

# Zorginformatiebouwsteen: nl.zorg.Vaccination-v3.1

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Nictiz 



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## 1. nl.zorg.Vaccination-v3.1

|                                 |  |
|---------------------------------|--|
| 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            | 04-09-2017   |
| DCM::PublicationStatus          | Prepublished   |
| DCM::ReviewerList               | Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron |
| DCM::RevisionDate               | 04-09-2017   |
| DCM::Superseeds                 | nl.zorg.Vaccinatie-v3.0  |
| DCM::Version                    | 3.1  |
| 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.

### 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 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 is important for things such as the diagnostics of infectious diseases and the indication and planning of (re)vaccinations.

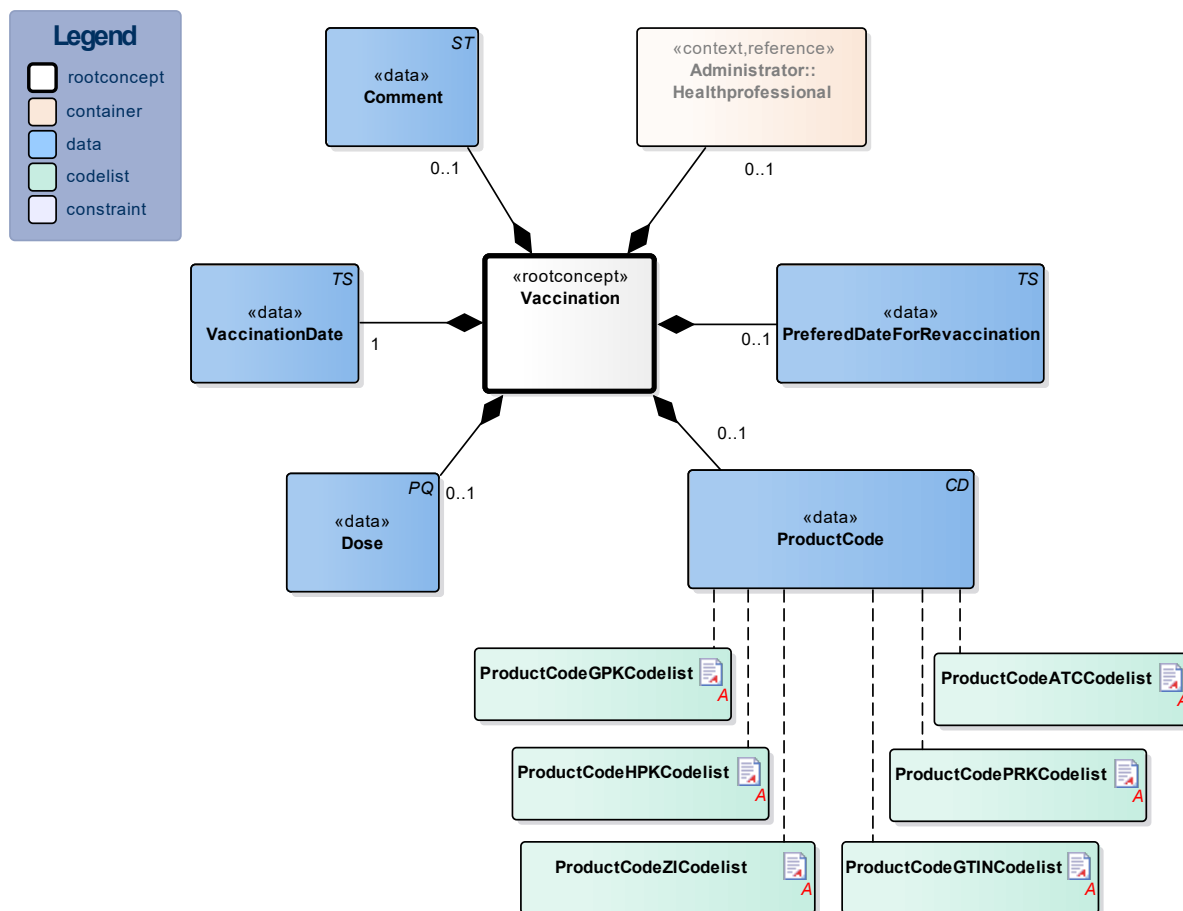
## **1.5 Patient Population**

## **1.6 Evidence Base**

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 administered and when.

## **1.7 Information Model**



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

| «data»                   | ProductCode  |
|--------------------------|--|
| <b>Definitie</b>         | The product code of the vaccine administered.<br><br>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). |
| <b>Datatype</b>          | CD   |
| <b>DCM::ConceptId</b>    | NL-CM:11.1.2   |
| <b>DCM::ExampleValue</b> | HEPATITIS A,<br>GEINACTIVEERD, INTACT<br>VIRUS (ATC:J07BC02)   |
| <b>DCM::ValueSet</b>     | ProductCodeATCCodelist<br>OID:<br>2.16.840.1.113883.2.4.3.11.60.40.2.11.1.4  |

|                      |                         |   |
|----------------------|-------------------------|---|
| <b>DCM::ValueSet</b> | ProductCodePRKCodelist  | OID:<br>2.16.840.1.113883.2.4.3.11.60.40.2.11.1.1 |
| <b>DCM::ValueSet</b> | ProductCodeGTINCodelist | OID:<br>2.16.840.1.113883.2.4.3.11.60.40.2.11.1.5 |
| <b>DCM::ValueSet</b> | ProductCodeGPKCodelist  | OID:<br>2.16.840.1.113883.2.4.3.11.60.40.2.11.1.3 |
| <b>DCM::ValueSet</b> | ProductCodeZICodelist   | OID:<br>2.16.840.1.113883.2.4.3.11.60.40.2.11.1.6 |
| <b>DCM::ValueSet</b> | ProductCodeHPKCodelist  | OID:<br>2.16.840.1.113883.2.4.3.11.60.40.2.11.1.2 |
| <b>Opties</b>        |                         |   |

|                          |   |  |
|--------------------------|---|--|
| <b>«data»</b>            | <b>Dose</b>   |  |
| <b>Definitie</b>         | 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. |  |
| <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>VaccinationDate</b>   |  |
| <b>Definitie</b>         | Date (and if possible time) that the vaccine was administered. |  |
| <b>Datatype</b>          | TS   |  |
| <b>DCM::ConceptId</b>    | NL-CM:11.1.3   |  |
| <b>DCM::ExampleValue</b> | 2012-10-05   |  |
| <b>Opties</b>            |  |  |

|                       |  |  |
|-----------------------|--|--|
| <b>«data»</b>         | <b>PreferredDateForRevaccination</b>   |  |
| <b>Definitie</b>      | Date on which this vaccination will have to be repeated according to the author's information. |  |
| <b>Datatype</b>       | TS   |  |
| <b>DCM::ConceptId</b> | NL-CM:11.1.5   |  |
| <b>Opties</b>         |  |  |

|                                 |   |  |
|---------------------------------|---|--|
| <b>«context»</b>                | <b>Administrator::Healthprofessional</b>  |  |
| <b>Definitie</b>                | The healthcare provider and/or organization where or by whom the immunization was 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>Comment</b> |  |
|---------------|----------------|--|

|                            |   |  |
|----------------------------|---|--|
| <b>Definitie</b>           | Free text explanation.<br><br>Examples of commonly used explanations are:<br>- "Vaccination according to the National Immunisation Program".<br>- "Not according to the National Immunisation Program", followed by further explanation.<br>- "Unknown" |  |
| <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>«document»</b>              | <b>ProductCodeATCCodelist</b>             |   |
| <b>Definitie</b>               |   |   |
| <b>Datatype</b>                |   |   |
| <b>DCM::ValueSetId</b>         | 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.4 |   |
| <b>Opties</b>                  |   |   |
| <b>ProductCodeATCCodelijst</b> |   | <b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.4</b> |
| <b>Codes</b>                   | <b>Coding Syst. Name</b>                  | <b>Coding System OID</b>                              |
| Alle waarden                   | Anatomic Therapeutic Classification (ATC) | 2.16.840.1.113883.6.73                                |

|                                |   |   |
|--------------------------------|---|---|
| <b>«document»</b>              | <b>ProductCodeGPKCodelist</b>             |   |
| <b>Definitie</b>               |   |   |
| <b>Datatype</b>                |   |   |
| <b>DCM::ValueSetId</b>         | 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.3 |   |
| <b>Opties</b>                  |   |   |
| <b>ProductCodeGPKCodelijst</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 Generieke Product Kode (GPK)  | 2.16.840.1.113883.2.4.4.1                             |

|                                 |   |   |
|---------------------------------|---|---|
| <b>«document»</b>               | <b>ProductCodeGTINCodelist</b>            |   |
| <b>Definitie</b>                |   |   |
| <b>Datatype</b>                 |   |   |
| <b>DCM::ValueSetId</b>          | 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.5 |   |
| <b>Opties</b>                   |   |   |
| <b>ProductCodeGTINCodelijst</b> |   | <b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.11.1.5</b> |

| Codes        | Coding Syst. Name               | Coding System OID |
|--------------|---------------------------------|-------------------|
| Alle waarden | Global Trade Item Number (GTIN) | 1.3.160           |

| «document»              |   | ProductCodeHPKCodelist                         |
|-------------------------|---|--|
| Definitie               |   |  |
| Datatype                |   |  |
| 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::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::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                      |

## 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                        | 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

### 1.17 Disclaimer

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