

Health & Care Information Model: nl.zorg.MedicationAgreement-v1.1

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1. nl.zorg.MedicationAgreement-v1.1

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1.1 Revision History

Publicatieversie 1.0 (04-09-2017)

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Bevat: ZIB-618, ZIB-643.

Publicatieversie 1.1 (31-01-2020)

Bevat: ZIB-888.

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

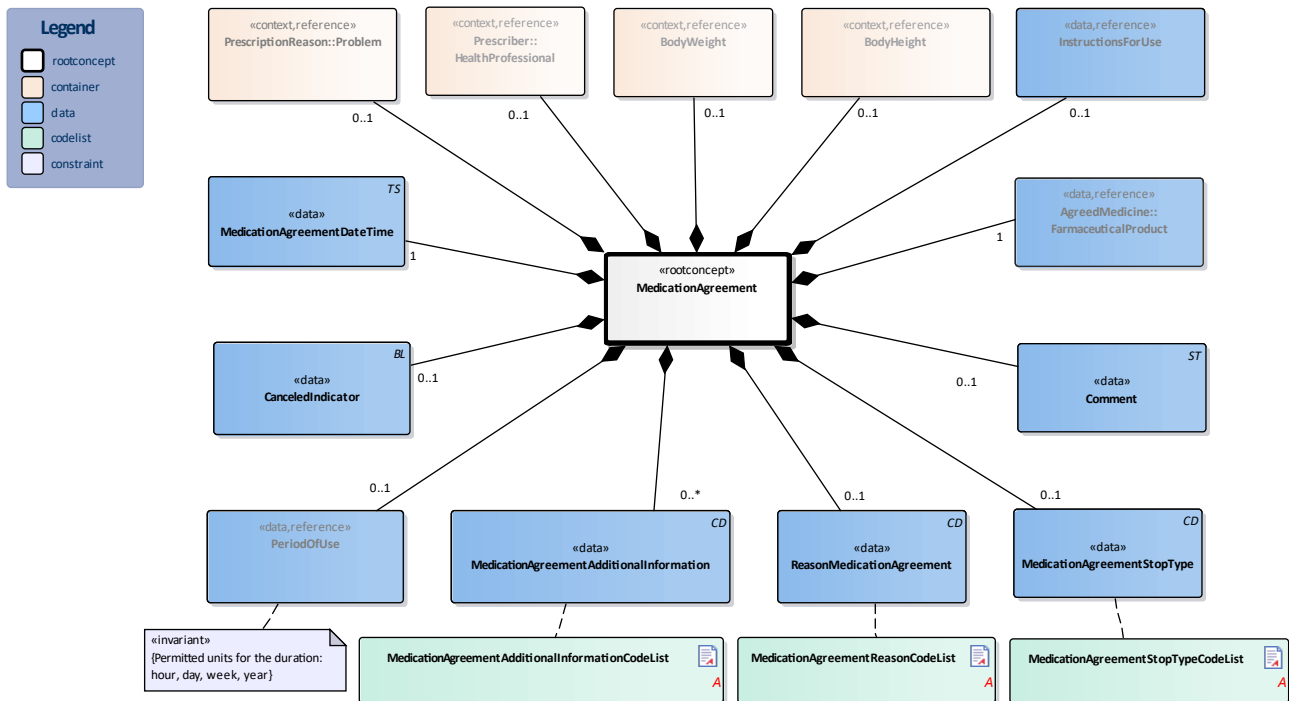
1.4 Purpose

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	
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: 16076005	Prescription (procedure)
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		

«context»	PrescriptionReason::Problem	
Definitie	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”.	
Datatype		
DCM::ConceptId	NL-CM:9.6.23133	
DCM::DefinitionCode	SNOMED CT: 112201000146104 Medical reason for prescription (observable entity)	
DCM::ReferencedConceptId	NL-CM:5.1.1	This is a reference to the rootconcept of information model Problem.
Opties		

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

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

«data»	AgreedMedicine::FarmaceuticaalProduct	
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 the partial information model Product.
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 the partial 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	
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>Duration: 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>End date: 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::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»	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::DefinitionCode	SNOMED CT: 112241000146101 Reason for prescription (observable entity)	
DCM::ValueSet	MedicationAgreementReasonCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.2

Opties	
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«data» MedicationAgreementAdditionalInformation	
Definitie	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.
Datatype	CD
DCM::ConceptId	NL-CM:9.6.23283
DCM::ValueSet	MedicationAgreementAdditionalInformationCodeList OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.3
Opties	

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

«document» MedicationAgreementAdditionalInformationCodeList	
Definitie	
Datatype	
DCM::ValueSetBinding	Extensible
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.6.3
Opties	

MedicatieafpraakAanvullendeInformatieCodeList			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.3	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
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

«document»	MedicationAgreementReasonCodeList	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.6.2	
Opties		

RedenMedicatieafpraakCodelijst			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
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 (DEPRECATED)
Lack of drug action (finding)	58848006	SNOMED CT	2.16.840.1.113883.6.96	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 (DEPRECATED)
Too strong drug action (finding)	112251000146103	SNOMED CT	2.16.840.1.113883.6.96	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 (DEPRECATED)
At risk of medication side effect (finding)	704417003	SNOMED CT	2.16.840.1.113883.6.96	(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 (DEPRECATED)
Insufficient route of administration (finding)	112191000146101	SNOMED CT	2.16.840.1.113883.6.96	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 (DEPRECATED)
Drug treatment not indicated (situation)	183966005	SNOMED CT	2.16.840.1.113883.6.96	Indicatie vervallen

Beleidswijziging	10	Medicatieafpraak Reden	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.2	Beleidswijziging (DEPRECATED)
Medication management changed (situation)	112751000146109	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 (DEPRECATED)
Patient requested treatment (situation)	184003006	SNOMED CT	2.16.840.1.113883.6.96	Wens patiënt
Volgens afspraak	13	Medicatieafpraak Reden	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.2	Volgens afspraak (DEPRECATED)
112211000146102	112211000146102	SNOMED CT	2.16.840.1.113883.6.96	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 (DEPRECATED)
Treatment previous prescriber continued (situation)	112261000146100	SNOMED CT	2.16.840.1.113883.6.96	Hervatten beleid vorige voorschrijver
Geplande procedure	15	Medicatieafpraak Reden	2.16.840.1.113883.2.4.3.11.60.20.77.5.2.2	Procedure waaronder ingreep, interferentie met gepland labonderzoek, etc. (DEPRECATED)
Planned procedure (situation)	405613005	SNOMED CT	2.16.840.1.113883.6.96	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		

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
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). (DEPRECATED)
Drug therapy temporarily stopped (finding)	112171000146100	SNOMED CT	2.16.840.1.113883.6.96	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. (DEPRECATED)
Drug therapy definitively stopped (finding)	112161000146106	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	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 chlorthalidone, half a tablet once a day, he receives 12.5 mg intramural chlorthalidone, 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 chlorthalidone 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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