

# Health & Care Information Model:

## nl.zorg.MedicationAgreement-v2.0

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# Content

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# 1. nl.zorg.MedicationAgreement-v2.0

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
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DCM::ModelerList	Kerngroep Registratie aan de Bron
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DCM::Version	2.0
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.

Publicatieversie 1.1 (31-01-2020)

Bevat: ZIB-888.

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Bevat: ZIB-911, ZIB-1020, ZIB-1021.

Publicatieversie 1.3 (01-12-2021)

Bevat: ZIB-1261, ZIB-1454, ZIB-1457, ZIB-1458, ZIB-1575.

Publicatieversie 2.0 (10-06-2022)

Bevat: ZIB-1659, ZIB-1685, ZIB-1696, ZIB-1720.

## 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

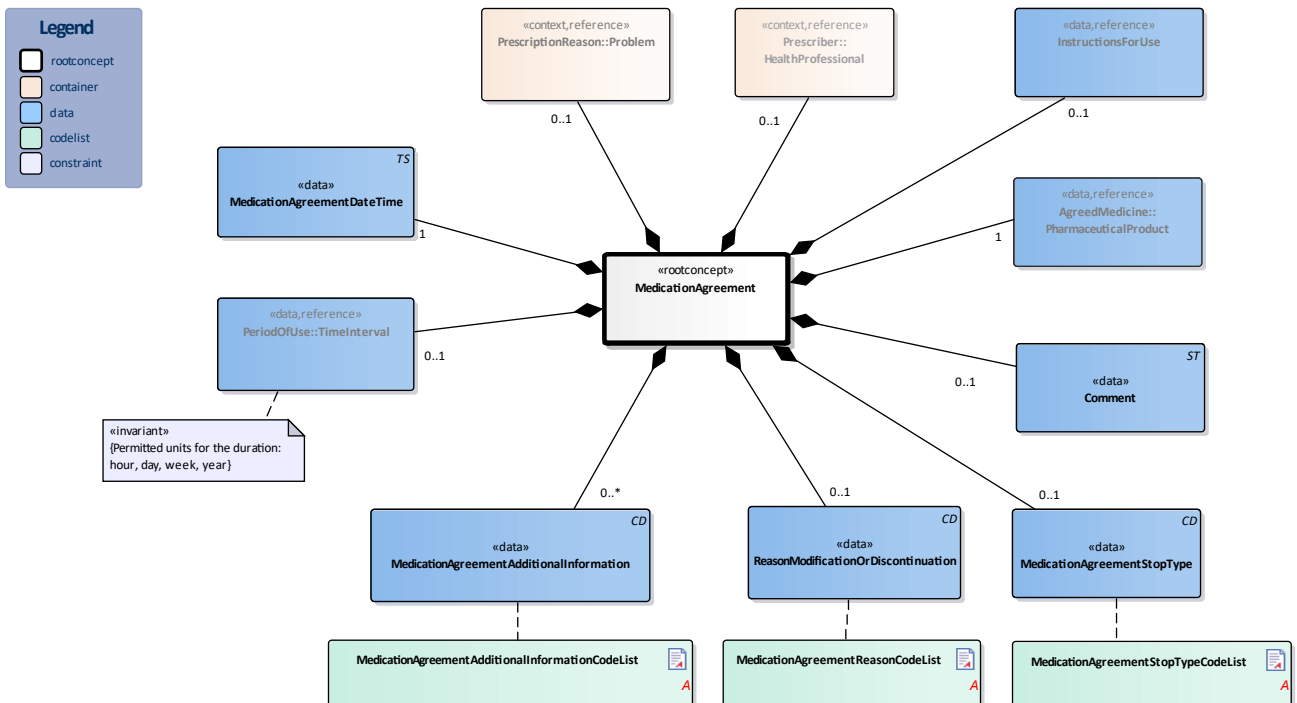
## 1.4 Purpose

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



<b>«rootconcept»</b>	<b>MedicationAgreement</b>	
<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>DCM::DefinitionCode</b>	SNOMED CT: 33633005	Prescription of drug
<b>Opties</b>		

<b>«context»</b>	<b>Prescriber::HealthProfessional</b>	
<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>	<p>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.</p> <p>It can concern every type of problem (or condition) of the patient, almost all diagnoses, complaints or symptoms.</p> <p>Please note: The BST401T file of the G standard contains a “special reference” to indicate that “exchange of the reason for prescription is essential”.</p>	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.6.23133	
<b>DCM::DefinitionCode</b>	SNOMED CT: 112201000146104 Medical reason for prescription (observable entity)	
<b>DCM::ReferencedConceptId</b>	NL-CM:5.1.1	This is a reference to the rootconcept of information model Problem.
<b>Opties</b>		

«data»	AgreedMedicine::PharmaceuticalProduct	
<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:9.7.1	This is a reference to the rootconcept of information model PharmaceuticalProduct.
<b>Opties</b>		

«data»	InstructionsForUse	
<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:9.12.1	This is a reference to the rootconcept of information model InstructionsForUse.
<b>Opties</b>		

«data»	MedicationAgreementDateTime	
<b>Definitie</b>	<p>The time at which the agreement was made.</p> <p>Appointment date + time are required (order of the appointments must be clear in cases with multiple appointments on one day)</p>	
<b>Datatype</b>	TS	
<b>DCM::ConceptId</b>	NL-CM:9.6.19757	
<b>DCM::ExampleValue</b>	27-01-2015	
<b>Opties</b>		

«data»	PeriodOfUse::TimeInterval	
<b>Definitie</b>	<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</p>	

	<p>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 until and including', 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>	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.6.19936	
<b>DCM::ExampleValue</b>	12-03-2012 16:00	
<b>DCM::ReferencedConceptId</b>	NL-CM:20.3.1	This is a reference to the rootconcept of partial information model TimeInterval.
<b>Opties</b>		

<b>«data»</b>	<b>MedicationAgreementStopType</b>	
<b>Definitie</b>	Stop type, the manner in which this medication is discontinued (temporary or definitive).	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:9.6.19954	
<b>DCM::DefinitionCode</b>	SNOMED CT: 274512008 Drug therapy discontinued (situation)	
<b>DCM::ValueSet</b>	MedicationAgreementStopTypeCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.1
<b>Opties</b>		

<b>«data»</b>	<b>ReasonModificationOrDiscontinuation</b>	
<b>Definitie</b>	Reason for modification or discontinuation of the medication agreement.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:9.6.22094	
<b>DCM::DefinitionCode</b>	SNOMED CT: 160111000146106 reden voor wijzigen van voorschrift	
<b>DCM::ValueSet</b>	MedicationAgreementReasonCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.2
<b>Opties</b>		

<b>«data»</b>	<b>MedicationAgreementAdditionalInformation</b>	
<b>Definitie</b>	<p>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.</p> <p>See also the Instructions section for more information about use of the element.</p>	
<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>
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<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>HCIM::ValueSetLanguage</b>	NL	
<b>Opties</b>		

<b>MedicatieafpraakAanvullendeInformatieCodelijst</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	G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050	Bewust hoge dosering
Bewust lage dosering	2	G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050	Bewust lage dosering
Bewust afwijkende toedieningsweg	3	G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050	Bewust afwijkende toedieningsweg
Medische noodzaak	4	G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050	Medische noodzaak
Profylaxe	5	G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050	Profylaxe
Wijziging in GDS per direct	6	G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050	Wijziging in GDS per direct
Wijziging in GDS per rolwissel	7	G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050	Wijziging in GDS per rolwissel
Bewust afwijken van leeftijdsgrenzen	8	G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050	Bewust afwijken van leeftijdsgrenzen
Bewust van te lage nierfunctie voor deze dosering	9	G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050	Bewust van te lage nierfunctie voor deze dosering
Bewust van eerder gemelde overgevoeligheid	10	G-std thesaurus 2050	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050	Bewust van eerder gemelde overgevoeligheid

<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>HCIM::ValueSetLanguage</b>	NL	
<b>Opties</b>		

<b>RedenWijzigenOfStakenCodelijst</b>			<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.2</b>	
<b>Concept Name</b>	<b>Concept Code</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>	<b>Description</b>
Medication	266709005	SNOMED CT	2.16.840.1.113883.6.96	Starten medicamenteuze

commenced				behandeling [DEPRECATED]
Administration of drug or medicament contraindicated (situation)	438833006	SNOMED CT	2.16.840.1.113883.6.96	Toedienen van medicatie gecontra-indiceerd
Drug interaction (disorder)	79899007	SNOMED CT	2.16.840.1.113883.6.96	Geneesmiddelinteractie
Adverse reaction to drug	62014003	SNOMED CT	2.16.840.1.113883.6.96	Ongewenste reactie op medicatie en/of drugs
Hypersensitivity condition (disorder)	473010000	SNOMED CT	2.16.840.1.113883.6.96	Overgevoeligheid [DEPRECATED]
Lack of drug action (finding)	58848006	SNOMED CT	2.16.840.1.113883.6.96	Gebrek aan geneesmiddeleffect
Too strong drug action (finding)	11225100014 6103	SNOMED CT	2.16.840.1.113883.6.96	Te sterk effect van medicatie
At risk of medication side effect (finding)	704417003	SNOMED CT	2.16.840.1.113883.6.96	(Mogelijke) bijwerking [DEPRECATED]
Insufficient route of administration (finding)	11219100014 6101	SNOMED CT	2.16.840.1.113883.6.96	Medicatie-toedieningsweg voldoet niet
Drug treatment not indicated (situation)	183966005	SNOMED CT	2.16.840.1.113883.6.96	Geen indicatie voor medicamenteuze behandeling
Medication management changed (situation)	11275100014 6109	SNOMED CT	2.16.840.1.113883.6.96	Medicatiebeleids veranderd
Admission to establishment (procedure)	305335007	SNOMED CT	2.16.840.1.113883.6.96	Opname in instelling
Patient requested modification of treatment	15971100014 6106	SNOMED CT	2.16.840.1.113883.6.96	Verzoek van zorgafnemer om behandeling te wijzigen
Patient requested treatment (situation)	184003006	SNOMED CT	2.16.840.1.113883.6.96	Wens patiënt [DEPRECATED]
Patient agreed with treatment (situation)	11221100014 6102	SNOMED CT	2.16.840.1.113883.6.96	Volgens afspraak [DEPRECATED]
Treatment previous prescriber continued (situation)	11226100014 6100	SNOMED CT	2.16.840.1.113883.6.96	Hervatten beleid vorige voorschrijver
Planned procedure (situation)	405613005	SNOMED CT	2.16.840.1.113883.6.96	Verrichting gepland
Incorrect registration of medication	15969100014 6109	SNOMED CT	2.16.840.1.113883.6.96	Foutieve registratie
Drug not available - out of stock	182856006	SNOMED CT	2.16.840.1.113883.6.96	Geneesmiddel niet voorradig
Change in lab value	16013100014 6104	SNOMED CT	2.16.840.1.113883.6.96	Verandering in labwaarde
Duplicate registration of medication treatment	16016100014 6108	SNOMED CT	2.16.840.1.113883.6.96	Dubbele registratie van medicamenteuze behandeling
Patient takes medication as prescribed	11222100014 6107	SNOMED CT	2.16.840.1.113883.6.96	Medicatiegebruik van patient volgens afspraak
Overig	OTH	NullFlavor	2.16.840.1.113883.5.10 08	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	
HCIM::ValueSetLanguage	NL	
Opties		

MedicatieafpraakStopTypeCodelijst			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
Drug therapy temporarily stopped	113381000146106	SNOMED CT	2.16.840.1.113883.6.96	Tijdelijke onderbreking van medicamenteuze behandeling (bijvoorbeeld tijdelijk stoppen gebruik vanwege operatie).
Drug therapy definitively stopped	113371000146109	SNOMED CT	2.16.840.1.113883.6.96	Het staken van een bestaande medicamenteuze behandeling.

	Legend
Definitie	
Datatype	
Opties	

## 1.8 Example Instances

MedicatieAfspraak DatumTijd	Gebruiksperiode			Afgesproken geneesmiddel	Voorschrijver	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	Definitief	Geen of onvoldoende effect
6-3-2016 9:12:30	06-03-2016			Methotrexaat injvst 25mg/ml 0,6 ml	R. Jansen		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

## 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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