

# Health & Care Information Model:

nl.zorg.MedicationUse2-v1.2

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# Content

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# 1. nl.zorg.MedicationUse2-v1.2

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	2.16.840.1.113883.2.4.3.11.60.40.3.9.11
DCM::KeywordList	Medicatie, Gebruik
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DCM::Version	1.2
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-906, ZIB-888.

Publicatieversie 1.1.1 (01-09-2020)

Bevat: ZIB-911.

Publicatieversie 1.2 (01-12-2021)

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

## 1.2 Concept

MedicationUse is a statement on the historic, current or intended use of a certain medicine.

## 1.3 Mindmap

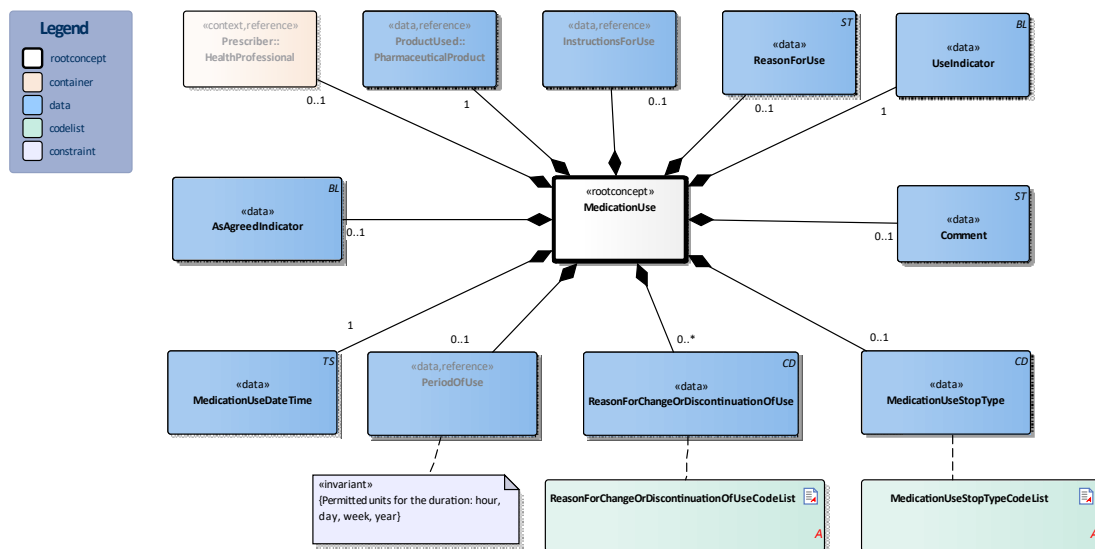
## 1.4 Purpose

The goal of the medication use is to provide insight into the patient's pattern of use.

## 1.5 Patient Population

## 1.6 Evidence Base

## 1.7 Information Model



«rootconcept»	MedicationUse	
Definitie	Root concept of the MedicationUse information model. This root concept contains all data elements of the MedicationUse information model.	
Datatype		
DCM::ConceptId	NL-CM:9.11.21338	
DCM::DefinitionCode	SNOMED CT: 422979000	Medication regimen behavior finding
Opties		

«context»	Prescriber::HealthProfessional	
Definitie	The health professional that entered the medication agreement with the patient.	
Datatype		
DCM::ConceptId	NL-CM:9.11.23290	
DCM::ReferencedConceptId	NL-CM:17.1.1	This is a reference to the rootconcept of information model HealthProfessional.
Opties		

«data»	ProductUsed::PharmaceuticalProduct	
Definitie	The product used. This is usually medication. Food, blood products, aids and bandages do not strictly fall under the category of medication, but can be recorded as well.	
	In principle, this will be the prescribed product, but the product used may	

	differ from the prescribed product.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.11.21339	
<b>DCM::ReferencedConceptId</b>	NL-CM:9.7.19926	This is a reference to the rootconcept of information model PharmaceuticalProduct.
<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. In the event of medication use, this is the pattern of use established by the patient or which the patient followed.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.11.22504	
<b>DCM::ReferencedConceptId</b>	NL-CM:9.12.22504	This is a reference to the rootconcept of information model InstructionsForUse.
<b>Opties</b>		

<b>«data»</b>	<b>MedicationUseDateTime</b>	
<b>Definitie</b>	Date on which this use is entered.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.11.22398	
<b>Opties</b>		

<b>«data»</b>	<b>PeriodOfUse</b>	
<b>Definitie</b>	<p>Medication use can be recorded for a certain moment or over a certain period. Thus, medication use can be recorded multiple times during the use of medication. The usage period is the period or moment over which the data is recorded.</p> <p><b>Start date:</b> This is the time at which the agreement was to take effect (or took effect or will take effect).</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). To avoid confusion between 'to' and 'up to', the submission of time is always mandatory for the end date.</p>	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.11.22663	
<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>AsAgreedIndicator</b>	
<b>Definitie</b>	Is the medicine used as outlined in the medication agreement?	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.11.22492	
<b>DCM::ExampleValue</b>	nee	
<b>Opties</b>		

<b>«data»</b>	<b>UseIndicator</b>	
<b>Definitie</b>	Is this medicine used or not?	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.11.22399	

<b>DCM::DefinitionCode</b>	SNOMED CT: 112221000146107 patient takes medication as prescribed (finding)	
<b>Opties</b>		

<b>«data»</b>	<b>ReasonForUse</b>	
<b>Definitie</b>	The reason for using the medication, particularly in self-care medicine purchased by the patient themselves.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.11.22491	
<b>Opties</b>		

<b>«data»</b>	<b>MedicationUseStopType</b>	
<b>Definitie</b>	Stop type, the manner in which this medication is discontinued (temporary or definitive).	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.11.23132	
<b>DCM::ValueSet</b>	MedicationUseStopTypeCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.11.1
<b>Opties</b>		

<b>«data»</b>	<b>ReasonForChangeOrDiscontinuationOfUse</b>	
<b>Definitie</b>	Reason for changing or discontinuing use of medication.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.11.22493	
<b>DCM::ValueSet</b>	ReasonForChangeOrDiscontinuationOfUseCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.11.2
<b>Opties</b>		

<b>«data»</b>	<b>Comment</b>	
<b>Definitie</b>	Comments on the medication use.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.11.21624	
<b>DCM::DefinitionCode</b>	LOINC: 48767-8 Annotation comment	
<b>Opties</b>		

<b>«document»</b>	<b>MedicationUseStopTypeCodeList</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.11.1	
<b>HCIM::ValueSetLanguage</b>	NL	
<b>Opties</b>		

<b>MedicatiegebruikStopTypeCodelijst</b>			<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.11.1</b>	
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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 definitely stopped	113371000146109	SNOMED CT	2.16.840.1.113883.6.96	Het staken van een bestaande medicamenteuze behandeling.

«document»		ReasonForChangeOrDiscontinuationOfUseCodeList		
<b>Definitie</b>				
<b>Datatype</b>				
<b>DCM::ValueSetBinding</b>	Required			
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.11.2			
<b>HCIM::ValueSetLanguage</b>	NL			
<b>Opties</b>				
<b>RedenWijzigenOfStoppenGebruikCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.11.2</b>		
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
Lack of drug action (finding)	58848006	SNOMED CT	2.16.840.1.113883.6.96	Geen of onvoldoende effect
Too strong drug action (finding)	112251000146103	SNOMED CT	2.16.840.1.113883.6.96	Te sterk effect
At risk of medication side effect (finding)	704417003	SNOMED CT	2.16.840.1.113883.6.96	(Mogelijke) bijwerking
Insufficient route of administration (finding)	112191000146101	SNOMED CT	2.16.840.1.113883.6.96	Toedieningsweg voldoet niet
Drug treatment not indicated (situation)	183966005	SNOMED CT	2.16.840.1.113883.6.96	Indicatie vervallen
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
Patient requested treatment (situation)	184003006	SNOMED CT	2.16.840.1.113883.6.96	Wens patiënt
Patient accepted drug therapy (situation)	112211000146102	SNOMED CT	2.16.840.1.113883.6.96	Volgens afspraak
Treatment previous prescriber continued (situation)	112261000146100	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	Procedure waaronder ingreep, interferentie met gepland labonderzoek, etc.
Overig	OTH	NullFlavor	2.16.840.1.113883.5.10	Overig

Legend	
Definitie	
Datatype	
Opties	

## 1.8 Example Instances

MedicatieGebruik DatumTijd	GebruikIndicator	VolgensAfspraak Indicator	Medicatiegebruik Stootype	Gebruiksperiode			Gebruiksproduct
				Ingangsdatum	Elinddatum	Gebruiksduur	ProductCode
3-6-2014 16:19:07	Ja			Mei 2014		1 maand	Paracetamol tablet 500 mg
11-9-2012 17:21:00	Ja	Ja		01-09-12	05-09-12		Pantoprazol injpdr 40 mg fl
19-9-2014 4:12:11	Nee	Nee	Definitief	17-09-14			Dalteparine 2500 injvist 12.500 ie/ml wwsp 0,2ml

RedenGebruik	RedenWijzigenOf StoppenGebruik	Gebruiks instructie						
		Omschrijving	Toedienings Weg	Aanvullende instructie	Doseerinstructie	Doseerduur	Dosering   Keerdosis	Toedieningsschema   Frequentie   Interval   Toedientijd   Weekda g   Dagdeel
Pijn		In de maand mei heb ik regelmatig paracetamol gebruikt.						
Ulcusprofylaxe		Vanaf 1 september 2012 gedurende 5 dagen 1x per dag om 8uur 40 mg (=1 st)	iv				40 mg (=1 st)	1x per dag om 8.00 uur
	(Mogelijke bijwerking	Tijdelijk gestopt vanwege toenemende bijwerkingen: duizeligheid en misselijkheid.	subcutaan				2500 IE	1x per dag om 18.00 uur

## 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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