

Health & Care Information Model:

nl.zorg.MedicationUse2-v2.1

Status: Final

Release: 2023

Release status: Prepublished

Managed by:



Content

1. nlzorg.MedicationUse2-v2.1	3
1.1 Revision History	3
1.2 Concept	3
1.3 Mindmap	3
1.4 Purpose	4
1.5 Patient Population	4
1.6 Evidence Base	4
1.7 Information Model	4
1.8 Example Instances	8
1.9 Instructions	8
1.10 Interpretation	9
1.11 Care Process	9
1.12 Example of the Instrument	9
1.13 Constraints	9
1.14 Issues	9
1.15 References	9
1.16 Functional Model	9
1.17 Traceability to other Standards	9
1.18 Disclaimer	9
1.19 Terms of Use	9
1.20 Copyrights	10

1. nl.zorg.MedicationUse2-v2.1

DCM::Codelist	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
DCM::LifecycleStatus	Final
DCM::ModelerList	Architectuurgroep Registratie aan de Bron
DCM::Name	nl.zorg.MedicatieGebruik2
DCM::PublicationDate	15-10-2023
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep Medicatieproces & Architectuurgroep Registratie aan de Bron
DCM::RevisionDate	08-09-2023
DCM::Supersedes	nl.zorg.MedicatieGebruik2-v2.0
DCM::Version	2.1
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-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.

Publicatieversie 2.0 (10-06-2022)
Bevat: ZIB-1685, ZIB-1725.

Publicatieversie 2.1 (15-10-2023)
Bevat: ZIB-1965, ZIB-1974.

1.2 Concept

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

1.3 Mindmap

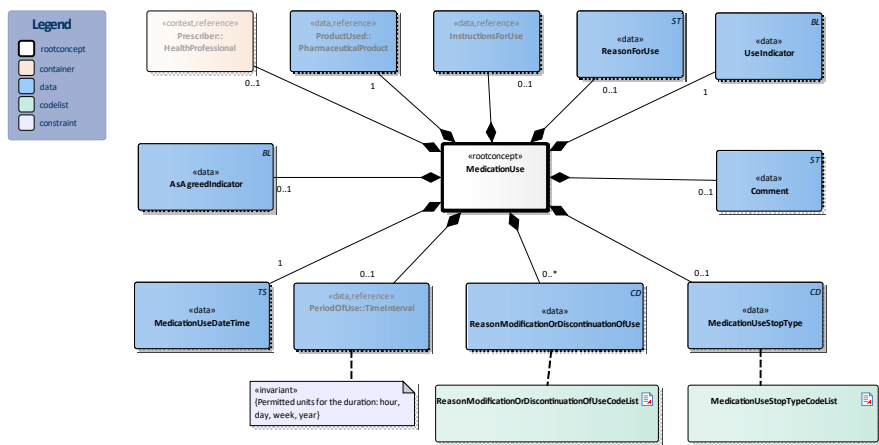
1.4 Purpose

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	<p>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.</p> <p>In principle, this will be the prescribed product, but the product used may differ from the prescribed product.</p>	
Datatype		
DCM::ConceptId	NL-CM:9.11.21339	
DCM::ReferencedConceptId	NL-CM:9.7.1	This is a reference to the rootconcept of information model PharmaceuticalProduct.
Opties		

«data»	InstructionsForUse	
Definitie	<p>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.</p>	
Datatype		
DCM::ConceptId	NL-CM:9.11.22504	
DCM::ReferencedConceptId	NL-CM:9.12.1	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	<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>Start date: This is the time at which the agreement was to take effect (or took effect or will take effect).</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). To avoid confusion between 'to' and 'up until and including', the submission of time is always mandatory for the end date.</p>	
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	
DCM::ExampleValue	nee	
Opties		

«data»	UseIndicator	
---------------	---------------------	--

Definitie	Is this medicine used or not?	
Datatype	BL	
DCM::ConceptId	NL-CM:9.11.22399	
DCM::DefinitionCode	SNOMED CT: 112221000146107 patient takes medication as prescribed (finding)	
Opties		

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

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

«data»	ReasonModificationOrDiscontinuationOfUse	
Definitie	Reason for changing or discontinuing use of medication.	
Datatype	CD	
DCM::ConceptId	NL-CM:9.11.22493	
DCM::DefinitionCode	SNOMED CT: 153861000146102 Reason for change of medication usage	
DCM::ValueSet	ReasonModificationOrDiscontinuationOfUseCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.11.2
Opties		

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

«document»	MedicationUseStopTypeCodeList	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.11.1	
HCIM::ValueSetLanguage	NL	
Opties		

MedicatiegebruikStopTypeCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.11.1
---	---

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 definitely stopped	113371000146109	SNOMED CT	2.16.840.1.113883.6.96	Het staken van een bestaande medicamenteuze behandeling.

«document»	ReasonModificationOrDiscontinuationOfUseCodeList		
Definitie			
Datatype			
DCM::ValueSetBinding	Extensible		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.11.2		
HCIM::ValueSetLanguage	--		
Opties			

RedenWijzigenOfStoppenGebruikCodeLijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.11.2	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
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 establishment	305335007	SNOMED CT	2.16.840.1.113883.6.96	Opname
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	184003006	SNOMED CT	2.16.840.1.113883.6.96	Wens patiënt

treatment				[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.
Overig	OTH	NullFlavor	2.16.840.1.113883.5.1008	Overig

	Legend
Definitie	
Datatype	
Opties	

1.8 Example Instances

MedicatieGebruik DatumTijd	GebruikIndicator	VolgensAfspraak Indicator	Medicatiegebruik Stoptype	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 injvst 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

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 development of the information models. Hereafter, these parties and Nictiz are referred to as the collaborating parties. The collaborating parties paid utmost attention to the reliability and topicality of the data in these Health and Care Information Models. Omissions and inaccuracies may however occur. The collaborating parties are not liable for any damages resulting from omissions or inaccuracies in the information provided, nor are they liable for damages resulting from problems caused by or inherent to distributing information on the internet, such as malfunctions, interruptions, errors or delays in information or services provide by the parties to you or by you to the parties via a website or via e-mail, or any other digital means. The collaborating parties will also not accept liability for any damages resulting from the use of data, advice or ideas provided by or on behalf of the parties by means of the Health and Care Information Models. The parties will not accept any liability for the content of information in this Health and Care Information Model to which or from which a hyperlink is referred. In the event of contradictions in mentioned Health and Care Information Model documents and files, the most recent and highest version of the listed order in the revisions will indicate the priority of the documents in question. If information included in the digital version of a Health and Care Information Model is also distributed in writing, the written version will be leading in case of textual differences. This will apply if both have the same version number and date. A definitive version has priority over a draft version. A revised version has priority over previous versions.

1.19 Terms of Use

The user may use the Health and Care Information Models without limitations. The copyright provisions in

the paragraph concerned apply to copying, distributing and passing on the Health and Care Information Models.

1.20 Copyrights

A Health and Care Information Model qualifies as a work within the meaning of Section 10 of the Copyright Act (Auteurswet). Copyrights protect the Health and Care Information Models and these rights are owned by the cooperating parties.

The user may copy, distribute and pass on the information in this Health and Care Information Model under the conditions that apply for Creative Commons license Attribution-NonCommercial-ShareAlike 3.0 Netherlands (CC BY-NC-SA-3.0).

The content is available under Creative Commons Attribution-NonCommercial-ShareAlike 3.0 (see also <http://creativecommons.org/licenses/by-nc-sa/3.0/nl/>)

This does not apply to information from third parties that sometimes is used and / or referred to in a Health and Care Information Model, for example to an international medical terminology system. Any (copyright) rights that protect this information are not owned by the cooperating parties but by those third parties.

Nictiz is the independent national competence centre for electronic exchange of health and care information. The activities of Nictiz include the targeted development and management of information standards at the request of and in partnership with the stakeholders in healthcare. Nictiz advises these parties on all aspects of information exchange and identifies (future) national and international developments.

Nictiz
P.O. Box 19121
2500 CC Den Haag
Oude Middenweg 55
2491 AC Den Haag

070-3173450
info@nictiz.nl
www.nictiz.nl



