

# Health & Care Information Model:

nl.zorg.MedicationAgreement-v4.1

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# Content

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# 1. nl.zorg.MedicationAgreement-v4.1

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	17-04-2026
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep Medicatieproces & Architectuurgroep Registratie aan de Bron
DCM::RevisionDate	09-04-2026
DCM::Supersedes	nl.zorg.Medicatieafspraak-v4.0
DCM::Version	4.1
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.

Publicatieversie 1.1 (31-01-2020)

Bevat: ZIB-888.

Publicatieversie 1.2 (01-09-2020)

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.

Publicatieversie 2.1 (15-10-2023)

Bevat: ZIB-1852, ZIB-1939, ZIB-1940.

Publicatieversie 3.0 (15-04-2024)

Bevat: ZIB-1903, ZIB-2092, ZIB-2128, ZIB-2132, ZIB-2133, ZIB-2176, ZIB-2202.

Publicatieversie 4.0 (24-04-2024)

Bevat: ZIB-2607.

## 1.2 Concept

A medication agreement is the agreement between the prescriber and the patient regarding this patient's use of medication. An agreement to stop or change the medication use is also a medication agreement.

## 1.3 Mindmap

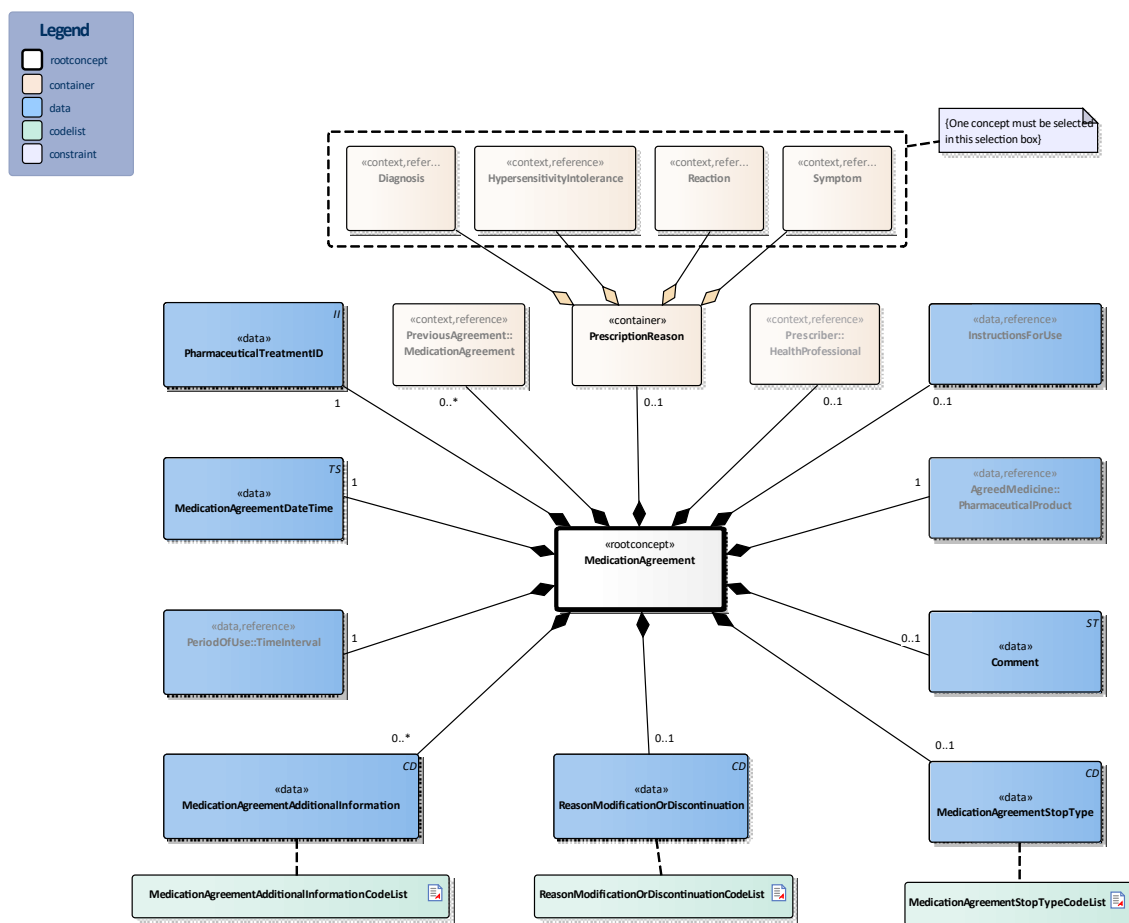
## 1.4 Purpose

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	
Definitie	Root concept of the MedicationAgreement information model. This root concept contains all data elements of the MedicationAgreement information model.	
Datatype		
DCM::ConceptId	NL-CM:9.6.9580	
DCM::DefinitionCode	SNOMED CT: 33633005 Prescription of drug	
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:9.6.23289	
Opties		

«context»	PreviousAgreement::MedicationAgreement	
Definitie	One or more medication agreements that have been discontinued or modified and for which this agreement is a replacement. When recording a new medication agreement that is intended to discontinue or modify one or more existing agreements, it is possible to explicitly indicate which previous medication agreements the replacement applies to. This reference is used in combination with the corresponding discontinuation type and any reason for changing or discontinuing.	
Datatype		
DCM::ConceptId	NL-CM:9.6.23290	
DCM::ReferencedConceptId	NL-CM:9.6.9580	This is a reference to the rootconcept of information model MedicationAgreement.
Opties		

«container»	PrescriptionReason	
Definitie	Container of the PrescriptionReason concept. This container contains all data elements of the PrescriptionReason concept.	
Datatype		
DCM::ConceptId	NL-CM:9.6.23284	
Opties		

«context»	Diagnosis	
Definitie	The diagnosis as the reason for prescription.	
Datatype		
DCM::ConceptId	NL-CM:9.6.23285	
DCM::ReferencedConceptId	NL-CM:5.6.1	This is a reference to the rootconcept of information model Diagnosis.

Opties	
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«context»	HypersensitivityIntolerance	
Definitie	The hypersensitivity or intolerance as the reason for prescription.	
Datatype		
DCM::ConceptId	NL-CM:9.6.23286	
DCM::ReferencedConceptId	NL-CM:8.6.1	This is a reference to the rootconcept of information model HypersensitivityIntolerance.
Opties		

«context»	Reaction	
Definitie	The adverse reaction to a substance or radiation as the reason for prescription.	
Datatype		
DCM::ConceptId	NL-CM:9.6.23287	
DCM::ReferencedConceptId	NL-CM:5.3.1	This is a reference to the rootconcept of information model Reaction.
Opties		

«context»	Symptom	
Definitie	The symptom as the reason for prescription.	
Datatype		
DCM::ConceptId	NL-CM:9.6.23288	
DCM::ReferencedConceptId	NL-CM:5.5.1	This is a reference to the rootconcept of information model Symptom.
Opties		

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

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

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

«data»	MedicationAgreementDateTime	
Definitie	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)	
Datatype	TS	
DCM::ConceptId	NL-CM:9.6.19757	
DCM::ExampleValue	27-01-2015	
Opties		

«data»	PeriodOfUse::TimeInterval	
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 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> <p>Permitted units for the duration: hour, day, week, year.</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»	MedicationAgreementStopType	
Definitie	Stop type indicates whether the medication has been cancelled or discontinued.	
Datatype	CD	
DCM::ConceptId	NL-CM:9.6.19954	
DCM::DefinitionCode	SNOMED CT: 274512008 Drug therapy discontinued (situation)	
DCM::ValueSet	MedicationAgreementStopTypeCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.1
Opties		

«data»	ReasonModificationOrDiscontinuation	
Definitie	Reason for modification, discontinuation, or canceling of the medication agreement.	
Datatype	CD	
DCM::ConceptId	NL-CM:9.6.22094	

<b>DCM::DefinitionCode</b>	SNOMED CT: 160111000146106 Reason for change of prescription	
<b>DCM::ValueSet</b>	ReasonModificationOrDiscon tinuationCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.2
<b>Opties</b>		

«data»	MedicationAgreementAdditionalInformation	
<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>	MedicationAgreementAdditi onallInformationCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.3
<b>Opties</b>		

«data»	Comment	
<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>		

«document»	MedicationAgreementAdditionalInformationCodeList	
<b>Definitie</b>	The G-standard contains a copy of the MP value lists.	
<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>DCM::ValueSetInclude OTH</b>	True	
<b>DCM::ValueSetStatus</b>	Active	
<b>HCIM::ValueSetLangu age</b>	NL	
<b>Opties</b>		

MedicatieafpraakAanvullendeInformatieCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.3	
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Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Bewust hoge dosering	1	MP codesystem MA aanvullende informatie	2.16.840.1.113883.2.4.3.11.60.20. 77.5.2.14.2050	Bewust hoge dosering
Bewust lage dosering	2	MP codesystem MA aanvullende informatie	2.16.840.1.113883.2.4.3.11.60.20. 77.5.2.14.2050	Bewust lage dosering
Bewust afwijkende toedieningsweg	3	MP codesystem MA aanvullende informatie	2.16.840.1.113883.2.4.3.11.60.20. 77.5.2.14.2050	Bewust afwijkende toedieningsweg
Medische noodzaak	4	MP codesystem MA aanvullende informatie	2.16.840.1.113883.2.4.3.11.60.20. 77.5.2.14.2050	Medische noodzaak
Profylaxe	5	MP codesystem MA aanvullende informatie	2.16.840.1.113883.2.4.3.11.60.20. 77.5.2.14.2050	Profylaxe
Wijziging in GDS per	6	MP codesystem MA	2.16.840.1.113883.2.4.3.11.60.20.	Wijziging in GDS per



direct		aanvullende informatie	77.5.2.14.2050	direct
Wijziging in GDS per rolwissel	7	MP codesystem MA aanvullende informatie	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	MP codesystem MA aanvullende informatie	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	MP codesystem MA aanvullende informatie	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	MP codesystem MA aanvullende informatie	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050	Bewust van eerder gemelde overgevoeligheid

«document»	ReasonModificationOrDiscontinuationCodeList	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.6.2	
DCM::ValueSetInclude OTH	True	
DCM::ValueSetStatus	Active	
HCIM::ValueSetLanguage	NL	
Opties		

RedenWijzigenOfStakenCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.2	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
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
Lack of drug action (finding)	58848006	SNOMED CT	2.16.840.1.113883.6.96	Gebrek aan geneesmiddeleffect
Too strong drug action (finding)	112251000146103	SNOMED CT	2.16.840.1.113883.6.96	Te sterk effect van medicatie
Insufficient route of administration (finding)	112191000146101	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)	112751000146109	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	159711000146106	SNOMED CT	2.16.840.1.113883.6.96	Verzoek van zorgafnemer om behandeling te wijzigen
Treatment previous prescriber continued (situation)	112261000146100	SNOMED CT	2.16.840.1.113883.6.96	Voortzetten van beleid van vorige zorgverlener
Planned procedure	405613005	SNOMED CT	2.16.840.1.113883.6.96	Verrichting gepland

(situation)				
Incorrect registration of medication	159691000146109	SNOMED CT	2.16.840.1.113883.6.96	Foutieve registratie van medicatie
Drug not available - out of stock	182856006	SNOMED CT	2.16.840.1.113883.6.96	Geneesmiddel niet voorradig
Change in lab value	160131000146104	SNOMED CT	2.16.840.1.113883.6.96	Verandering in labwaarde
Double registration of medication treatment	180011000146107	SNOMED CT	2.16.840.1.113883.6.96	Dubbele registratie van medicamenteuze behandeling
Patient takes medication as prescribed	112221000146107	SNOMED CT	2.16.840.1.113883.6.96	Medicatiegebruik van patient volgens afspraak

«document»	MedicationAgreementStopTypeCodeList			
Definitie				
Datatype				
DCM::ValueSetBinding	Extensible			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.6.1			
DCM::ValueSetInclude OTH	True			
DCM::ValueSetStatus	Active			
HCIM::ValueSetLanguage	NL			
Opties				
MedicatieafspraakStopTypeCodelijst		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
Discontinued	410546004	SNOMED CT	2.16.840.1.113883.6.96	Stopgezet
Suspended	385655000	SNOMED CT	2.16.840.1.113883.6.96	Onderbroken
Cancelled	89925002	SNOMED CT	2.16.840.1.113883.6.96	Geannuleerd

	Legend
Definitie	
Datatype	
Opties	

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

## 1.8 Example Instances

MedicatieAfspraak DatumTijd	Gebruiksperiode			Afgesproken geneesmiddel	Voorschrijver	MedicatieAfspraak Stoptype	MedicatieAfspraakRe denWijzigenOfStaken
	Ingangsdatum	Einddatum	Duur	FarmaceutischProduct	Zorgverlener		
					Naamgegevens		
18-9-2016 18:00:00	08-09-2016	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		

RedenVan Voorschrijven	Gebruiksaanwijzing						
	Omschrijving	Doseerinstructie					
Diagnose		Doseerduur	Dosering   Keerdosis	Toedieningsschema   Frequentie   Interval   Toedientijd   Weekdag   Dagdeel			
Hypertensie	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

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

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