

# Health & Care Information Model:

nl.zorg.MedicationUse2-v3.0

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# Content

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# 1. nl.zorg.MedicationUse2-v3.0

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DCM::CreationDate	1-2-2017
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## 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.

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Bevat: ZIB-911.

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

Publicatieversie 2.0 (10-06-2022)

Bevat: ZIB-1685, ZIB-1725.

Publicatieversie 2.1 (15-10-2023)

Bevat: ZIB-1965, ZIB-1974.

Publicatieversie 3.0 (15-04-2024)

Bevat: ZIB-2091, ZIB-2092, ZIB-2132, ZIB-2133, ZIB-2152, ZIB-2153.

## 1.2 Concept

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

### 1.3 Mindmap

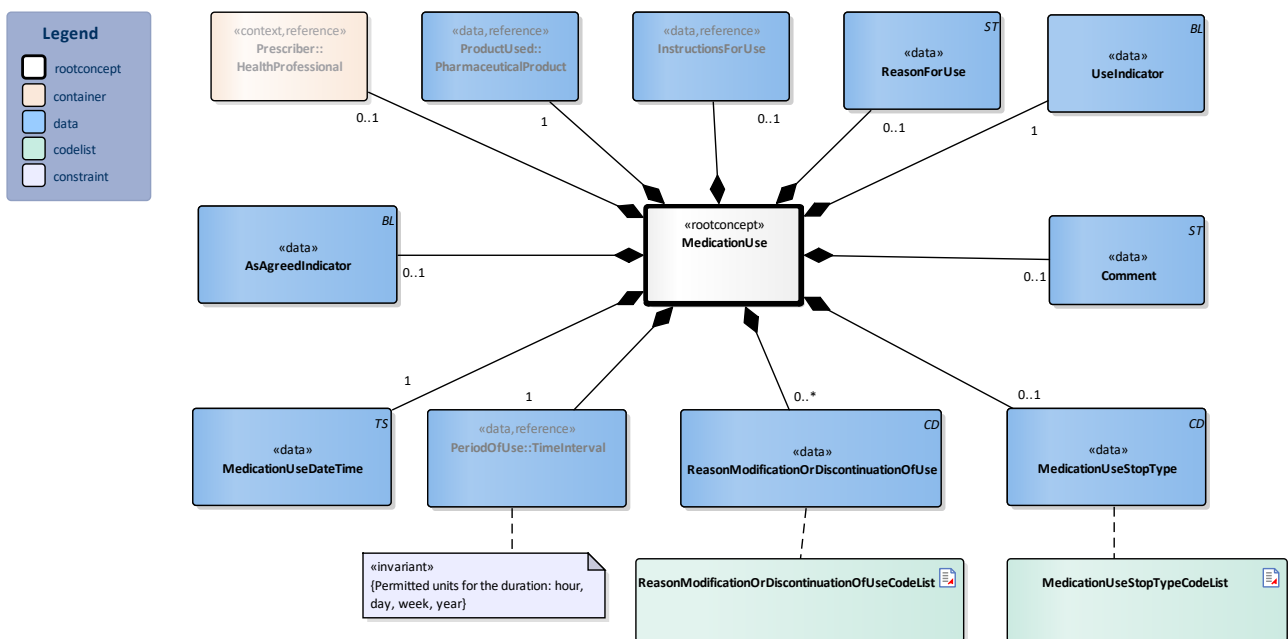
### 1.4 Purpose

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.	
Datatype		
DCM::ConceptId	NL-CM:9.11.21339	
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. In the event of medication use, this is the pattern of use established by the patient or that the patient followed.	
Datatype		
DCM::ConceptId	NL-CM:9.11.22504	
DCM::ReferencedConceptId	NL-CM:9.12.22504	This is a reference to the rootconcept of information model InstructionsForUse.
Opties		

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

«data»	PeriodOfUse::TimeInterval	
Definitie	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. <b>Start date:</b> This is the time at which the agreement was to take effect (or took effect or will take effect). <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. <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 until and including', the submission of time is always mandatory for the end date.	
Datatype		
DCM::ConceptId	NL-CM:9.11.22663	
DCM::ReferencedConceptId	NL-CM:20.3.1	This is a reference to the rootconcept of partial information model TimeInterval.
Opties		

«data»	AsAgreedIndicator	
Definitie	Is the medicine used as outlined in the medication agreement?	
Datatype	BL	
DCM::ConceptId	NL-CM:9.11.22492	

<b>DCM::DefinitionCode</b>	SNOMED CT: 112221000146107 Patient takes medication as prescribed	
<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>	BL
<b>DCM::ConceptId</b>	NL-CM:9.11.22399
<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>	ST
<b>DCM::ConceptId</b>	NL-CM:9.11.22491
<b>DCM::DefinitionCode</b>	SNOMED CT: 11611000146100 Reden voor medicatiegebruik
<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>	CD
<b>DCM::ConceptId</b>	NL-CM:9.11.23132
<b>DCM::ValueSet</b>	MedicationUseStopTypeCod eList OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.11.1
<b>Opties</b>	

<b>«data»</b>	<b>ReasonModificationOrDiscontinuationOfUse</b>
<b>Definitie</b>	Reason for changing or discontinuing use of medication.
<b>Datatype</b>	CD
<b>DCM::ConceptId</b>	NL-CM:9.11.22493
<b>DCM::DefinitionCode</b>	SNOMED CT: 153861000146102 Reason for change of medication usage
<b>DCM::ValueSet</b>	ReasonModificationOrDiscon tinuationOfUseCodeList 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>	ST
<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>	Extensible			
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.6 0.40.2.9.11.1			
<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>	
<b>Concept Name</b>	<b>Concept Code</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>	<b>Description</b>
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.

<b>«document»</b>	<b>ReasonModificationOrDiscontinuationOfUseCodeList</b>			
<b>Definitie</b>				
<b>Datatype</b>				
<b>DCM::ValueSetBinding</b>	Extensible			
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.6 0.40.2.9.11.2			
<b>HCIM::ValueSetLanguage</b>	--			
<b>Opties</b>				
<b>RedenWijzigenOfStoppenGebruikCodelijst</b>			<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.11.2</b>	
<b>Concept Name</b>	<b>Concept Code</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>	<b>Description</b>
Medication commenced	266709005	SNOMED CT	2.16.840.1.113883.6.96	Starten medicamenteuze behandeling [DEPRECATED]
Administration of medication contraindicated	438833006	SNOMED CT	2.16.840.1.113883.6.96	Contra-indicatie
Medication interaction	79899007	SNOMED CT	2.16.840.1.113883.6.96	Interactie
Adverse reaction to drug	62014003	SNOMED CT	2.16.840.1.113883.6.96	Overgevoeligheid
Hypersensitivity condition	473010000	SNOMED CT	2.16.840.1.113883.6.96	Overgevoeligheid [DEPRECATED]
Lack of drug action	58848006	SNOMED CT	2.16.840.1.113883.6.96	Geen of onvoldoende effect
Drug action too strong	112251000146103	SNOMED CT	2.16.840.1.113883.6.96	Te sterk effect
At risk of medication side effect	704417003	SNOMED CT	2.16.840.1.113883.6.96	(Mogelijke) bijwerking [DEPRECATED]
Insufficient route of drug administration	112191000146101	SNOMED CT	2.16.840.1.113883.6.96	Toedieningsweg voldoet niet
Drug treatment not indicated	183966005	SNOMED CT	2.16.840.1.113883.6.96	Indicatie vervallen
Medication management changed	112751000146109	SNOMED CT	2.16.840.1.113883.6.96	Beleidswijziging
Admission to	305335007	SNOMED CT	2.16.840.1.113883.6.96	Opname

establishment				
Patient requested modification of treatment	159711000146106	SNOMED CT	2.16.840.1.113883.6.96	verzoek van zorgafnemer om behandeling te wijzigen Verzoek van zorgafnemer om behandeling te wijzigen
Patient requested treatment	184003006	SNOMED CT	2.16.840.1.113883.6.96	Wens patiënt [DEPRECATED]
Patient takes medication as prescribed	112221000146107	SNOMED CT	2.16.840.1.113883.6.96	Medicatiegebruik van patiënt volgens afspraak
Patient agreed with treatment	112211000146102	SNOMED CT	2.16.840.1.113883.6.96	Volgens afspraak [DEPRECATED]
Treatment previous prescriber continued	112261000146100	SNOMED CT	2.16.840.1.113883.6.96	Hervatten beleid vorige voorschrijver
Verandering in labwaarde	160131000146104	SNOMED CT	2.16.840.1.113883.6.96	Verandering in labwaarde
Drug not available - out of stock	182856006	SNOMED CT	2.16.840.1.113883.6.96	Geneesmiddel niet voorradig
Incorrect registration of medication	159691000146109	SNOMED CT	2.16.840.1.113883.6.96	Foutieve registratie van medicatie
Planned procedure	405613005	SNOMED CT	2.16.840.1.113883.6.96	Procedure waaronder ingreep, interferentie met gepland labonderzoek, etc.
Double registration of medication treatment	180011000146107	SNOMED CT	2.16.840.1.113883.6.96	Loopt in andere medicamenteuze behandeling
Overig	OTH	NullFlavor	2.16.840.1.113883.5.1008	Overig

Legend	
<b>Definitie</b>	
<b>Datatype</b>	
<b>Opties</b>	

## 1.8 Example Instances



MedicatieGebruik DatumTijd	GebruikIndicator	VolgensAfspraak Indicator	Medicatiegebruik Stootype	Gebruiksperiode			Gebruiksproduct
				Ingangsdatum	Einddatum	Gebruiksduur	ProductCode
3-6-2014 16:19:07	Ja			Mei 2014		4 weken	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 injvlst 12.500 ie/ml wwsp 0,2ml

RedenGebruik	RedenWijzigen OfStoppen Gebruik	GebruiksInstructie						
		Omschrijving	ToedieningsWeg	Aanvullende instructie	Doseerinstructie	Doseerduur	Dosering   Keerdosis	Toedieningsschema  Frequentie  Interval  Toedientijd  Weekdag  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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