

# Health & Care Information Model: nl.zorg.part.PharmaceuticalProduct-v2.0

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# Content

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# 1. nl.zorg.part.PharmaceuticalProduct-v2.0

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	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	01-10-2018
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep Medicatieproces & Architectuurgroep Registratie aan de Bron
DCM::RevisionDate	31-12-2017
DCM::Superseeds	nl.zorg.part.Product-v1.0
DCM::Version	2.0
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (04-09-2017)

Publicatieversie 2.0 (31-12-2017)

Bevat: ZIB-472, ZIB-618.

## 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**

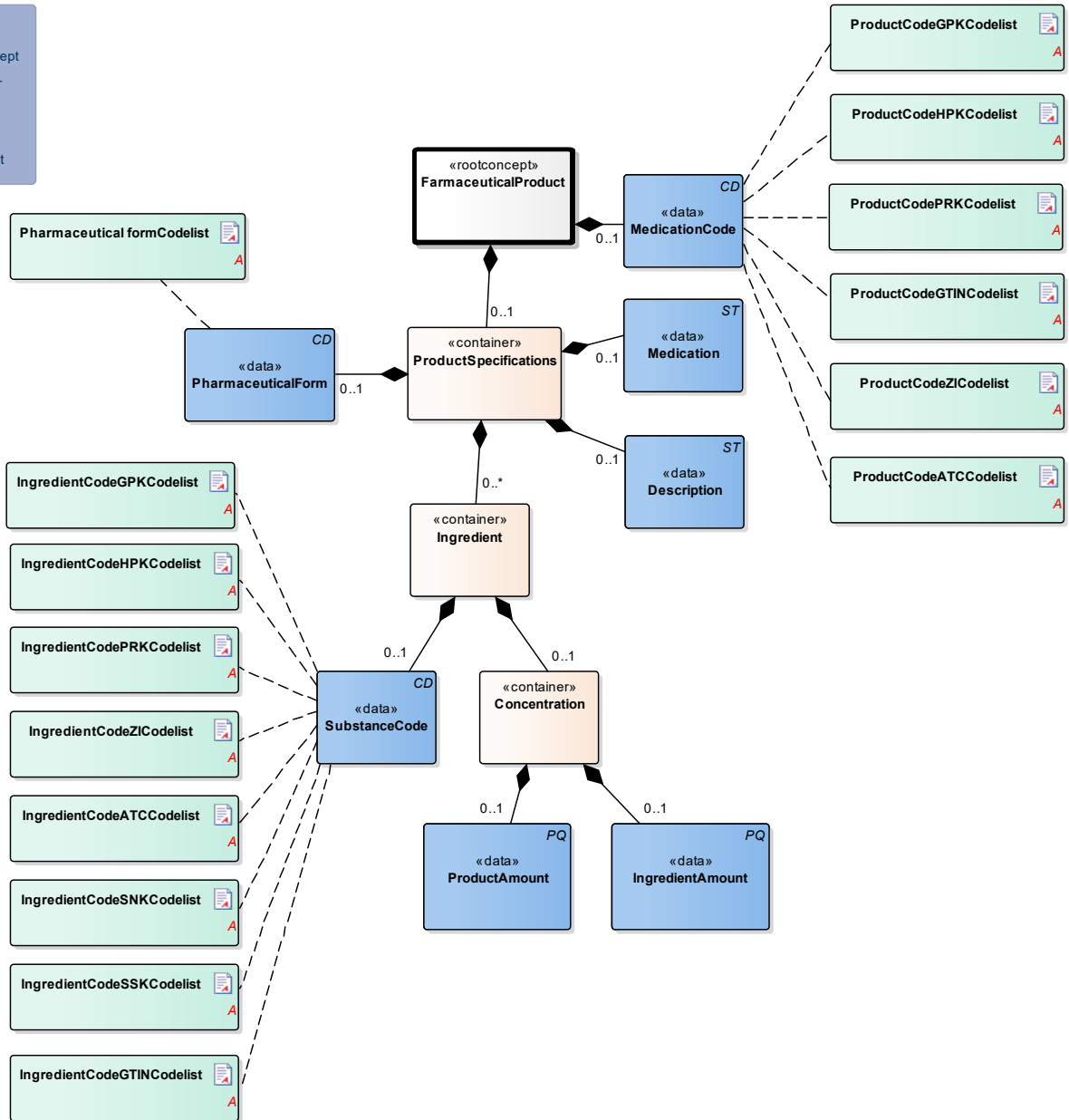
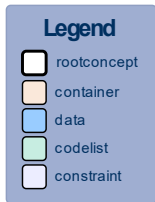
## **1.4 Purpose**

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**



«rootconcept»	FarmaceuticalProduct
<b>Definitie</b>	<p>Root concept of the FarmaceuticalProduct partial information model. This root concept contains all data elements of the FarmaceuticalProduct 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 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</p>

	<p>product. If one of the composite parts is liquid, the dosage will be given in milliliters; otherwise it will be given in 'units'.</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>	

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

<b>«data»</b>	<b>PharmaceuticalForm</b>
<b>Definitie</b>	<p>The pharmaceutical form indicates the form of the medication in accordance with the route of administration. Examples include: tablet, suppository, infusion liquid, ointment. If the product has a generic 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.</p>
<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>MedicationCode</b>
<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>• KNMP article number = ATKODE (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</li> </ul>

	<p>(SSK)</p> <ul style="list-style-type: none"> <li>90.000.000 number (individual code setting) (or similar from the facility)</li> </ul> <p>The GTIN enables identification of the product including its origin with a barcode.</p> <p>The ATKODE is the number with which wholesalers link the article to pharmacy systems (e.g. a box with 3 strips of 10 tablets).</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 codes for the same product as the HPK does, but is not linked to a manufacturer (no brand name, no characteristics such as color, geometrical shape etc.). This code will enable a generic prescription, while still defining which trade product can be taken (e.g. a 200ml bag).</p> <p>The generic product code defines the composition of a product, and is sufficient for recording the prescription, but not the order.</p> <p>The prescription code (PRK) was developed and added to the older generic (GPK) and supplier-specific (HPK, ATKODE) coding to enable a generic product to be entered without listing a specific brand on the one hand, and to enable providing enough information to support the pharmacy supplying it on the other.</p> <p>The Substance Name Code (SNK) and the Substance Name Code, in combination with Route of Administration (SSK) are used to prescribe at a more generic level.</p> <p>The GTIN coding is used for the implementation of a barcode scanning standard and to be able to trace the origin of the product.</p> <p>The 90.000.000 number is used in accordance with national agreements.</p>	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:9.7.19927	
<b>DCM::ExampleValue</b>	55026 (CARBASALAATCALCIUM TABLET 100MG)	
<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>	ProductCodeGTINCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.2
<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>	ProductCodeGPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.6
<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>	ProductCodePRKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.3
<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>	
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<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>	<p>Container of the Ingredient concept. This container contains all data 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> <ol style="list-style-type: none"> <li>determine the pharmacotherapeutic effect of the medication and</li> <li>serve as the basis for the indication of the strength of the medication (e.g. 200mg).</li> </ol>	
<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>The ATC is an international classification of pharmaceutical substances without a reference to specific products on the market. Therefore, the ATC code of a generic product will not contain a reference to a certain dose, pharmaceutical form or route of administration; it will only contain a reference to the ingredients (not the amount/concentration/strength).</p>	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:9.7.19934	



<b>DCM::ExampleValue</b>	ATC C09BA01	CAPTOPRIL
<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>	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>	IngredientCodeHPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.10
<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>	IngredientCodeSSKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.15
<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>	IngredientCodeATCCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.13
<b>Opties</b>		

<b>«container»</b>	<b>Concentration</b>	
<b>Definitie</b>	<p>The relative amount of this ingredient in this product. Calculation of Concentration = Ingredient Amount ÷ Product Amount.</p> <p>This could be a concentration if the medication is dissolved in liquid, for example.</p>	
<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>	<p>The amount of this ingredient. This is the numerator for the calculation of the concentration. The unit should be selected from the G-Standard (Table 902).</p>	
<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>	<p>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.</p>	
<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>	Extensible	
<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>	Extensible	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.2	
<b>Opties</b>		
<b>ProductCodeGTINCodelijst</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>	Extensible	
<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>	Extensible	
<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>	Extensible	
<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>	Extensible	
<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>	Extensible	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.8	
<b>Opties</b>		
<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>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Extensible	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.9	
<b>Opties</b>		
<b>IngredientCodeGPKCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.9</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>IngredientCodeHPKCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Extensible	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.10	
<b>Opties</b>		
<b>IngredientCodeHPKCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.10</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

«document»	IngredientCodePRKCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.11	
Opties		

IngredientCodePRKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.7.11
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-Standaard Voorschrijfproducten (PRK)	2.16.840.1.113883.2.4.4.10

«document»	IngredientCodeZICodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.12	
Opties		

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	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.13	
Opties		

IngredientCodeATCCodelijst		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»	IngredientCodeSNKCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.14	
Opties		

IngredientCodeSNKCodelijst		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»		IngredientCodeSSKCodeList
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.15	
Opties		
IngredientCodeSSKCodeLijst		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»		IngredientCodeGTINCodeList
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.9.7.16	
Opties		
IngredientCodeGTINCodeLijst		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

## 1.8 Example Instances

Afgesproken geneesmiddel
Farmaceutischproduct
Lisinopril tablet 10mg
Methotrexaat injvst 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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