

# Health & Care Information Model:

nl.zorg.DrugUse-v3.5

Status: Final

Release: 2024

Release status: Published

Managed by:



# Content

<b>1. nl.zorg.DrugUse-v3.5</b> .....	<b>3</b>
1.1 Revision History.....	3
1.2 Concept .....	4
1.3 Mindmap .....	4
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.....	9
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 .....	10
1.20 Copyrights.....	10

# 1. nl.zorg.DrugUse-v3.5

DCM::CoderList	Kerngroep Registratie aan de Bron
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::CreationDate	5-7-2012
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.7.4
DCM::KeywordList	drugsgebruik, verdovende middelen, middelen gebruik, drugs
DCM::LifecycleStatus	Final
DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.zorg.DrugsGebruik
DCM::PublicationDate	24-04-2024
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	05-04-2024
DCM::Supersedes	nl.zorg.DrugsGebruik-v3.4.1
DCM::Version	3.5
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (15-02-2013)

Publicatieversie 1.1 (01-07-2013)

Publicatieversie 1.2 (01-04-2015)

Bevat: ZIB-138, ZIB-139, ZIB-158, ZIB-161, ZIB-167, ZIB-224, ZIB-225, ZIB-308, ZIB-312, ZIB-313, ZIB-316, ZIB-319.

Incl. algemene wijzigingsverzoeken:

ZIB-94, ZIB-154, ZIB-200, ZIB-201, ZIB-309, ZIB-324, ZIB-326.

Publicatieversie 1.2.1 (22-05-2015)

Bevat: ZIB-388.

Publicatieversie 1.2.2 (16-07-2015)

Bevat: ZIB-418.

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-453.

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-475, ZIB-488, ZIB-505, ZIB-512, ZIB-564.

Publicatieversie 3.2 (31-12-2017)

Bevat: ZIB-555.

Publicatieversie 3.3 (01-09-2020)  
Bevat: ZIB-936, ZIB-1181.

Publicatieversie 3.4 (01-12-2021)  
Bevat: ZIB-1009, ZIB-1302, ZIB-1575.

Publicatieversie 3.4.1 (15-10-2023)  
Bevat: ZIB-1974.

Publicatieversie 3.5 (15-04-2024)  
Bevat: ZIB-2146.

## **1.2 Concept**

Drugs (or: narcotics, amphetamines, intoxicants, highs, hallucinogenics, illegal substances or dope) is a collective term for drugs and chemical substances with a more or less 'drugging' (anesthetic, boosting and/or hallucinogenic) effect and which can lead to addiction. Drug [Online] Available at: [nl.Wikipedia.org/wiki/drug](https://nl.wikipedia.org/wiki/drug) [Accessed: 11 February 2015].

This information model describes the information asked of the patient about their drug use.

## **1.3 Mindmap**

## **1.4 Purpose**

Documenting and sharing registration of the drug use, as described in the concept.

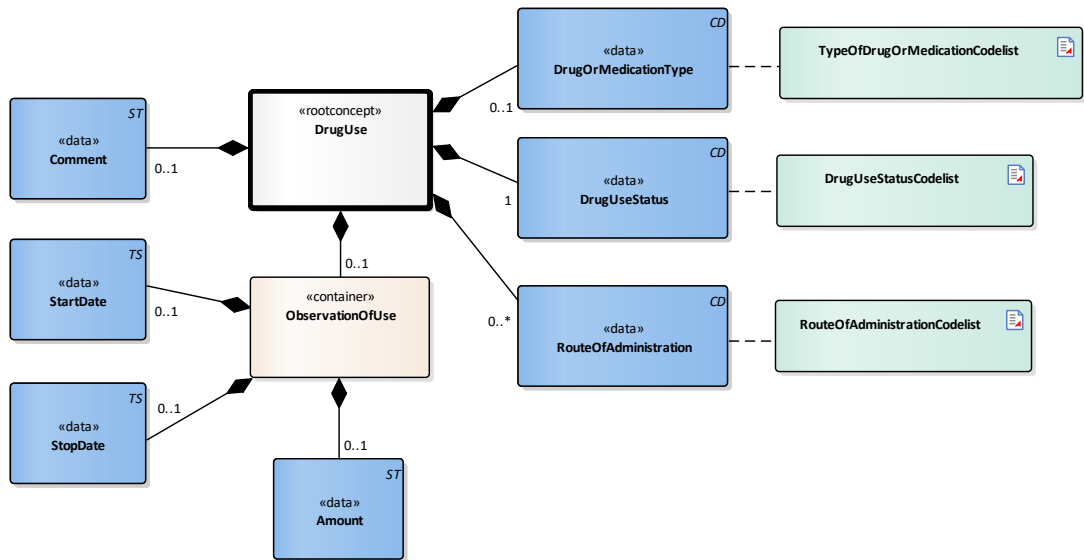
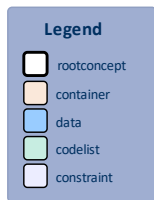
## **1.5 Patient Population**

## **1.6 Evidence Base**

Though this information model can also be used to abuse (the patient's own) medication, the project group eventually decided to focus on information on drug use, as described in the concept.

Seeing as there is a large variety of ways to record the amount of drugs used, we decided that this part is to be entered as free text.

## **1.7 Information Model**



«rootconcept»	DrugUse	
<b>Definitie</b>	Root concept of the DrugUse information model. This concept contains all data elements of the DrugUse information model.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:7.4.1	
<b>DCM::DefinitionCode</b>	SNOMED CT: 228366006	Finding relating to drug misuse behavior
<b>Opties</b>		

«container»	ObservationOfUse	
<b>Definitie</b>	Container for ObservationOfUse. This container contains all data elements of the ObservationOfUse container.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:7.4.5	
<b>Opties</b>		

«data»	StartDate	
<b>Definitie</b>	The date on which the patient started using.	
<b>Datatype</b>	TS	
<b>DCM::ConceptId</b>	NL-CM:7.4.6	
<b>DCM::ExampleValue</b>	1975	
<b>Opties</b>		

«data»	StopDate	
<b>Definitie</b>	The date on which the patient quit using.	
<b>Datatype</b>	TS	
<b>DCM::ConceptId</b>	NL-CM:7.4.7	
<b>DCM::ExampleValue</b>	28-02-2012	
<b>Opties</b>		

«data»	Amount	
<b>Definitie</b>	The number of units (pills, joints, shots etc.) per day, week, month, or year; or the frequency of use.	
<b>Datatype</b>	ST	
<b>DCM::ConceptId</b>	NL-CM:7.4.8	
<b>DCM::DefinitionCode</b>	SNOMED CT: 228390007	Frequency of drug misuse

<b>DCM::ExampleValue</b>	3 maal per week	
<b>Opties</b>		

«data»	Comment	
<b>Definitie</b>	Relevant comments on the drug use.	
<b>Datatype</b>	ST	
<b>DCM::ConceptId</b>	NL-CM:7.4.9	
<b>DCM::DefinitionCode</b>	LOINC: 48767-8 Annotation comment	
<b>DCM::ExampleValue</b>	XTC	
<b>Opties</b>		

«data»	DrugOrMedicationType	
<b>Definitie</b>	Type of drug used by the patient.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:7.4.2	
<b>DCM::DefinitionCode</b>	SNOMED CT: 410942007 Drug or medicament	
<b>DCM::ExampleValue</b>	LSD	
<b>DCM::ValueSet</b>	TypeOfDrugOrMedicationCo delist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.7.4.1
<b>Opties</b>		

«data»	DrugUseStatus	
<b>Definitie</b>	Indication stating whether there was any drug use in the past or present.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:7.4.3	
<b>DCM::DefinitionCode</b>	SNOMED CT: 228366006 Finding related to drug misuse behaviour (finding)	
<b>DCM::ExampleValue</b>	Huidig gebruik	
<b>DCM::ValueSet</b>	DrugUseStatusCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.7.4.2
<b>Opties</b>		

«data»	RouteOfAdministration	
<b>Definitie</b>	The way the drugs are used.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:7.4.4	
<b>DCM::DefinitionCode</b>	SNOMED CT: 410675002 Route of administration	
<b>DCM::ExampleValue</b>	intravenous (spuiten)	
<b>DCM::ValueSet</b>	RouteOfAdministrationCodel ist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.7.4.3
<b>Opties</b>		

«document»	DrugUseStatusCodelist	
<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 0.40.2.7.4.2	
<b>DCM::ValueSetInclude OTH</b>	True	
<b>DCM::ValueSetStatus</b>	Active	

HCIM::ValueSetLanguage	--			
Opties				
<b>DrugsGebruikStatusCodelijst</b>			<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.7.4.2</b>	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Current drug user	417284009	SNOMED CT	2.16.840.1.113883.6.96	huidige drugsgebruiker
Does not misuse drugs	228367002	SNOMED CT	2.16.840.1.113883.6.96	gebruikt geen drugs
Has never misused drugs	228368007	SNOMED CT	2.16.840.1.113883.6.96	heeft nooit drugs gebruikt
Misused drugs in past (finding)	44870007	SNOMED CT	2.16.840.1.113883.6.96	heeft in het verleden drugs gebruikt

<b>«document»</b>	<b>RouteOfAdministrationCodelist</b>			
Definitie				
Datatype				
DCM::ValueSetBinding	Extensible			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.7.4.3			
DCM::ValueSetInclude OTH	True			
DCM::ValueSetStatus	Active			
HCIM::ValueSetLanguage	NL			
Opties				
<b>ToedieningswegCodelijst</b>			<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.7.4.3</b>	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
ORAAL	9	G-Standaard Toedieningswegen	2.16.840.1.113883.2.4.4.9	oraal
NASAAL	6	G-Standaard Toedieningswegen	2.16.840.1.113883.2.4.4.9	nasaal (snuiven)
INHALATIE	62	G-Standaard Toedieningswegen	2.16.840.1.113883.2.4.4.9	Inhalatie (roken)
INTRAVENEUS	5	G-Standaard Toedieningswegen	2.16.840.1.113883.2.4.4.9	Intraveneus (spuiten)

<b>«document»</b>	<b>TypeOfDrugOrMedicationCodelist</b>			
Definitie				
Datatype				
DCM::ValueSetBinding	Extensible			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.7.4.1			
DCM::ValueSetInclude OTH	True			
DCM::ValueSetStatus	Active			
HCIM::ValueSetLanguage	--			
Opties				
<b>DrugsOfGeneesmiddelSoortCodelijst</b>			<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.7.4.1</b>	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Heroin (substance)	387341002	SNOMED CT	2.16.840.1.113883.6.96	Heroïne

Benzodiazepine (substance)	372664007	SNOMED CT	2.16.840.1.113883.6.96	Benzodiazepine
Methadone (substance)	387286002	SNOMED CT	2.16.840.1.113883.6.96	Methadon
Hydroxybutyric acid (substance)	62821004	SNOMED CT	2.16.840.1.113883.6.96	GHB
Cocaine (substance)	387085005	SNOMED CT	2.16.840.1.113883.6.96	Cocaine
Cocaine freebase (substance)	229003004	SNOMED CT	2.16.840.1.113883.6.96	Crack, base coke
Methylenedioxymethamphetamine (substance)	288459003	SNOMED CT	2.16.840.1.113883.6.96	MDMA
Amphetamine (substance)	703842006	SNOMED CT	2.16.840.1.113883.6.96	Amfetamine, speed
Cannabis (substance)	398705004	SNOMED CT	2.16.840.1.113883.6.96	Cannabis, wiet marihuana, hasj
Hallucinogenic mushrooms (substance)	229006007	SNOMED CT	2.16.840.1.113883.6.96	Paddo's
Lysergic acid diethylamide (substance)	15698006	SNOMED CT	2.16.840.1.113883.6.96	LSD
Ketamine (substance)	373464007	SNOMED CT	2.16.840.1.113883.6.96	Ketamine
Phencyclidine (substance)	9721008	SNOMED CT	2.16.840.1.113883.6.96	PCP
Methamphetamine (substance)	387499002	SNOMED CT	2.16.840.1.113883.6.96	Crystal meth, methamphetamine
Anabolic steroid (substance)	111151007	SNOMED CT	2.16.840.1.113883.6.96	Anabole steroïde
Laxative (substance)	372800002	SNOMED CT	2.16.840.1.113883.6.96	Laxans
Buprenorphine (substance)	387173000	SNOMED CT	2.16.840.1.113883.6.96	Buprenorfine
Fentanyl (substance)	373492002	SNOMED CT	2.16.840.1.113883.6.96	Fentanyl
Barbiturate (substance)	372798009	SNOMED CT	2.16.840.1.113883.6.96	Barbituraat
Opioid receptor agonist (substance)	404642006	SNOMED CT	2.16.840.1.113883.6.96	Opiaten zoals morfine, codeïne, methadon, oxycodon en andere morfine-derivaten
4-Fluoroamphetamine (substance)	3347100014 6101	SNOMED CT	2.16.840.1.113883.6.96	4FA en/of 4-fmp
Oxycodone (substance)	55452001	SNOMED CT	2.16.840.1.113883.6.96	Oxycodon
Nitrous oxide (substance)	111132001	SNOMED CT	2.16.840.1.113883.6.96	Lachgas

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

## 1.8 Example Instances

Soort Middel	Drugs Gebruik Status	Start datum	Stop datum	Toedieningsweg	Hoeveelheid	Toelichting
XTC	misbruikt drugs	1985		oraal	2x per maand	Op feestjes en in uitgaanscircuit. Vroeger wat meer dan tegenwoordig.
Soort Middel	Drugs Gebruik Status	Start datum	Stop datum	Toedieningsweg	Hoeveelheid	Toelichting
Heroïne	heeft in het verleden drugs gebruikt	1970	1985	intraveneus	3x per week	

## 1.9 Instructions

The 'DrugOrMedicationTypeCodelist is extensible. If the drug in question is not on the codelist, the list can be extended with a code from the SNOMED CT hierarchy 'Substance; <105590001' or if necessary from the hierarchy 'Pharmaceutical/biologic product; < 373873005'.

## 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](mailto:info@nictiz.nl)  
[www.nictiz.nl](http://www.nictiz.nl)

