

# Health & Care Information Model:

nl.zorg.part.PharmaceuticalProduct-v2.1.2

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# Content

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# 1. nl.zorg.part.PharmaceuticalProduct-v2.1.2

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	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.9.7
DCM::KeywordList	FarmaceutischProduct
DCM::LifecycleStatus	Final
DCM::ModelerList	Architectuurgroep Registratie aan de Bron
DCM::Name	nl.zorg.part.FarmaceutischProduct
DCM::PublicationDate	01-09-2020
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep Medicatieproces & Architectuurgroep Registratie aan de Bron
DCM::RevisionDate	31-12-2017
DCM::Supersedes	nl.zorg.part.FarmaceutischProduct-v2.1.1
DCM::Version	2.1.2
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (04-09-2017)

Publicatieversie 2.0 (31-12-2017)

Bevat: ZIB-472, ZIB-618.

Publicatieversie 2.1 (06-07-2019)

Bevat: ZIB-781, ZIB-788, ZIB- 792, ZIB-795, ZIB-796, ZIB-797.

Publicatieversie 2.1.1 (31-01-2020)

Bevat: ZIB-789.

Publicatieversie 2.1.2 (01-09-2020)

Bevat: ZIB-911.

## 1.2 Concept

The prescribed substance is usually medication. However, medical aids and bandages can also be prescribed and supplied via the pharmacy. Food and blood products do not strictly belong in the medication category, but can be prescribed and supplied by a pharmacy as well.

A type of medication can be indicated with a **single code**. That code can be chosen from several possible coding systems (concretely: GPK, PRK, HPK or article numbers). Correct use of these codes in the software systems will sufficiently record the composition of the product used, making a complete product specification unnecessary.

In addition to a primary code, **alternative codes** from other coding systems can also be entered (so that the GPK can be sent along in the event that the patient was registered based on PRK, for example).

Entering multiple ingredients will enable you to display a compound product. If one of the composite parts is liquid, the dosage will be given in milliliters; otherwise it will be given in 'units'.

In that case, the **composition of the medication** can be specified implicitly (with the use of a medication code) or explicitly, for example by listing the (active) ingredient(s) of the medication.

**Magistral prescriptions** can be entered as well. This can be done by means of the option listed above to enter coded ingredients and/or by entering the composition and preparation method as free text. This is a partial information model

## 1.3 Mindmap

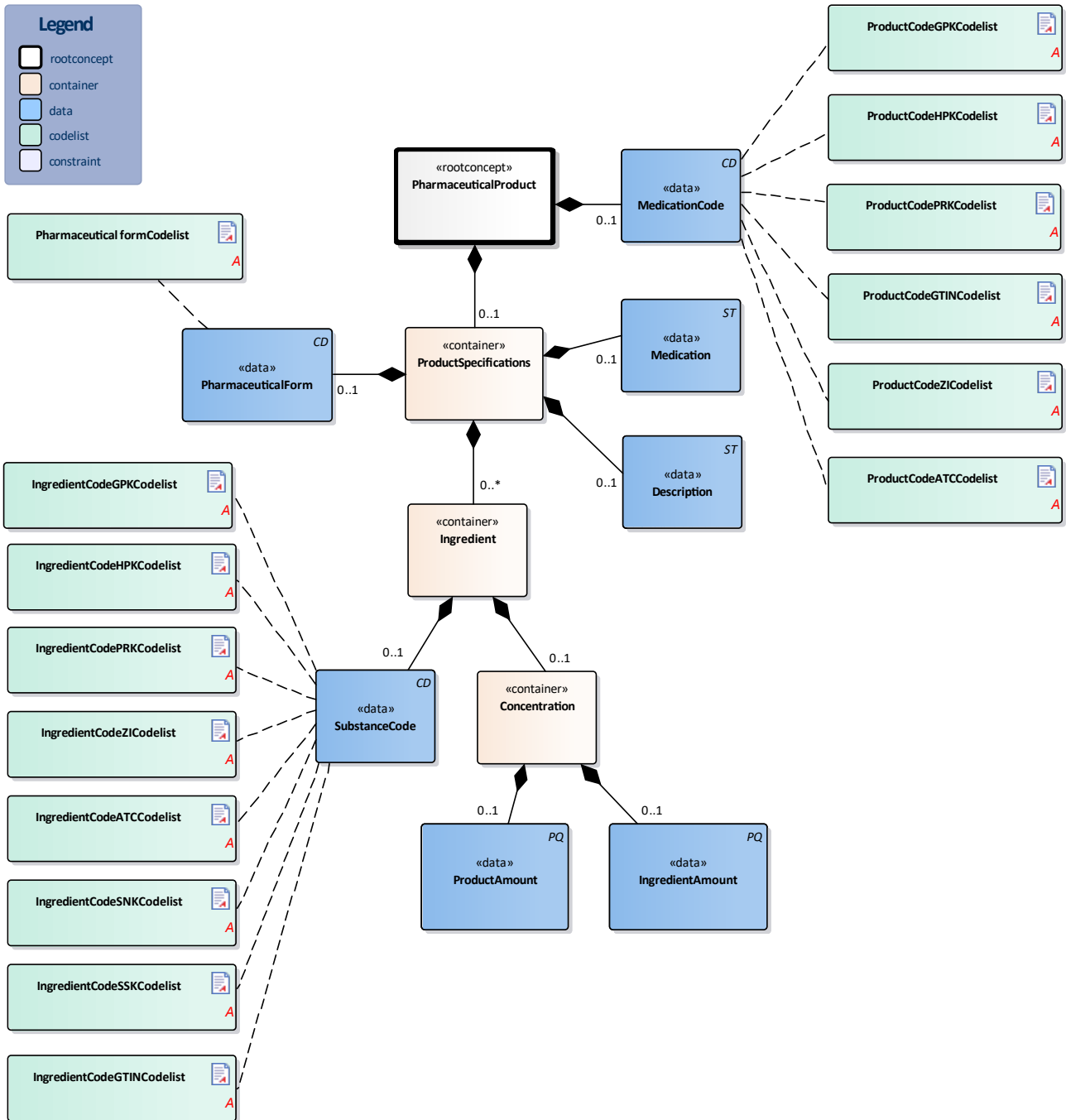
## 1.4 Purpose

The purpose of Product is to unambiguously describe the medication to be used.

## 1.5 Patient Population

## 1.6 Evidence Base

## 1.7 Information Model



<b>«rootconcept»</b>	<b>PharmaceuticalProduct</b>
<b>Definitie</b>	<p>Root concept of the PharmaceuticalProduct partial information model. This root concept contains all data elements of the PharmaceuticalProduct partial information model.</p> <p>The prescribed product is usually a medicine. However, medical aids and bandages can also be prescribed and supplied via the pharmacy. Strictly speaking, food and blood products do not belong in the medication category, but can be prescribed and supplied by a pharmacy as well.</p> <p>A type of medication can be indicated with a <b>single code</b>. That code can be chosen from several possible coding systems (concretely: GPK, PRK, HPK or article numbers). Correct use of these codes in the software systems will sufficiently record the composition of the product used, making a complete product specification unnecessary.</p> <p>In addition to a primary code, <b>alternative codes</b> from other coding systems</p>

	<p>can also be entered (so that the GPK can be sent along in the event that the patient was registered based on PRK, for example).</p> <p>Entering multiple ingredients will enable you to display a compound product.</p> <p>In that case, the <b>composition of the medication</b> can be specified implicitly (with the use of a medication code) or explicitly, for example by listing the (active) substance(s) of the medication.</p> <p><b>Prescriptions to be prepared by the pharmacy</b> can be entered as well. This can be done by means of the option listed above to enter coded ingredients and/or by entering the composition and preparation method as free text.</p>
<b>Datatype</b>	
<b>DCM::ConceptId</b>	NL-CM:9.7.19926
<b>Opties</b>	

«data»	MedicationCode
<b>Definitie</b>	<p>Coding medication in the Netherlands is done on the basis of the G standard (issued by Z-index), which is filled under the direction of KNMP.</p> <p>The coded medication can be expressed as:</p> <ul style="list-style-type: none"> <li>• GTIN International Article Number</li> <li>• ZI-nummer (2.16.840.1.113883.2.4.4.8)</li> <li>• Trade product code (HPK)</li> <li>• Prescription code (PRK)</li> <li>• Generic product code (GPK)</li> <li>• Anatomic Therapeutic Classification code (ATC)</li> <li>• Substance Name Code (SNK)</li> <li>• Substance Name Code, in combination with Route of Administration (SSK)</li> <li>• SNOMED CT code</li> </ul> <p>The GTIN enables identification of the product including its origin with a barcode.</p> <p>The ZI number represents the tradeproduct and the package size.</p> <p>The HPK is the code for the trade product (with the brand name) as used per dose/per time the medication is taken (1 pill, 1 puff, 1ml)</p> <p>The PRK contains als GPK information supplemented with information needed to prescribe the right product. this level is intended to facilitate generic prescription of drugs.</p> <p>The GPK defines the pharmaceutical characteristics of a product: ingredients, strengths, units, pharmaceutical form and route of administration.</p> <p>The Substance Name Code (SNK) is the (active) compound.</p> <p>Further information about the G-Standaard levels see <a href="https://www.z-index.nl">https://www.z-index.nl</a></p> <p>So called 90.000.000 numbers are used in local IT systems. These numbers shall not be used for external communication. In the this is necessary only the description (not the code) may be included. This is in accordance with national agreements (Nictiz Standard).</p>
<b>Datatype</b>	CD
<b>DCM::ConceptId</b>	NL-CM:9.7.19927
<b>DCM::ExampleValue</b>	PRK 67903 PARACETAMOL TABLET 500MG
<b>DCM::ValueSet</b>	ProductCodeHPKCodelist OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.5

<b>DCM::ValueSet</b>	ProductCodeATCCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.7
<b>DCM::ValueSet</b>	ProductCodeGPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.6
<b>DCM::ValueSet</b>	ProductCodeZICodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.1
<b>DCM::ValueSet</b>	ProductCodeGTINCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.2
<b>DCM::ValueSet</b>	ProductCodePRKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.3
<b>Opties</b>		

<b>«container»</b>	<b>ProductSpecifications</b>	
<b>Definitie</b>	Container of the ProductSpecifications concept. This container contains all data elements of the ProductSpecifications concept.  Product specifications are required if the product code is not sufficient to ascertain the active substances and strength.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.7.19928	
<b>Opties</b>		

<b>«data»</b>	<b>PharmaceuticalForm</b>	
<b>Definitie</b>	The pharmaceutical form indicates the form of the medication. Examples include: tablet, suppository, infusion liquid, ointment. If the product has a GPK code in the G standard, the form will be known in the G standard. For products without a code (free text, preparation by the pharmacy), the means of administration can be entered.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:9.7.19931	
<b>DCM::ExampleValue</b>	230 (TABLET)	
<b>DCM::ValueSet</b>	Pharmaceutical formCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.8
<b>Opties</b>		

<b>«data»</b>	<b>Medication</b>	
<b>Definitie</b>	There is no code for medication entered in free text. In these cases, enter the complete description.	
<b>Datatype</b>	ST	
<b>DCM::ConceptId</b>	NL-CM:9.7.19929	
<b>DCM::ExampleValue</b>	PARACETAMOL 500MG TABLET	
<b>Opties</b>		

<b>«data»</b>	<b>Description</b>	
<b>Definitie</b>	A textual description of the type of medication (including relevant properties of the composition and preparation method if possible), which is only used if no coded indication from the G Standard is available (magistral preparation).	
<b>Datatype</b>	ST	
<b>DCM::ConceptId</b>	NL-CM:9.7.19784	
<b>Opties</b>		

<b>«container»</b>	<b>Ingredient</b>	
<b>Definitie</b>	Container of the Ingredient concept. This container contains all data	

	<p>elements of the Ingredient concept.</p> <p>A product contains one or more active substances and excipients. These are usually determined by the product code. For medication prepared or compounded by the local pharmacy, each ingredient must be entered separately.</p> <p>The active substances play an important role, as they:</p> <p>a) determine the pharmacotherapeutic effect of the medication and b) serve as the basis for the indication of the strength of the medication (e.g. 200mg).</p>	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.7.19932	
<b>DCM::ExampleValue</b>	captopril	
<b>Opties</b>		

<b>«data»</b>	<b>SubstanceCode</b>	
<b>Definitie</b>	<p>Active substance or excipient.</p> <p>Here, the same codes can be used as for the ProductCode (for dilutions and compounds in particular), but now, the ATC, SSK and SNK codes can also be used to indicate a substance (to list ingredients of local products prepared by the pharmacy).</p> <ul style="list-style-type: none"> <li>• GTIN International Article Number</li> <li>• KNMP article number</li> <li>• Trade product code (HPK)</li> <li>• Prescription code (PRK)</li> <li>• Generic product code (GPK)</li> <li>• ATC (anatomic therapeutic classification)</li> <li>• SSK (substance name code with route of administration)</li> <li>• SNK (substance name code)</li> </ul> <p>For further explanation about ATC see <a href="https://www.whocc.no/atc/structure_and_principles/">https://www.whocc.no/atc/structure_and_principles/</a></p>	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:9.7.19934	
<b>DCM::ExampleValue</b>	SNK 28045	CAPTOPRIL
<b>DCM::ValueSet</b>	IngredientCodeGPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.9
<b>DCM::ValueSet</b>	IngredientCodeHPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.10
<b>DCM::ValueSet</b>	IngredientCodePRKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.11
<b>DCM::ValueSet</b>	IngredientCodeZICodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.12
<b>DCM::ValueSet</b>	IngredientCodeGTINCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.16
<b>DCM::ValueSet</b>	IngredientCodeATCCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.13
<b>DCM::ValueSet</b>	IngredientCodeSNKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.14
<b>DCM::ValueSet</b>	IngredientCodeSSKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.15
<b>Opties</b>		

<b>«container»</b>	<b>Concentration</b>	
<b>Definitie</b>	<p>The relative amount of this ingredient in this product.</p> <p>Calculation of Concentration = Ingredient Amount ÷ Product Amount.</p>	



	This could be a concentration if the medication is dissolved in liquid, for example.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:9.7.19933	
<b>DCM::ExampleValue</b>	25mg/stuk of 50IE/ml of 200mg/500ml	
<b>Opties</b>		

<b>«data»</b>	<b>IngredientAmount</b>	
<b>Definitie</b>	The amount and unit of this ingredient. This is the numerator for the calculation of the concentration. The unit should be selected from the G-Standard (Table 902).	
<b>Datatype</b>	PQ	
<b>DCM::ConceptId</b>	NL-CM:9.7.22277	
<b>DCM::ExampleValue</b>	5 ml 20 mg	
<b>Opties</b>		

<b>«data»</b>	<b>ProductAmount</b>	
<b>Definitie</b>	Amount of the product. This is the denominator for the calculation of the concentration. Optionally a translation to NHG table Gebruiksvoorschriften (Table 25) is also allowed.	
<b>Datatype</b>	PQ	
<b>DCM::ConceptId</b>	NL-CM:9.7.22278	
<b>DCM::ExampleValue</b>	200 ml 500 mg	
<b>Opties</b>		

<b>«document»</b>	<b>ProductCodeZICodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.1	
<b>Opties</b>		

<b>ProductCodeZICodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.1</b>
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-Standaard Artikelen (ook KNMP-nummer, ATKODE)	2.16.840.1.113883.2.4.4.8

<b>«document»</b>	<b>ProductCodeGTINCodeList</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.2	
<b>Opties</b>		

<b>ProductCodeGTINCodeList</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.2</b>
Codes	Coding Syst. Name	Coding System OID
Alle waarden	Global Trade Item Number (GTIN)	1.3.160

<b>«document»</b>	<b>ProductCodePRKCodeList</b>	
<b>Definitie</b>		

<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.3	
<b>Opties</b>		
<b>ProductCodePRKCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.3</b>
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-Standaard Voorschrijfproducten (PRK)	2.16.840.1.113883.2.4.4.10

<b>«document»</b>	<b>ProductCodeHPKCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.5	
<b>Opties</b>		
<b>ProductCodeHPKCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.5</b>
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-Standaard Handels Product Kode (HPK)	2.16.840.1.113883.2.4.4.7

<b>«document»</b>	<b>ProductCodeGPKCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.6	
<b>Opties</b>		
<b>ProductCodeGPKCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.6</b>
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-Standaard Generieke Product Kode (GPK)	2.16.840.1.113883.2.4.4.1

<b>«document»</b>	<b>ProductCodeATCCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.7	
<b>Opties</b>		
<b>ProductCodeATCCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.7</b>
Codes	Coding Syst. Name	Coding System OID
Alle waarden	Anatomic Therapeutic Classification (ATC)	2.16.840.1.113883.6.73

<b>«document»</b>	<b>Pharmaceutical formCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	

<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.8	
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<b>Opties</b>		
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<b>FarmaceutischeVormCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.8</b>
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-Standaard Farmaceutische vormen	2.16.840.1.113883.2.4.4.11

<b>«document»</b>	<b>IngredientCodeGPKCodelist</b>	
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<b>Definitie</b>		
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<b>Datatype</b>		
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<b>DCM::ValueSetBinding</b>	Required	
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<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.9	
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<b>Opties</b>		
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<b>IngredientCodeGPKCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.9</b>
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Codes	Coding Syst. Name	Coding System OID
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Alle waarden	G-Standaard Generieke Product Kode (GPK)	2.16.840.1.113883.2.4.4.1
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<b>«document»</b>	<b>IngredientCodeHPKCodelist</b>	
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<b>Definitie</b>		
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<b>Datatype</b>		
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<b>DCM::ValueSetBinding</b>	Required	
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<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.10	
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<b>Opties</b>		
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<b>IngredientCodeHPKCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.10</b>
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Codes	Coding Syst. Name	Coding System OID
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Alle waarden	G-Standaard Handels Product Kode (HPK)	2.16.840.1.113883.2.4.4.7
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<b>«document»</b>	<b>IngredientCodePRKCodelist</b>	
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<b>Definitie</b>		
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<b>Datatype</b>		
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<b>DCM::ValueSetBinding</b>	Required	
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<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.11	
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<b>Opties</b>		
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<b>IngredientCodePRKCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.11</b>
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Codes	Coding Syst. Name	Coding System OID
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Alle waarden	G-Standaard Voorschrijfproducten (PRK)	2.16.840.1.113883.2.4.4.10
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<b>«document»</b>	<b>IngredientCodeZICodelist</b>	
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<b>Definitie</b>		
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<b>Datatype</b>		
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<b>DCM::ValueSetBinding</b>	Required	
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<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.12	
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<b>Opties</b>		
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IngredientCodeZICodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.12
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-Standaard Artikelen (ook KNMP-nummer, ATKODE)	2.16.840.1.113883.2.4.4.8

«document»	IngredientCodeATCCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.13	
Opties		

IngredientCodeATCCodelist		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.13
Codes	Coding Syst. Name	Coding System OID
Alle waarden	Anatomic Therapeutic Classification (ATC)	2.16.840.1.113883.6.73

«document»	IngredientCodeSNKodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.14	
Opties		

IngredientCodeSNKodelist		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.14
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-standaard Stofnaamcode (SNK)	2.16.840.1.113883.2.4.4.1.750

«document»	IngredientCodeSSKodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.15	
Opties		

IngredientCodeSSKodelist		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.15
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-standaard Stofnaamcode i.c.m. toedieningsweg (SSK)	2.16.840.1.113883.2.4.4.1.725

«document»	IngredientCodeGTINodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.16	
Opties		

IngredientCodeGTINodelist		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.16
Codes	Coding Syst. Name	Coding System OID

Alle waarden	Global Trade Item Number (GTIN)	1.3.160
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Legend	
Definitie	
Datatype	
Opties	

## 1.8 Example Instances

Afgesproken geneesmiddel
Farmaceutischproduct
Lisinopril tablet 10mg
Methotrexaat injvlst 25mg/ml 0,6 ml

## 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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