

# Health & Care Information Model: nl.zorg.part.InstructionsForUse-v1.0

Final

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# Content

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# 1. nl.zorg.part.InstructionsForUse-v1.0

DCM::CoderList	Projectgroep Medicatieproces
DCM::ContactInformation.Address	
DCM::ContactInformation.Name	
DCM::ContactInformation.Telecom	
DCM::ContentAuthorList	Projectgroep Medicatieproces
DCM::CreationDate	1-3-2017
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.9.12
DCM::KeywordList	
DCM::LifecycleStatus	Final
DCM::ModelerList	
DCM::Name	nl.zorg.part.GebruiksInstructie
DCM::PublicationDate	04-09-2017
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep Medicatieproces & Architectuurgroep Registratie aan de Bron
DCM::RevisionDate	04-09-2017
DCM::Superseeds	
DCM::Version	1.0
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (04-09-2017)

## 1.2 Concept

Instructions for the use or administration 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. This is a partial information model

## 1.3 Mindmap

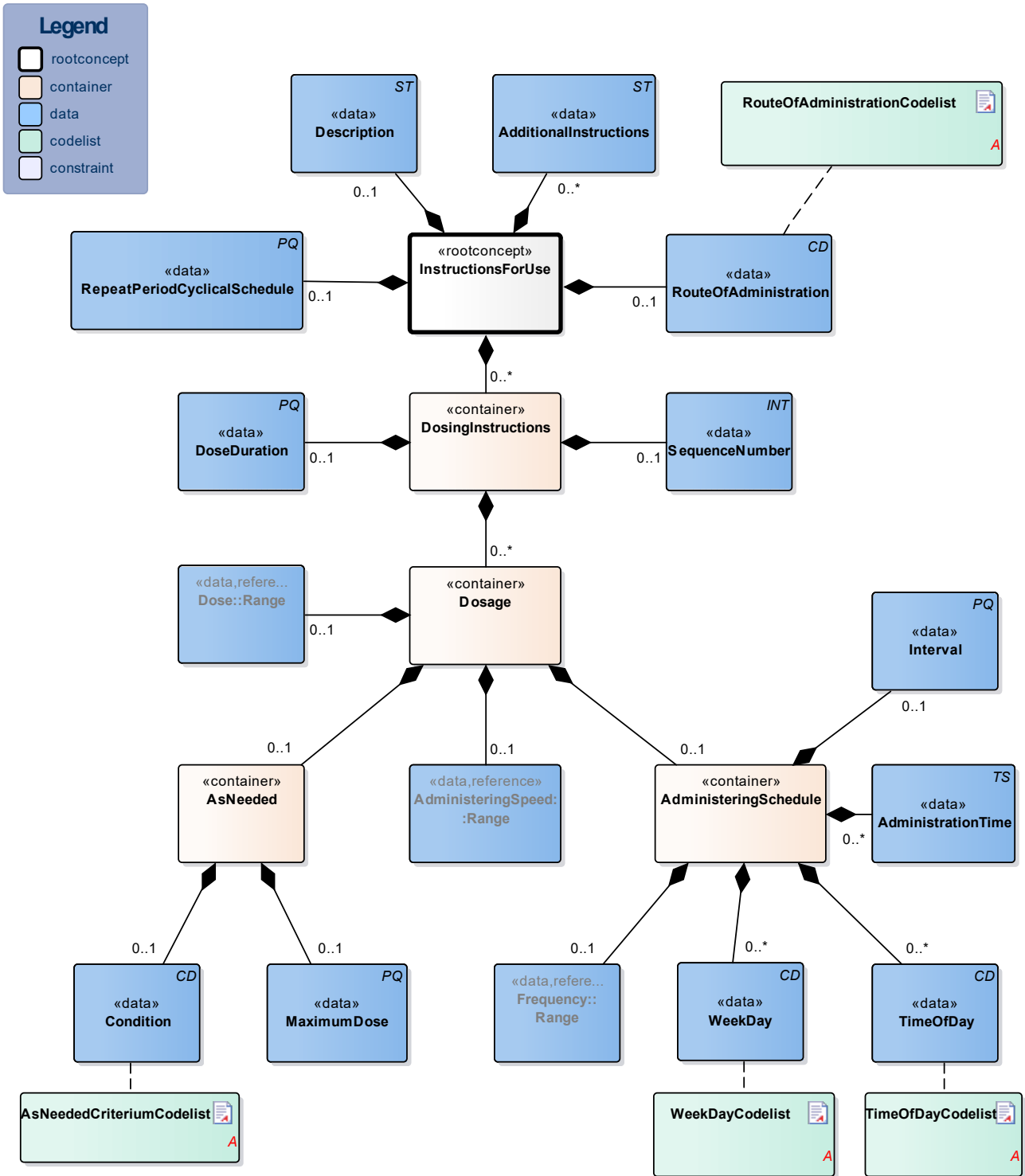
## 1.4 Purpose

InstructionsForUse gives an insight into the manner a drug is to be used.

## 1.5 Patient Population

## 1.6 Evidence Base

# 1.7 Information Model



<b>«rootconcept»</b>	<b>InstructionsForUse</b>
<b>Definitie</b>	Root concept of the InstructionsForUse partial information model. This root concept contains all data elements of the InstructionsForUse partial information model.
<b>Datatype</b>	
<b>DCM::ConceptId</b>	NL-CM:9.12.22504
<b>Opties</b>	

<b>«data»</b>	<b>AdditionalInstructions</b>
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<b>Definitie</b>	<p>The additional instructions contain extra information on the use of or considerations for the current prescription.</p> <p>This can also include all instructions for use. The text can come from the original "paper" medication prescription, but can also be generated from the coded information.</p> <p>This concept may contain more information than what is structurally coded in the information below, but may not conflict with it. The instructions may not conflict with other components of the request for administration.</p> <p>The instructions can also refer to an existing protocol.</p> <p>The G standard contains many texts that can support this attribute, in for example G standard table 362, which contains texts from the general practitioners' standard WCIA table 25. If desired, these texts can be used to structure this concept.</p>	
<b>Datatype</b>	ST	
<b>DCM::ConceptId</b>	NL-CM:9.12.19944	
<b>Opties</b>		

<b>«data»</b>	<b>Description</b>	
<b>Definitie</b>	Textual description of the complete instructions for use including the period of use.	
<b>Datatype</b>	ST	
<b>DCM::ConceptId</b>	NL-CM:9.12.9581	
<b>Opties</b>		

<b>«data»</b>	<b>RepeatPeriodCyclicalSchedule</b>	
<b>Definitie</b>	<p>The repeated period in a cyclical schedule (of one or more dosing instructions).</p> <p>Examples of a cyclical schedule: contraceptive pill (21 days, 1 pill 1x a day, then skip for 7 days, repeat), repeat period here is 28 days</p>	
<b>Datatype</b>	PQ	
<b>DCM::ConceptId</b>	NL-CM:9.12.22505	
<b>DCM::ExampleValue</b>	28 d	
<b>Opties</b>		

<b>«data»</b>	<b>RouteOfAdministration</b>	
<b>Definitie</b>	The route through which the medication is administered (oral, nasal, intravenous, etc.).	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:9.12.19941	
<b>DCM::ValueSet</b>	RouteOfAdministrationCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.12.1
<b>Opties</b>		

<b>«container»</b>	<b>DosingInstructions</b>	
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<b>Definitie</b>	Dosing instructions	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.12.22095	
<b>Opties</b>		

<b>«data»</b>	<b>DoseDuration</b>	
<b>Definitie</b>	The intended time duration for these dosing instructions.	
<b>Datatype</b>	PQ	
<b>DCM::ConceptId</b>	NL-CM:9.12.22506	
<b>DCM::ExampleValue</b>	8 weken	
<b>DCM::ExampleValue</b>	5 dagen	
<b>Opties</b>		

<b>«data»</b>	<b>SequenceNumber</b>	
<b>Definitie</b>	This indicates the sequence of the dosing instructions within the medication agreement.	
<b>Datatype</b>	INT	
<b>DCM::ConceptId</b>	NL-CM:9.12.22503	
<b>Opties</b>		

<b>«container»</b>	<b>Dosage</b>	
<b>Definitie</b>	<p>Container of the Dosage concept. This container contains all data elements of the Dosage concept.</p> <p>Instructions for the administrator to administer the medication (the patient themselves, a nurse or other aid). When taking stock of medication use, the dosage describes the pattern of use established by the patient.</p> <p>Once the dose schedule (distribution of doses over time) and the dose have been determined, then there should be one single instruction for use.</p> <p>Multiple <i>parallel</i> instructions for use can be included in the event of a changing dose within one day and in the event of a variable use frequency.</p> <p>Multiple <i>sequential</i> instructions for use can be included in the event of changing doses within one period and/or in the event of a changing dose schedule.</p>	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.12.19935	
<b>Opties</b>		

<b>«data»</b>	<b>AdministeringSpeed::Range</b>	
<b>Definitie</b>	<p>The administering speed is used in slow administration of liquid. In practice, the measuring unit is almost always ml/hour. Entering an interval (such as 0-10 ml/hour) is also a commonly used option.</p> <p>For example, with an administering speed of 10ml/hour:</p> <ul style="list-style-type: none"> <li>• amount = 10,</li> <li>• dose unit = ml</li> <li>• time unit = hour</li> </ul>	

<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.12.19942	
<b>DCM::ReferencedConceptId</b>	NL-CM:20.1.1	This is a reference to the rootconcept of the partial information model Range.
<b>Opties</b>		

<b>«data»</b>	<b>Dose::Range</b>	
<b>Definitie</b>	<p>The dose indicates the dose amount per administration.</p> <p>The dosage is described in the unit accompanying the product; usually, this is just a number of units or doses. Liquids and other divisible products will usually include a unit of volume (preferably "ml").</p> <p>In many cases, the prescriber will want to indicate the dose in units of weight of the active ingredient.</p> <p>If only the ingredient is included and not the product, then the amount of that ingredient will be given. Paracetamol 1000mg is equivalent to 2 Paracetamol 500mg tablets or units.</p> <p>The dosage is sometimes given as a calculation, in which the patient's body weight or body surface area is used as a parameter. The calculation is however no more than an aid in reaching a decision.</p> <p>In the event of constant administration, sometimes the dose is given in addition to the administration speed (infusion rate) (e.g. 20ml in a syringe or 500ml in a bag), but it is often also omitted.</p> <p>A general dosage recommendation such as 'Use according to protocol' or 'See instructions' can be sufficient. In that case, no dose is given.</p>	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.12.19940	
<b>DCM::ReferencedConceptId</b>	NL-CM:20.1.1	This is a reference to the rootconcept of the partial information model Range.
<b>Opties</b>		

<b>«container»</b>	<b>AsNeeded</b>	
<b>Definitie</b>	As needed means that the dose is only to be administered under certain conditions.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.12.22512	
<b>Opties</b>		

<b>«data»</b>	<b>Condition</b>	
<b>Definitie</b>	<p>The condition for administering medication can be:</p> <ul style="list-style-type: none"> <li>• a physiological measurement value (plasma glucose concentration, body temperature, blood pressure);</li> <li>• a symptom or other circumstance (in the event of a headache, or itch).</li> </ul> <p>Relevant B codes in Table 25 make up the list of values for coded entering of this concept. Also always include the textual description of that code. Physiological measurement values or other conditions that do not occur in the B codes in Tabel25 do not need to be coded. These can be expressed in</p>	

	free text in the Description concept.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:9.12.19945	
<b>DCM::ValueSet</b>	AsNeededCriteriumCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.12.4
<b>Opties</b>		

<b>«data»</b>	<b>MaximumDose</b>	
<b>Definitie</b>	A maximum dose indicates the maximum duration a product can be used with an 'as needed' prescription.	
<b>Datatype</b>	PQ	
<b>DCM::ConceptId</b>	NL-CM:9.12.19946	
<b>DCM::ExampleValue</b>	maximaal 200 ml per week	
<b>DCM::ExampleValue</b>	maximaal 6 stuks per dag	
<b>Opties</b>		

<b>«container»</b>	<b>AdministeringSchedule</b>	
<b>Definitie</b>	<p>Specifications of the times at which the medication is to be administered. This is indicated as follows:</p> <ul style="list-style-type: none"> <li>• Time(s) (16:00) or indications ("before meals") at which the medication is to be taken each day.</li> <li>• A specific number of times the medication is to be taken each day ("3x a day"), indicated with the frequency</li> <li>• A time interval between consecutive doses ("Every 2 hours", "every 3 days"), indicated with the word Interval.</li> <li>• Combined periods with an interval and duration ("1 daily for three out of four weeks: the pill schedule")</li> </ul> <p>If a certain medication is not to be taken daily, the aforementioned can be combined with daily indications:</p> <ul style="list-style-type: none"> <li>• One or more week days on which the medication is to be administered (e.g. "Monday, Wednesday, Friday")</li> <li>• "3x a week", "2x a month".</li> </ul> <p>The specified administration "infinite" is automatically to be repeated until:</p> <ul style="list-style-type: none"> <li>• The end date and time has been reached</li> <li>• The total administration duration has been reached (14 days)</li> <li>• A specific amount of administrations has been reached ("20 doses"), to be entered in the Frequency concept.</li> </ul>	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.12.19948	
<b>Opties</b>		

<b>«data»</b>	<b>Frequency::Range</b>	
<b>Definitie</b>	The frequency indicates the number of dose moments per time unit, usually per day. If this frequency is included, then the Interval will not have	



	<p>been included. Usually, frequency comprises both amount and time unit (3 times a day), but it can occur without the time unit (single use).</p> <p>In that case, a reasonable distribution over the day is expected, but exact times are not given. This is left to the patient. It is the most common manner of extramural prescription. In the case of Baxter packs and intramural care, such a prescription is used to draw up a (location-specific) outline for distribution times (logistics).</p> <p>The time unit of the frequency must be the same as how it is indicated in the textual description of the dose.</p> <p>Example: for a '2x a day...' dose:</p> <ul style="list-style-type: none"> <li>◆</li> <li>◆ amount = 2</li> <li>◆ time unit = 'day'.</li> </ul> <p>for a '3x a week...' dose:</p> <ul style="list-style-type: none"> <li>◆</li> <li>◆ amount = 3</li> <li>◆ time unit = 'week'.</li> </ul>	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.12.19949	
<b>DCM::ReferencedConceptId</b>	NL-CM:20.1.1	This is a reference to the rootconcept of the partial information model Range.
<b>Opties</b>		

<b>«data»</b>	<b>WeekDay</b>	
<b>Definitie</b>	WeekDay indicates a pattern of doses on fixed week days.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:9.12.19952	
<b>DCM::ExampleValue</b>	Maandag	
<b>DCM::ValueSet</b>	WeekDayCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.12.2
<b>Opties</b>		

<b>«data»</b>	<b>TimeOfDay</b>	
<b>Definitie</b>	Time of day: morning, afternoon, evening, night.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:9.12.19953	
<b>DCM::ExampleValue</b>	Ochtend	
<b>DCM::ValueSet</b>	TimeOfDayCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.12.3
<b>Opties</b>		

<b>«data»</b>	<b>AdministrationTime</b>	
<b>Definitie</b>	The time of administration is a specific time of day (on the clock). This time	

	usually isn't (intended to be) exact. There can be multiple administering times in one day.
	The ideal time of administration can also be entered as a time of day (morning, afternoon, evening, night-time). The administration time is then to be left empty, and the time of day can be entered in the TimeOfDay concept.
<b>Datatype</b>	TS
<b>DCM::ConceptId</b>	NL-CM:9.12.19951
<b>DCM::ExampleValue</b>	07:30
<b>Opties</b>	

<b>«data»</b>	<b>Interval</b>
<b>Definitie</b>	Interval indicates the time between dose times. If this is included, then the <i>Frequency</i> will not have been included.  Examples: every 4 hours, every 3 weeks.  The times can now be chosen freely, but distribution throughout the day is more precise, and the interval between times is important (e.g. in the case of antibiotics) In the case of Baxter packs and intramural care, such a prescription is used to draw up a (location-specific) outline for distribution times (logistics).
<b>Datatype</b>	PQ
<b>DCM::ConceptId</b>	NL-CM:9.12.19950
<b>Opties</b>	

<b>«document»</b>	<b>AsNeededCriteriumCodelist</b>
<b>Definitie</b>	
<b>Datatype</b>	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.12.4
<b>Opties</b>	

<b>ZonodigCriteriumCodelijst</b>			<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.12.4</b>	
<b>Concept Name</b>	<b>Concept Code</b>	<b>Code System Name</b>	<b>Code System OID</b>	<b>Description</b>
Bij een aanval	1022	WCIAv3 Tabel 25 B-codes	2.16.840.1.113883.2.4.4.5	Bij een aanval
Bij benauwdheid	1023	WCIAv3 Tabel 25 B-codes	2.16.840.1.113883.2.4.4.5	Bij benauwdheid
Bij diarree	1024	WCIAv3 Tabel 25 B-codes	2.16.840.1.113883.2.4.4.5	Bij diarree
Bij pijn	1028	WCIAv3 Tabel 25 B-codes	2.16.840.1.113883.2.4.4.5	Bij pijn
Bij jeuk	1121	WCIAv3 Tabel 25 B-codes	2.16.840.1.113883.2.4.4.5	Bij jeuk
Zo nodig	1137	WCIAv3 Tabel 25 B-codes	2.16.840.1.113883.2.4.4.5	Zo nodig
Bij hoofdpijn	1144	WCIAv3 Tabel 25 B-codes	2.16.840.1.113883.2.4.4.5	Bij hoofdpijn
Bij koorts	1145	WCIAv3 Tabel 25 B-codes	2.16.840.1.113883.2.4.4.5	Bij koorts
Bij hoge koorts	1146	WCIAv3 Tabel 25 B-codes	2.16.840.1.113883.2.4.4.5	Bij hoge koorts
Bij koorts en/of pijn	1147	WCIAv3 Tabel 25 B-codes	2.16.840.1.113883.2.4.4.5	Bij koorts en/of pijn
Bij hoest	1387	WCIAv3 Tabel 25 B-codes	2.16.840.1.113883.2.4.4.5	Bij hoest
Overig	OTH	NullFlavor	2.16.840.1.113883.5.1008	Overig
Geen Informatie	NI	NullFlavor	2.16.840.1.113883.5.1008	Geen Informatie

«document»		RouteOfAdministrationCodelist	
Definitie			
Datatype			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.9.12.1		
Opties			
MedicatieToedieningswegCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.12.1	
Codes	Coding Syst. Name	Coding System OID	
Alle waarden	G-Standaard Toedieningswegen	2.16.840.1.113883.2.4.4.9	

«document»		TimeOfDayCodelist	
Definitie			
Datatype			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.9.12.3		
Opties			

DagdeelCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.12.3	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
During the morning	73775008	SNOMED CT	2.16.840.1.113883.6.96	's ochtends
During the afternoon	255213009	SNOMED CT	2.16.840.1.113883.6.96	's middags
During the evening	3157002	SNOMED CT	2.16.840.1.113883.6.96	's avonds
During the night	2546009	SNOMED CT	2.16.840.1.113883.6.96	's nachts

«document»		WeekDayCodelist		
Definitie				
Datatype				
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.9.12.2			
Opties				
WeekdagCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.12.2		
Concept Name	Concept Code	Code System Name	Code System OID	Description
Monday	307145004	SNOMED CT	2.16.840.1.113883.6.96	maandag
Tuesday	307147007	SNOMED CT	2.16.840.1.113883.6.96	dinsdag
Wednesday	307148002	SNOMED CT	2.16.840.1.113883.6.96	woensdag
Thursday	307149005	SNOMED CT	2.16.840.1.113883.6.96	donderdag
Friday	307150005	SNOMED CT	2.16.840.1.113883.6.96	vrijdag
Saturday	307151009	SNOMED CT	2.16.840.1.113883.6.96	zaterdag
Sunday	307146003	SNOMED CT	2.16.840.1.113883.6.96	zondag

## 1.8 Example Instances

Gebruiksaanwijzing			
Omschrijving	Doseeraanwijzing	Toedieningschema   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
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

### 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

This Health and Care Information Model (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

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