel

<b>«document»</b>	<b>MedicationAgreementReasonCodeList</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Extensible	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.6.2	
<b>Opties</b>		

<b>RedenMedicatieafpraakCodelijst</b>	<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.2</b>
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Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Medication commenced (finding)	266709005	SNOMED CT	2.16.840.1.113883.6.96	Starten medicamenteuze behandeling
Administration of drug or medicament contraindicated (situation)	438833006	SNOMED CT	2.16.840.1.113883.6.96	Contra-indicatie
Drug interaction (disorder)	79899007	SNOMED CT	2.16.840.1.113883.6.96	Interactie
Hypersensitivity condition (disorder)	473010000	SNOMED CT	2.16.840.1.113883.6.96	Overgevoeligheid
Geen of onvoldoende effect	5	Medicatieafpraak Reden	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.2	Geen of onvoldoende effect
Te sterk effect	6	Medicatieafpraak Reden	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.2	Te sterk effect
(Mogelijke) bijwerking	7	Medicatieafpraak Reden	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.2	(Mogelijke) bijwerking
Toedieningsweg voldoet niet	8	Medicatieafpraak Reden	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.2	Toedieningsweg voldoet niet
Indicatie vervallen	9	Medicatieafpraak Reden	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.2	Indicatie vervallen
Beleidswijziging	10	Medicatieafpraak Reden	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.2	Beleidswijziging
Admission to establishment (procedure)	305335007	SNOMED CT	2.16.840.1.113883.6.96	Opname
Wens patiënt	12	Medicatieafpraak Reden	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.2	Wens patiënt
Volgens afspraak	13	Medicatieafpraak Reden	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.2	Volgens afspraak
Hervatten beleid vorige voorschrijver	14	Medicatieafpraak Reden	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.2	Hervatten beleid vorige voorschrijver



Geplande procedure	15	Medicatieafspraken Reden	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.2	Procedure waaronder ingreep, interferentie met gepland labonderzoek, etc.
Overig	OTH	NullFlavour	2.16.840.1.113883.5.1008	Overig

«document»		MedicationAgreementStopTypeCodeList	
Definitie			
Datatype			
DCM::ValueSetBinding	Extensible		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.6.1		
Opties			

MedicatieafsprakenStopTypeCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.1	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Tijdelijk	1	StopType	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.1	Tijdelijke onderbreking van medicamenteuze behandeling (bijvoorbeeld tijdelijk stoppen gebruik vanwege operatie).
Definitief	2	StopType	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.1	Het staken van een bestaande medicamenteuze behandeling.

## 1.8 Example Instances

MedicatieAfspraak DatumTijd	Gebruiksperiode			Afgesproken geneesmiddel	Voorschrijver	Geannuleerd Indicator	MedicatieAfspraak Stoptype	MedicatieAfspraak .Reden
	Ingangsdatum	Einddatum	Duur	FarmaceutischProduct	Zorgverlener			
18-9-2016 18:00:00	08-09-16	18-09-16		Lisinopril tablet 10mg	D. Bakker	Nee	Definitief	Geen of onvoldoende effect
6-3-2016 9:12:30	06-03-2016			Methotrexaat injvst 25mg/ml 0,6 ml	R. Jansen	Nee		Starten medicamenteuze behandeling

RedenVan Voorschrijven	Gebruiksaanwijzing			
Probleem	Omschrijving	Doseerinstructie	Dosering   Keerdosis	Toedieningsschema   Frequentie   Interval   Toedientijd   Weekdag   Dagdeel
	Van 8-9-2017 tot 18-9-2017 1x per dag 1 stuk. Vanaf 18-9-2017 staken.		1 stuk	1x per dag
Reumatoïde Artritis	Vanaf 6 maart 2016 1x per week op maandag om 14uur 15 mg (=0,6 ml)		15 mg (=0,6 ml)	1x per week op maandag (14u)

## 1.9 Instructions

### Medication Agreement Additional Information:

When choosing a medicine, you can deviate from what is expected or from what the standard is. For example, when the hospital uses a different formulary than the community pharmacy. For reasons of efficiency, for example, one gastric acid inhibitor has been chosen in the hospital: pantoprazole.

Upon admission, a patient with omeprazole is converted to pantoprazole for the duration of the stay. When discharged, the patient goes back to omeprazole.

It is clear that something can go wrong here and that the patient takes both omeprazole and pantoprazole when there is no intervention. In the hospital's medication agreement for pantoprazole a remark can be made about the deviation so that it is clear that pantoprazole is the substitute for omeprazole or that it should be used in addition to omeprazole.

Another example are the half strengths. The hospital sometimes stocks tablets with half the strength of the normal trade preparation (own production). Where the patient enters the hospital on 25 mg chlortalidone, half a tablet once a day, he receives 12.5 mg intramural chlortalidone, one tablet once a day. Then the nursing does not have to break tablets in this case. Here there is a risk that the patient will use the 25 mg again at home, but then a whole tablet at a time instead of half a tablet. By means of an explanation in the medication agreement (Additional information) of the last chlortalidone 25 mg, it can be indicated whether this has been an intended increase.

## 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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