

# Health & Care Information Model:

## nl.zorg.Patient-v4.3

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# Content

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# 1. nl.zorg.Patient-v4.3

|                                 |                                                                                |
|---------------------------------|--------------------------------------------------------------------------------|
| 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               | 14-6-2012                                                                      |
| DCM::DeprecatedDate             |                                                                                |
| DCM::DescriptionLanguage        | nl                                                                             |
| DCM::EndorsingAuthority.Address |                                                                                |
| DCM::EndorsingAuthority.Name    | PM                                                                             |
| DCM::EndorsingAuthority.Telecom |                                                                                |
| DCM::Id                         | 2.16.840.1.113883.2.4.3.11.60.40.3.0.1                                         |
| DCM::KeywordList                | Patient, zorgverlener, contact                                                 |
| DCM::LifecycleStatus            | Final                                                                          |
| DCM::ModelerList                | Kerngroep Registratie aan de Bron                                              |
| DCM::Name                       | nl.zorg.Patient                                                                |
| DCM::PublicationDate            | 24-04-2024                                                                     |
| DCM::PublicationStatus          | Published                                                                      |
| DCM::ReviewerList               | Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron |
| DCM::RevisionDate               | 21-03-2024                                                                     |
| DCM::Supersedes                 | nl.zorg.Patient-v4.2                                                           |
| DCM::Version                    | 4.3                                                                            |
| HCIM::PublicationLanguage       | EN                                                                             |

## 1.1 Revision History

Publicatieversie 1.0 (15-02-2013)

-

Publicatieversie 1.1 (01-07-2013)

Bevat: ZIB-33.

Publicatieversie 2.0 (01-04-2015)

Bevat: ZIB-62, ZIB-67, ZIB-96, ZIB-97, ZIB-98, ZIB-99, ZIB-100, ZIB-102, ZIB-121, ZIB-257, ZIB-258, ZIB-259, ZIB-260, ZIB-261, ZIB-262, ZIB-303, ZIB-308, ZIB-349, ZIB-350, ZIB-351, ZIB-353.

Incl. algemene wijzigingsverzoeken:

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

Publicatieversie 2.0.1 (22-05-2015)

Bevat: ZIB-385, ZIB-374.

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-453.

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-429, ZIB-430, ZIB-442, ZIB-471, ZIB-491, ZIB-564.

Publicatieversie 3.1.1 (01-10-2018)

Bevat: ZIB-647.

Publicatieversie 3.2 (01-09-2020)

Bevat: ZIB-961, ZIB-1029, ZIB-1189.

Publicatieversie 4.0 (01-12-2021)

Bevat: ZIB-1239, ZIB-1465.

Publicatieversie 4.1 (10-06-2022)

Bevat: ZIB-1650.

Publicatieversie 4.2 (15-10-2023)

Bevat: ZIB-1693.

Publicatieversie 4.3 (15-04-2024)

Bevat: ZIB-1670, ZIB-2144.

## 1.2 Concept

A person who receives medical, psychological, paramedical or nursing care. In some care settings, the term client or participant is used instead of the term patient.

## 1.3 Mindmap

## 1.4 Purpose

Recording relevant information to identify the patient for administrative purposes and process support.

## 1.5 Patient Population

## 1.6 Evidence Base

Although the term Patient is not used in all care settings, it has been decided not to change the name of the zib to Person as the overall name for Patient, Client, Participant, etc. because the concept Person is broader than the concept referred to here. Healthprofessionals and contact persons are ultimately also Persons. The name and address information is based on the information set of the Municipal Personal Records Database (GBA) and on the Dutch Implementation Guide: HL7v3 Basic Components.

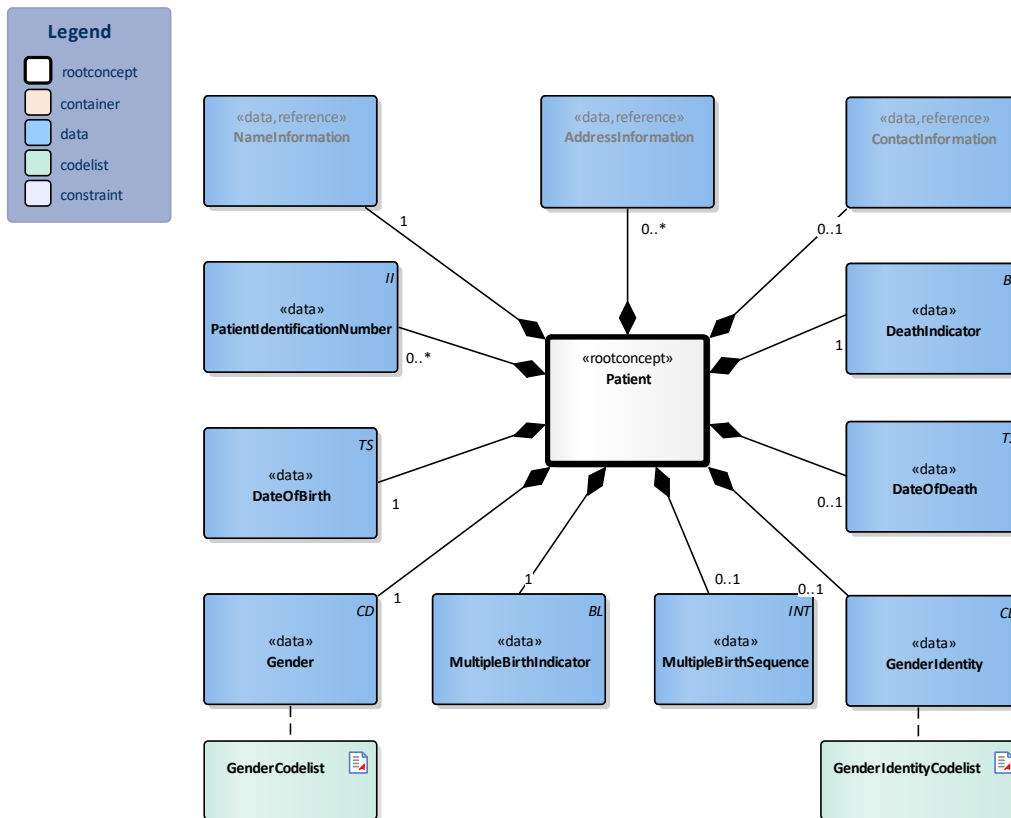
The information for the legally required verification of a social security number provided by the SBV-Z also follows GBA specifications.

Furthermore, the AZR (AWBZ-wide healthcare registration) data set used in AWBZ healthcare served as a base in determining the set.

Use of patient and personal details must follow the Personal Data Protection Act. This law prohibits processing non-essential personal data and mandates decent and reasonable processing of obtained personal data (Kohnstamm, 2006). Patient data recorded in (electronic) patient records or in digital messages must be handled in the context of the Personal Data Protection Act. Furthermore, healthcare centers must meet the Information Security NEN 7510 standard. Observance of the PDPA is monitored by the Dutch Data Protection Authority (CBP). The CBP and the Healthcare Inspectorate (IGZ) are jointly responsible for monitoring information security in healthcare (CBP, IGZ, 2008).

For those reasons, some personal data, seen in some countries as administrative data, are not included in this information model but in the information models for the Social Anamnesis.

## 1.7 Information Model



| «rootconcept»       | Patient                                                                                                                       |         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------|---------|
| Definitie           | Root concept of the Patient information model. This root concept contains all data elements of the Patient information model. |         |
| Datatype            |                                                                                                                               |         |
| DCM::ConceptId      | NL-CM:0.1.1                                                                                                                   |         |
| DCM::DefinitionCode | SNOMED CT: 116154003                                                                                                          | Patient |
| Opties              |                                                                                                                               |         |

| «data»                   | NameInformation      |                                                                                      |
|--------------------------|----------------------|--------------------------------------------------------------------------------------|
| Definitie                | Patient's full name. |                                                                                      |
| Datatype                 |                      |                                                                                      |
| DCM::ConceptId           | NL-CM:0.1.6          |                                                                                      |
| DCM::ReferencedConceptId | NL-CM:20.4.1         | This is a reference to the rootconcept of partial information model NameInformation. |
| Opties                   |                      |                                                                                      |

| «data»                   | AddressInformation             |                                                                                             |
|--------------------------|--------------------------------|---------------------------------------------------------------------------------------------|
| Definitie                | Patient's address information. |                                                                                             |
| Datatype                 |                                |                                                                                             |
| DCM::ConceptId           | NL-CM:0.1.4                    |                                                                                             |
| DCM::ReferencedConceptId | NL-CM:20.5.1                   | This is a reference to the rootconcept of the partial information model AddressInformation. |
| Opties                   |                                |                                                                                             |

| «data»         | ContactInformation                                   |  |
|----------------|------------------------------------------------------|--|
| Definitie      | Patient's telephone number(s) or e-mail address(es). |  |
| Datatype       |                                                      |  |
| DCM::ConceptId | NL-CM:0.1.5                                          |  |

|                                 |              |                                                                                         |
|---------------------------------|--------------|-----------------------------------------------------------------------------------------|
| <b>DCM::ReferencedConceptId</b> | NL-CM:20.6.1 | This is a reference to the rootconcept of partial information model ContactInformation. |
| <b>Opties</b>                   |              |                                                                                         |

|                                |                                                                                                                                                                                                                                                                                                    |                                |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>«data»</b>                  | <b>PatientIdentificationNumber</b>                                                                                                                                                                                                                                                                 |                                |
| <b>Definitie</b>               | The patient's identification number. In transfer situations, use of the social security number (BSN) must comply with the Use of Social Security Numbers in Healthcare Act (Wbsn-z). In other situations, other number systems can be used, such as internal hospital patient numbers for example. |                                |
| <b>Datatype</b>                | II                                                                                                                                                                                                                                                                                                 |                                |
| <b>DCM::AssigningAuthority</b> | Burgerservicenummer                                                                                                                                                                                                                                                                                | OID: 2.16.840.1.113883.2.4.6.3 |
| <b>DCM::ConceptId</b>          | NL-CM:0.1.7                                                                                                                                                                                                                                                                                        |                                |
| <b>DCM::ExampleValue</b>       | 111222333                                                                                                                                                                                                                                                                                          |                                |
| <b>Opties</b>                  |                                                                                                                                                                                                                                                                                                    |                                |

|                            |                                                                                                                           |  |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------|--|
| <b>«data»</b>              | <b>DateOfBirth</b>                                                                                                        |  |
| <b>Definitie</b>           | Patient's date of birth. The date of birth is mandatory for a patient. A vague date (such as only the year) is permitted. |  |
| <b>Datatype</b>            | TS                                                                                                                        |  |
| <b>DCM::ConceptId</b>      | NL-CM:0.1.10                                                                                                              |  |
| <b>DCM::DefinitionCode</b> | LOINC: 21112-8 Birth date                                                                                                 |  |
| <b>DCM::ExampleValue</b>   | 22-03-1999                                                                                                                |  |
| <b>Opties</b>              |                                                                                                                           |  |

|                            |                                  |                                                  |
|----------------------------|----------------------------------|--------------------------------------------------|
| <b>«data»</b>              | <b>Gender</b>                    |                                                  |
| <b>Definitie</b>           | Patient's administrative gender. |                                                  |
| <b>Datatype</b>            | CD                               |                                                  |
| <b>DCM::ConceptId</b>      | NL-CM:0.1.9                      |                                                  |
| <b>DCM::DefinitionCode</b> | LOINC: 46098-0 Sex               |                                                  |
| <b>DCM::ExampleValue</b>   | Female                           |                                                  |
| <b>DCM::ValueSet</b>       | GenderCodelist                   | OID:<br>2.16.840.1.113883.2.4.3.11.60.40.2.0.1.1 |
| <b>Opties</b>              |                                  |                                                  |

|                            |                                              |                                                  |
|----------------------------|----------------------------------------------|--------------------------------------------------|
| <b>«data»</b>              | <b>GenderIdentity</b>                        |                                                  |
| <b>Definitie</b>           | The gender with which the person identifies. |                                                  |
| <b>Datatype</b>            | CD                                           |                                                  |
| <b>DCM::ConceptId</b>      | NL-CM:0.1.34                                 |                                                  |
| <b>DCM::DefinitionCode</b> | SNOMED CT:<br>33821000087103 Gender identity |                                                  |
| <b>DCM::ValueSet</b>       | GenderIdentityCodelist                       | OID:<br>2.16.840.1.113883.2.4.3.11.60.40.2.0.1.2 |
| <b>Opties</b>              |                                              |                                                  |

|                          |                                                                   |  |
|--------------------------|-------------------------------------------------------------------|--|
| <b>«data»</b>            | <b>MultipleBirthIndicator</b>                                     |  |
| <b>Definitie</b>         | An indication stating whether the patient is of a multiple birth. |  |
| <b>Datatype</b>          | BL                                                                |  |
| <b>DCM::ConceptId</b>    | NL-CM:0.1.31                                                      |  |
| <b>DCM::ExampleValue</b> | Nee                                                               |  |
| <b>Opties</b>            |                                                                   |  |

| «data»         | MultipleBirthSequence                                                                                                                                                                                                                                                                |  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Definitie      | The birth number in the sequence of a multiple birth. The first birth is given value 1. The middle birth in a triplet birth would be given value 2 and the third birth would have value 3. If multiple birth order is filled then the value of the MultipleIndicator must be "True". |  |
| Datatype       | INT                                                                                                                                                                                                                                                                                  |  |
| DCM::ConceptId | NL-CM:0.1.35                                                                                                                                                                                                                                                                         |  |
| Opties         |                                                                                                                                                                                                                                                                                      |  |

| «data»              | DeathIndicator                                      |  |
|---------------------|-----------------------------------------------------|--|
| Definitie           | An indication stating whether the patient has died. |  |
| Datatype            | BL                                                  |  |
| DCM::ConceptId      | NL-CM:0.1.32                                        |  |
| DCM::DefinitionCode | SNOMED CT: 419099009<br>Patient died (finding)      |  |
| DCM::ExampleValue   | Nee                                                 |  |
| Opties              |                                                     |  |

| «data»              | DateOfDeath                                                                              |  |
|---------------------|------------------------------------------------------------------------------------------|--|
| Definitie           | The date on which the patient died. A 'vague' date, such as only the year, is permitted. |  |
| Datatype            | TS                                                                                       |  |
| DCM::ConceptId      | NL-CM:0.1.33                                                                             |  |
| DCM::DefinitionCode | LOINC: 81954-0 Date of death [Date]                                                      |  |
| Opties              |                                                                                          |  |

| «document»              | GenderIdentityCodelist                       |  |
|-------------------------|----------------------------------------------|--|
| Definitie               |                                              |  |
| Datatype                |                                              |  |
| DCM::ValueSetBinding    | Extensible                                   |  |
| DCM::ValueSetId         | 2.16.840.1.113883.2.4.3.11.6<br>0.40.2.0.1.2 |  |
| DCM::ValueSetIncludeOTH | True                                         |  |
| DCM::ValueSetStatus     | Active                                       |  |
| HCIM::ValueSetLanguage  | --                                           |  |
| Opties                  |                                              |  |

| GenderidentiteitCodelijst      |                 |                   | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.2 |                                   |
|--------------------------------|-----------------|-------------------|-----------------------------------------------|-----------------------------------|
| Concept Name                   | Concept Code    | Coding Syst. Name | Coding System OID                             | Description                       |
| Identifies as male gender      | 446151000124109 | SNOMED CT         | 2.16.840.1.113883.6.96                        | Identificeert zich als man        |
| Identifies as female gender    | 446141000124107 | SNOMED CT         | 2.16.840.1.113883.6.96                        | Identificeert zich als vrouw      |
| Identifies as nonbinary gender | 33791000087105  | SNOMED CT         | 2.16.840.1.113883.6.96                        | Identificeert zich als non-binair |

| «document»           | GenderCodelist |  |
|----------------------|----------------|--|
| Definitie            |                |  |
| Datatype             |                |  |
| DCM::ValueSetBinding | Required       |  |

|                                     |                                              |                                                      |                                |
|-------------------------------------|----------------------------------------------|------------------------------------------------------|--------------------------------|
| <b>DCM::ValueSetId</b>              | 2.16.840.1.113883.2.4.3.11.6<br>0.40.2.0.1.1 |                                                      |                                |
| <b>DCM::ValueSetInclude<br/>OTH</b> | False                                        |                                                      |                                |
| <b>DCM::ValueSetStatus</b>          | Active                                       |                                                      |                                |
| <b>HCIM::ValueSetLanguage</b>       | EN                                           |                                                      |                                |
| <b>Opties</b>                       |                                              |                                                      |                                |
| <b>GeslachtCodelijst</b>            |                                              | <b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.0.1.1</b> |                                |
| <b>Concept Name</b>                 | <b>Concept Code</b>                          | <b>Coding Syst. Name</b>                             | <b>Coding System OID</b>       |
| Undifferentiated                    | UN                                           | AdministrativeGender                                 | 2.16.840.1.113883.5.1          |
| Male                                | M                                            | AdministrativeGender                                 | 2.16.840.1.113883.5.1          |
| Female                              | F                                            | AdministrativeGender                                 | 2.16.840.1.113883.5.1          |
| Unknown                             | UNK                                          | NullFlavor                                           | 2.16.840.1.113883.5.1008       |
|                                     |                                              |                                                      | Ongedifferentieerd             |
|                                     |                                              |                                                      | Man                            |
|                                     |                                              |                                                      | Vrouw, V                       |
|                                     |                                              |                                                      | Onbekend,<br>Genderneutraal, X |

|                  |               |
|------------------|---------------|
|                  | <b>Legend</b> |
| <b>Definitie</b> |               |
| <b>Datatype</b>  |               |
| <b>Opties</b>    |               |

## 1.8 Example Instances

| Patiënt                    |                                   |
|----------------------------|-----------------------------------|
| Geslacht                   | Vrouw                             |
| Genderidentiteit           | Identificeert zich als non-binair |
| Geboortedatum              | 28-04-1994                        |
| MeerlingIndicator          | Ja                                |
| OverlijdensIndicator       | Nee                               |
| DatumOverlijden            |                                   |
| Naamgegevens               |                                   |
| PatiëntIdentificatienummer | 111222333                         |
| Achternaam                 | Putten                            |
| Voorvoegsels               | van                               |
| AchternaamPartner          | Giessen                           |
| VoorvoegselsPartner        | van der                           |
| Voornamen                  | Johanna Petronella Maria          |
| Initialen                  | J.P.M.                            |
| Roepnaam                   | Jo                                |
| Adresgegevens*             |                                   |
| Straat                     | 1e Jacob van Campenstr            |
| Huisnummer                 | 15                                |
| Woonplaats                 | Hoogmade                          |
| Gemeente                   | Kaag en Braassem                  |
| Postcode                   | 1012 NX                           |
| AdresSoort                 | Woon-/verblijfadres               |
| Land                       | Nederland                         |
| Adresgegevens*             |                                   |
| Straat                     | Stationsstraat                    |
| Huisnummer                 | 11                                |
| Woonplaats                 | Alphen aan den Rijn               |
| Gemeente                   |                                   |
| Postcode                   | 2406 AB                           |
| AdresSoort                 | Officieel adres                   |
| Land                       |                                   |
| Telefoonnummers*           |                                   |
| Telefoonnummer             | +31611234567                      |
| NummerSoort                | Mobiel telefoonnummer             |
| EmailAdressen*             |                                   |
| EmailAdres                 | giesput@myweb.nl                  |
| EmailSoort                 | Privé e-mailadres                 |

\* Meer dan één adres, telefoonnummer en email adres is mogelijk

## 1.9 Instructions

If both a name and an identification number are given, the name must match the name registered under that identification number, for verification purposes.

## 1.10 Interpretation

## 1.11 Care Process

## 1.12 Example of the Instrument

## 1.13 Constraints

## 1.14 Issues

## 1.15 References

1. DCM Patientgegevens V0.91. [Online] Beschikbaar op: [http://www.nictiz.nl/uploaded/FILES/htmlcontent/dcm/Nictiz/DCMPatientgegevens\\_V\\_0.91loNL.pdf](http://www.nictiz.nl/uploaded/FILES/htmlcontent/dcm/Nictiz/DCMPatientgegevens_V_0.91loNL.pdf) [Geraadpleegd: 23 februari 2015].
2. Implementatiehandleiding HL7v3 Basiscomponenten, Stichting HL7 Nederland [Online] Beschikbaar op: [http://www.hl7.nl/images/downloads/Implementatiehandleiding%20HL7v3%20Basiscomponenten%20%202.3NL\\_secure.pdf](http://www.hl7.nl/images/downloads/Implementatiehandleiding%20HL7v3%20Basiscomponenten%20%202.3NL_secure.pdf) [Geraadpleegd: 23 februari 2015].

## 1.16 Functional Model

## 1.17 Traceability to other Standards

## 1.18 Disclaimer

The Health and Care Information Models (a.k.a Clinical Building Block) has been made in collaboration with several different parties in healthcare. These parties asked Nictiz to manage good maintenance and development of the information models. Hereafter, these parties and Nictiz are referred to as the collaborating parties. The collaborating parties paid utmost attention to the reliability and topicality of the data in these Health and Care Information Models. Omissions and inaccuracies may however occur. The collaborating parties are not liable for any damages resulting from omissions or inaccuracies in the information provided, nor are they liable for damages resulting from problems caused by or inherent to distributing information on the internet, such as malfunctions, interruptions, errors or delays in information or services provide by the parties to you or by you to the parties via a website or via e-mail, or any other digital means. The collaborating parties will also not accept liability for any damages resulting from the use of data, advice or ideas provided by or on behalf of the parties by means of the Health and Care Information Models. The parties will not accept any liability for the content of information in this Health and Care Information Model to which or from which a hyperlink is referred. In the event of contradictions in mentioned Health and Care Information Model documents and files, the most recent and highest version of the listed order in the revisions will indicate the priority of the documents in question. If information included in the digital version of a Health and Care Information Model is also distributed in writing, the written version will be leading in case of textual differences. This will apply if both have the same version number and date. A definitive version has priority over a draft version. A revised version has priority over previous versions.

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