

Health & Care Information Model:

nl.zorg.Vaccination-v4.0

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1. nl.zorg.Vaccination-v4.0

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	5-10-2012
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.11.1
DCM::KeywordList	vaccinatie, inenting
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DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.zorg.Vaccinatie
DCM::PublicationDate	01-09-2020
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DCM::RevisionDate	01-07-2019
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DCM::Version	4.0
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-124, ZIB-277, ZIB-278, ZIB-279, ZIB-280, ZIB-281, ZIB-282, ZIB-308, ZIB-353.

Incl. algemene wijzigingsverzoeken:

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

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-453.

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-564.

Publicatieversie 3.2 (01-10-2018)

Bevat: ZIB-664.

Publicatieversie 4.0 (06-07-2019)

Bevat: ZIB-821.

1.2 Concept

Immunization can be defined as “Generating natural immunity against pathogens by means of vaccination

(active immunization) or by administering immunoglobulins (passive immunization)”.

Only the (administered and planned) vaccinations are included in this information model. Administering immunoglobulins is part of the medication overview. Vaccinations have lifelong relevance.

Most vaccinations are carried out in the Netherlands as part of the RVP (Rijksvaccinatieprogramma, National Immunisation Program). RVP information is especially important for children.

Vaccinations are also relevant for adult patients such as transplant patients, dialysis patients and patients with a post-splenectomy status. In addition, there are specific indications for the vaccination of risk groups, such as travelers, professionals who come into contact with blood or patients with wounds, weakened immune systems or heightened risk.

1.3 Mindmap

1.4 Purpose

Documenting vaccinations that have already taken place in a patient or are planned is important for things such as the diagnostics of infectious diseases and the indication and planning of (re)vaccinations.

1.5 Patient Population

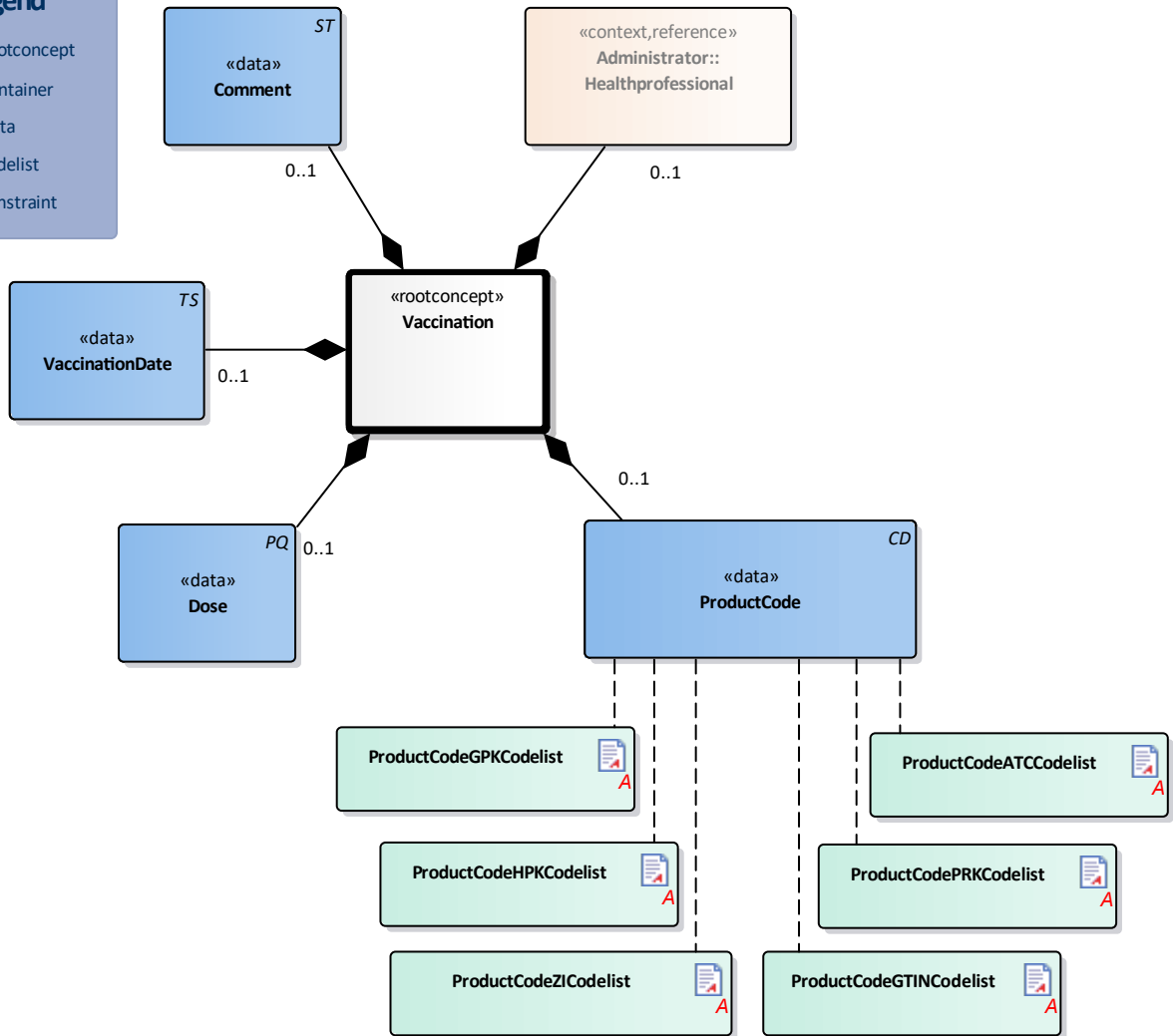
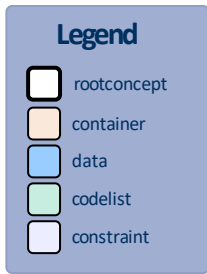
1.6 Evidence Base

Starting with version 4.0, the information model not only describes historical vaccinations, but also planned ones. Clinical reminders are also modeled with this information model. As a result, the concept PreferredDateForRevaccination has withdrawn. This date will now be the (vague) date of a planned vaccination.

Vaccination documentation contains far fewer data elements than medication documentation. Medication concerns a running order process with many participants (patient, prescriber, pharmacy, administrator) and complex, very diverse details.

Vaccinations are only about what was or will be administered and when.

1.7 Information Model



«rootconcept»	Vaccination
Definitie	Root concept of the Vaccination information model. This root concept contains all data elements of the Vaccination information model.
Datatype	
DCM::ConceptId	NL-CM:11.1.1
Opties	

«data»	ProductCode
Definitie	The product code of the vaccine administered. There are several possible code systems for documenting the product code. If the vaccination data is registered based on an anamnesis, coding with the ATC code is preferred. In all cases it concerns those products that fall under ATC group J07 (vaccines).
Datatype	CD
DCM::ConceptId	NL-CM:11.1.2
DCM::ExampleValue	HEPATITIS A, GEINACTIVEERD, INTACT VIRUS (ATC:J07BC02)
DCM::ValueSet	ProductCodePRKCodelist OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.1
DCM::ValueSet	ProductCodeATCCodelist OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.4
DCM::ValueSet	ProductCodeGTINCodelist OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.5

DCM::ValueSet	ProductCodeHPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.2
DCM::ValueSet	ProductCodeZICodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.6
DCM::ValueSet	ProductCodeGPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.3
Opties		

«data»	Dose	
Definitie	The amount of product administered shown in milliliters. In most cases, the entire product is administered; in some cases, a described part of the product is administered.	
Datatype	PQ	
DCM::ConceptId	NL-CM:11.1.4	
DCM::ExampleValue	1 ml	
Opties		

«data»	VaccinationDate	
Definitie	Date (and if possible time) that the vaccine was or will be administered. In the case of a planned re-vaccination, a vague date (month, year) is allowed (Clinical reminder). If a planned vaccination cannot be administered before a certain date, the date stated (vague or not) must indicate this.	
Datatype	TS	
DCM::ConceptId	NL-CM:11.1.3	
DCM::ExampleValue	2012-10-05	
Opties		

«context»	Administrator::Healthprofessional	
Definitie	The healthcare provider and/or organization where or by whom the immunization was done or will be done.	
Datatype		
DCM::ConceptId	NL-CM:11.1.6	
DCM::ReferencedConceptId	NL-CM:17.1.1	This is a reference to the rootconcept of information model HealthProfessional
Opties		

«data»	Comment	
Definitie	Free text explanation. Examples of commonly used explanations are: - "Vaccination according to the National Immunisation Program". - "Not according to the National Immunisation Program", followed by further explanation. - "Unknown"	
Datatype	ST	
DCM::ConceptId	NL-CM:11.1.7	
DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	
DCM::ExampleValue	Vaccinatie volgens Rijksvaccinatieprogramma	
Opties		

«document»	ProductCodeATCCodelist	
Definitie		
Datatype		

DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.11.1.4	
Opties		
ProductCodeATCCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.4
Codes	Coding Syst. Name	Coding System OID
Alle waarden	Anatomic Therapeutic Classification (ATC)	2.16.840.1.113883.6.73

«document»	ProductCodeGPKCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.11.1.3	
Opties		
ProductCodeGPKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.3
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-Standaard Generieke Product Kode (GPK)	2.16.840.1.113883.2.4.4.1

«document»	ProductCodeGTINCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.11.1.5	
Opties		
ProductCodeGTINCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.5
Codes	Coding Syst. Name	Coding System OID
Alle waarden	Global Trade Item Number (GTIN)	1.3.160

«document»	ProductCodeHPKCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.11.1.2	
Opties		
ProductCodeHPKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.2
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»	ProductCodePRKCodelist	
Definitie		

Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.11.1.1	
Opties		
ProductCodePRKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.1
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-Standaard Voorschrijfproducten (PRK)	2.16.840.1.113883.2.4.4.10

«document»	ProductCodeZICodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.11.1.6	
Opties		
ProductCodeZICodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.6
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

	Legend
Definitie	
Datatype	
Opties	

1.8 Example Instances

ProductCode	Vaccinatie Datum	Toelichting	GewensteDatum Hervaccinatie	Toediener
DKTP/HIB vaccin	05-03-1999	Volgens Rijksvaccinatie programma.		

ProductCode	Vaccinatie Datum	Toelichting	GewensteDatum Hervaccinatie	Toediener
Hepatitis A vaccin	03-06-2012	Bezoek aan Guatemala.	2014	OrganisatieNaam GG&GD Nijmegen

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. G-standaard [Online] Beschikbaar op: <http://www.z-index.nl/> [Geraadpleegd: 23 februari 2015].
2. Rijksvaccinatieprogramma [Online] Beschikbaar op: <http://www.rivm.nl/Onderwerpen/Onderwerpen/R/Rijksvaccinatieprogramma> [Geraadpleegd: 23 februari 2015].

1.16 Traceability to other Standards

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