

# **Health & Care Information Model:**

## **nl.zorg.Vaccination-v6.0**

Status: Final

Release status: Prepublished

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# 1. nl.zorg.Vaccination-v6.0

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
DCM::LifecycleStatus	Final
DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.zorg.Vaccinatie
DCM::PublicationDate	15-10-2023
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	18-07-2023
DCM::Supersedes	nl.zorg.Vaccinatie-v5.0
DCM::Version	6.0
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.

Publicatieversie 4.1 (01-12-2021)

Bevat: ZIB-1542.

Publicatieversie 5.0 (10-06-2022)

Bevat: ZIB-1447, ZIB-1654, ZIB-1669.

## **1.2 Concept**

Immunisation can be defined as "The generation of natural immunity against pathogens by vaccination (active immunisation) or by administration of immunoglobulins (passive immunisation)".

Only vaccinations (administered and scheduled) are included in this building block. The administration of immunoglobulins is part of the medication overview. Vaccinations have lifelong relevance.

Most vaccinations are carried out in the Netherlands as part of the National Vaccination Programme (RVP).

Vaccinations are also relevant in adult patients such as transplant patients, dialysis patients and patients with status after spleen aspiration. In addition, there are specific indications for vaccination of high-risk groups, such as travellers, professionals who come into contact with blood or patients with injuries, impaired immunity or increased risk.

## **1.3 Mindmap**

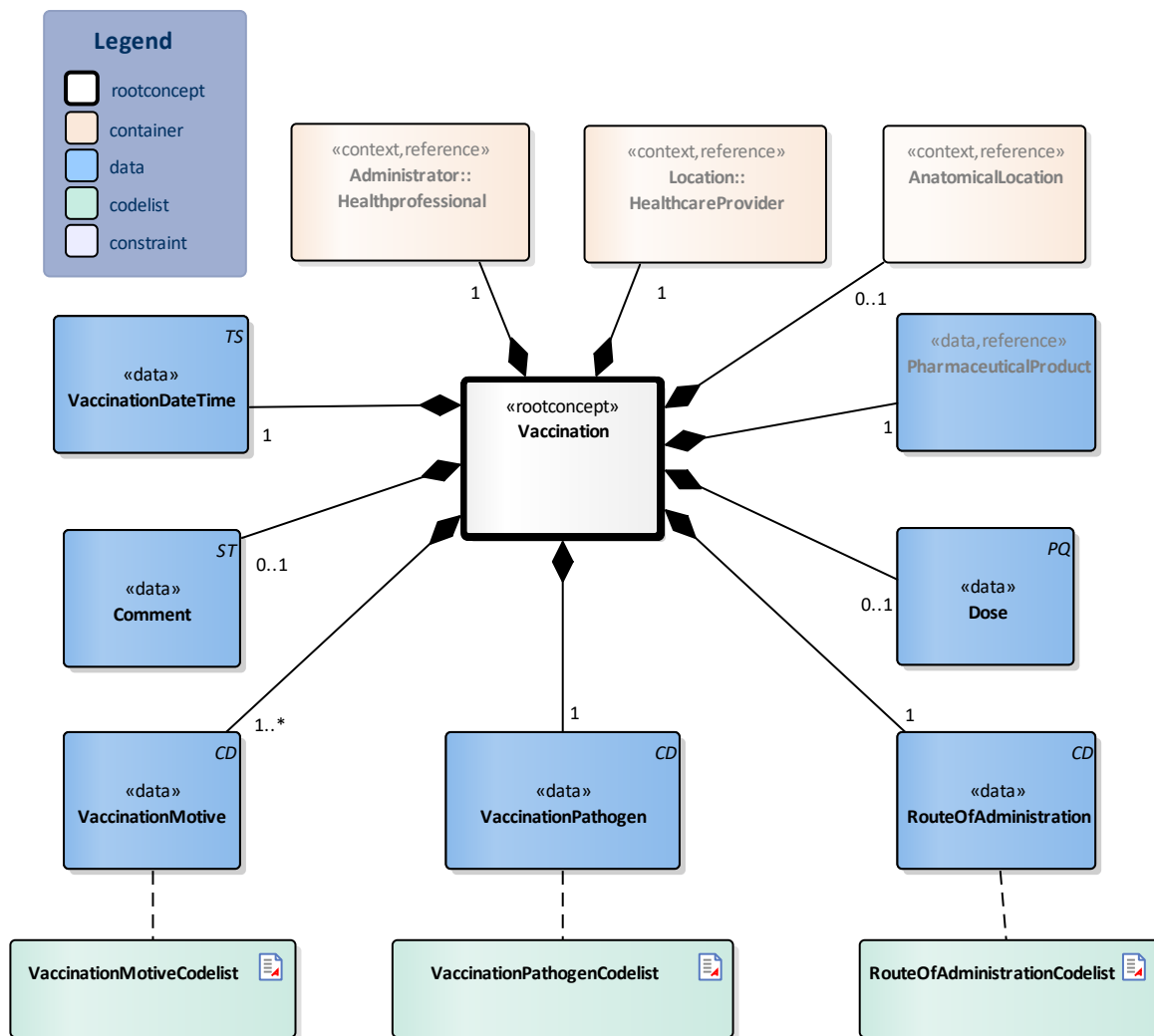
## **1.4 Purpose**

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**

## **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»	VaccinationDateTime	
Definitie	Date (and if possible time) that the vaccine is administered. In the case of a historical vaccination, a vague date (month, year) is allowed.	
Datatype	TS	
DCM::ConceptId	NL-CM:11.1.3	
DCM::ExampleValue	2012-10-05	
Opties		

«context»	Location::HealthcareProvider	
Definitie	The healthcare provider where the vaccination is or will be carried out.	
Datatype		
DCM::ConceptId	NL-CM:11.1.8	
DCM::ReferencedConceptId	NL-CM:17.2.1	This is a reference to the rootconcept of information model HealthcareProvider.
Opties		

«context»	Administrator::Healthprofessional	
Definitie	The healthcare provider by whom the vaccination was done or will be	

	done.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:11.1.6	
<b>DCM::ReferencedConceptId</b>	NL-CM:17.1.1	This is a reference to the rootconcept of information model HealthProfessional
<b>Opties</b>		

<b>«data»</b>	<b>PharmaceuticalProduct</b>	
<b>Definitie</b>	The pharmaceutical product of the administered vaccination	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:11.1.9	
<b>DCM::ReferencedConceptId</b>	NL-CM:9.7.1	This is a reference to the rootconcept of information model PharmaceuticalProduct.
<b>Opties</b>		

<b>«context»</b>	<b>AnatomicalLocation</b>	
<b>Definitie</b>	The location on the body where the vaccination was administered.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:11.1.13	
<b>DCM::ReferencedConceptId</b>	NL-CM:20.7.1	This is a reference to the rootconcept of information model AnatomicalLocation.
<b>Opties</b>		

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

<b>«data»</b>	<b>Comment</b>	
<b>Definitie</b>	Comment on the vaccination	
<b>Datatype</b>	ST	
<b>DCM::ConceptId</b>	NL-CM:11.1.7	
<b>DCM::DefinitionCode</b>	LOINC: 48767-8 Annotation comment	
<b>DCM::ExampleValue</b>	Vaccinatie volgens Rijksvaccinatieprogramma	
<b>Opties</b>		

<b>«data»</b>	<b>RouteOfAdministration</b>	
<b>Definitie</b>	The route by which the vaccine is came into the body.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:11.1.12	
<b>DCM::DefinitionCode</b>	SNOMED CT: 410675002 Route of administration	
<b>DCM::ValueSet</b>	RouteOfAdministrationCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.3
<b>Opties</b>		

<b>«data»</b>	<b>VaccinationMotive</b>	
<b>Definitie</b>	Displays the trigger based on what the vaccine was administered.	
<b>Datatype</b>	CD	

<b>DCM::ConceptId</b>	NL-CM:11.1.10	
<b>DCM::DefinitionCode</b>	SNOMED CT: 159941000146109 Reason for vaccination	
<b>DCM::ValueSet</b>	VaccinationMotiveCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.1
<b>Opties</b>		

<b>«data»</b>	<b>VaccinationPathogen</b>	
<b>Definitie</b>	The disease or pathogeen against what the vaccination is primarily given.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:11.1.11	
<b>DCM::ValueSet</b>	VaccinationPathogenCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.2
<b>Opties</b>		

<b>«document»</b>	<b>RouteOfAdministrationCodelist</b>		
<b>Definitie</b>			
<b>Datatype</b>			
<b>DCM::ValueSetBinding</b>	Extensible		
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.6 0.40.2.11.1.3		
<b>HCIM::ValueSetLanguage</b>	NL		
<b>Opties</b>			
<b>ToedieningswegCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.3</b>	
<b>Codes</b>		<b>Coding Syst. Name</b>	<b>Coding System OID</b>
Alle waarden		G-Standaard Toedieningswegen	2.16.840.1.113883.2.4.4.9

<b>«document»</b>	<b>VaccinationMotiveCodelist</b>			
<b>Definitie</b>				
<b>Datatype</b>				
<b>DCM::ValueSetBinding</b>	Extensible			
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.6 0.40.2.11.1.1			
<b>HCIM::ValueSetLanguage</b>	NL			
<b>Opties</b>				
<b>VaccinatieAanleidingCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.1</b>		
<b>Concept Name</b>	<b>Concept Code</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>	<b>Description</b>
Vaccination needed as part of immunization programme	159741000146107	SNOMED CT	2.16.840.1.113883.6.96	Vaccinatieprogramma
Vaccination needed as part of national immunization programme	159731000146104	SNOMED CT	2.16.840.1.113883.6.96	Rijksvaccinatieprogramma
Occupational vaccination needed	159721000146101	SNOMED CT	2.16.840.1.113883.6.96	Immunisatie nodig voor werk
Elective immunization for international travel	14747002	SNOMED CT	2.16.840.1.113883.6.96	Reizigersvaccinatie

«document»	VaccinationPathogenCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Extensible			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.11.1.2			
HCIM::ValueSetLanguage	NL			
Opties				
VaccinatieZiekteverwekkerCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.2	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Influenza	6142004	SNOMED CT	2.16.840.1.113883.6.96	Influenza
Pneumococcal infectious disease	16814004	SNOMED CT	2.16.840.1.113883.6.96	Infectieziekte door Streptococcus pneumoniae
COVID-19	840539006	SNOMED CT	2.16.840.1.113883.6.96	COVID-19
Inflammatory disease of liver	128241005	SNOMED CT	2.16.840.1.113883.6.96	Hepatitis
Tetanus	76902006	SNOMED CT	2.16.840.1.113883.6.96	Tetanus

	Legend
Definitie	
Datatype	
Opties	

## 1.8 Example Instances

Vaccinatie DatumTijd	Locatie	FarmaceutischProduct	Toedieningsweg	VaccinatieAanleiding
	Zorgaanbieder	ProductCode		
05-03-1999	GGZ NHN	DKTP/HIB vaccin	Intramusculair	Rijksvaccinatie programma.

## 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

## 1.17 Disclaimer

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