# Health & Care Information Model:

## nl.zorg.Admission-v2.0

Status: Final
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Managed by:

Nictiz

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# Content

# 1. nl.zorg.Admission-v2.0

| | |
|---|---|
| DCM::CoderList | Zib-centrum |
| DCM::ContactInformation.Address | * |
| DCM::ContactInformation.Name | * |
| DCM::ContactInformation.Telecom | * |
| DCM::ContentAuthorList | * |
| DCM::CreationDate | 1-12-2021 |
| DCM::DeprecatedDate | |
| DCM::DescriptionLanguage | nl |
| DCM::EndorsingAuthority.Address | |
| DCM::EndorsingAuthority.Name | * |
| DCM::EndorsingAuthority.Telecom | |
| DCM::Id | 2.16.840.1.113883.2.4.3.11.60.40.3.15.4 |
| DCM::KeywordList | Opname, Deelopname, Ziekenhuisopname |
| DCM::LifecycleStatus | Final |
| DCM::ModelerList | Zib-centrum |
| DCM::Name | nl.zorg.Opname |
| DCM::PublicationDate | 15-04-2024 |
| DCM::PublicationStatus | Prepublished |
| DCM::ReviewerList | |
| DCM::RevisionDate | 12-09-2023 |
| DCM::Supersedes | nl.zorg.Opname-v1.0 |
| DCM::Version | 2.0 |
| HCIM::PublicationLanguage | EN |

## 1.1 Revision History

Publicatieversie 1.0 (10-06-2022)

Publicatieversie 2.0 (15-10-2023)
Bevat: ZIB-1773, ZIB-1824.

## 1.2 Concept

The stay of a patient or client in a healthcare facility in the context of a (partial) admission or emergency room visit. A (partial) admission is the entire or partial stay of a patient or client in a department equipped for nursing in a health care institution, for example, an inpatient ward, day care unit, emergency care, or observatory. This HCIM therefore applies to a whole admission, part of an admission, or emergency room visit in both past and present.
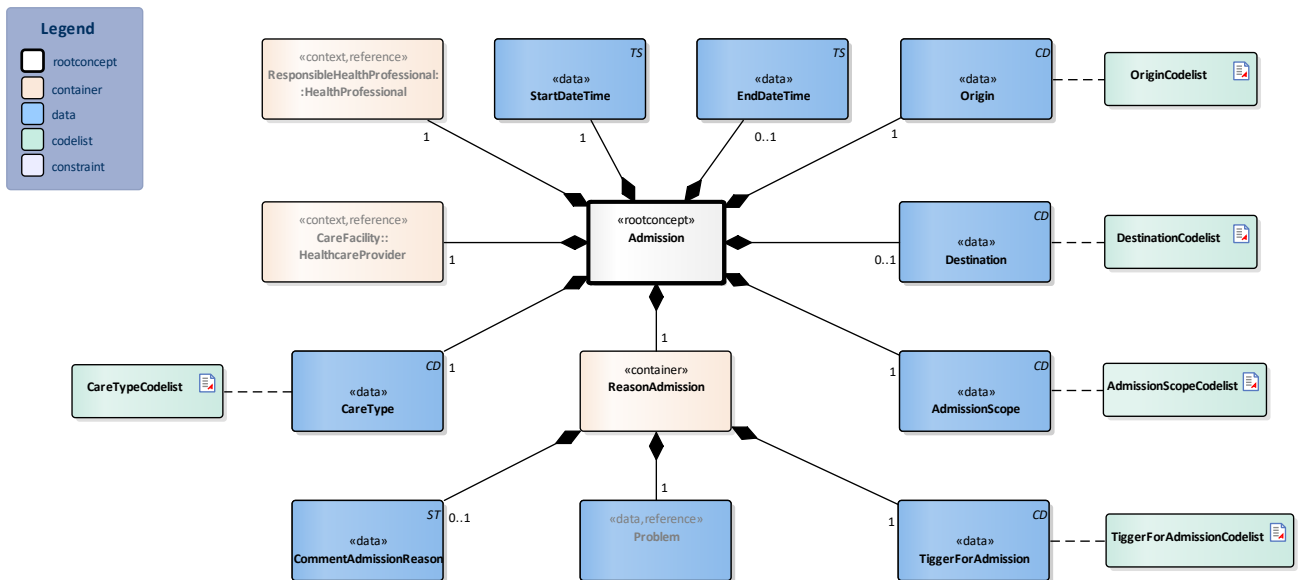
## 1.3 Mindmap

## 1.4 Purpose

Admissions or emergency room visits occur in a healthcare facility for the purpose of treating, observing or examining a patient or client.

## 1.5 Patient Population

## 1.6 Evidence Base

The codelists for Origin and Destination generally correspond to the 'Landelijke Basisregistratie Ziekenhuiszorg' (National Basic Registration Hospital Care)

## 1.7 Information Model



| «rootconcept» | Admission | |
|---|---|---|
| **Definitie** | Root concept of the Admission information model.This root concept contains all data elements of the Admission information model. | |
| **Datatype** | | |
| **DCM::ConceptId** | NL-CM:15.4.1 | |
| **Opties** | | |

| «data» | CareType | |
|---|---|---|
| **Definitie** | The type of care that has been or will be provided to the patient during the (partial) admission. This is related, among other things, to the severity category of the care. | |
| **Datatype** | CD | |
| **DCM::ConceptId** | NL-CM:15.4.2 | |
| **DCM::ValueSet** | CareTypeCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.5 |
| **Opties** | | |

| «data» | StartDateTime | |
|---|---|---|
| **Definitie** | Date and time when the (partial) admission will start or was started. | |
| **Datatype** | TS | |
| **DCM::ConceptId** | NL-CM:15.4.3 | |
| **Opties** | | |

| «data» | EndDateTime | |
|---|---|---|
| **Definitie** | Date and time on which the (partial) admission ended. For a future or ongoing admission, the end date can be empty. | |
| **Datatype** | TS | |
| **DCM::ConceptId** | NL-CM:15.4.4 | |
| **Opties** | | |

| «container» | ReasonAdmission | |
|---|---|---|
| **Definitie** | Container of the ReasonAdmission concept.This container contains all data elements of the ReasonAdmission concept. | |

| Datatype | |
|---|---|
| DCM::ConceptId | NL-CM:15.4.5 |
| Opties | |

| «data» | Problem | |
|---|---|---|
| Definitie | The main problem to which the (partial) admission relates. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:15.4.6 | |
| DCM::ReferencedConceptId | NL-CM:5.1.1 | This is a reference to the rootconcept of information model Problem. |
| Opties | | |

| «data» | TiggerForAdmission | |
|---|---|---|
| Definitie | The specific reason for the admission in relation to the diagnosis and/or treatment of the problem. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:15.4.7 | |
| DCM::DefinitionCode | SNOMED CT: 59021000146108 Reason for admission | |
| DCM::ValueSet | TiggerForAdmissionCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.1 |
| Opties | | |

| «data» | CommentAdmissionReason | |
|---|---|---|
| Definitie | Comment on the reason for the (partial) admission, insofar as this cannot be sufficiently expressed in the other elements. | |
| Datatype | ST | |
| DCM::ConceptId | NL-CM:15.4.8 | |
| DCM::DefinitionCode | LOINC: 48767-8 Annotation comment [Interpretation] Narrative | |
| Opties | | |

| «data» | Origin | |
|---|---|---|
| Definitie | Location where the patient comes from prior to the (partial) admission. This will mainly be used at the start of hospitalisation. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:15.4.9 | |
| DCM::ValueSet | OriginCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.3 |
| Opties | | |

| «data» | Destination | |
|---|---|---|
| Definitie | Location where the patient will go after the (partial) admission. This will mainly be used at the end of hospitalization. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:15.4.10 | |
| DCM::ValueSet | DestinationCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.2 |
| Opties | | |

| «data» | AdmissionScope |
|---|---|
| Definitie | AdmissionScope indicates whether it is a overall admission or a partial admission. |

| Datatype | CD | |
|---|---|---|
| DCM::ConceptId | NL-CM:15.4.11 | |
| DCM::ValueSet | AdmissionScopeCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.4 |
| Opties | | |

| «context» | ResponsibleHealthProfessional::HealthProfessional | |
|---|---|---|
| Definitie | The health professional who is responsible during the (partial) admission. The information about the health professional can also include the specialism and role of the health professional. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:15.4.12 | |
| DCM::ReferencedConceptId | NL-CM:17.1.1 | This is a reference to the rootconcept of information model HealthProfessional. |
| Opties | | |

| «context» | CareFacility::HealthcareProvider | |
|---|---|---|
| Definitie | The physical location of the healthcare provider where the (partial) admission has taken place or will take place. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:15.4.13 | |
| DCM::ReferencedConceptId | NL-CM:17.2.1 | This is a reference to the rootconcept of information model HealthcareProvider. |
| Opties | | |

| «document» | TiggerForAdmissionCodelist | |
|---|---|---|
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Extensible | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.1 | |
| HCIM::ValueSetLanguage | -- | |
| Opties | | |

| AanleidingOpnameCodelijst | | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.1 | | |
|---|---|---|---|---|
| Concept Name | Concept Code | Coding Syst. Name | Coding System OID | Description |
| Procedure | 71388002 | SNOMED CT | 2.16.840.1.113883.6.96 | Uitvoeren verrichting |
| Administration of medication | 18629005 | SNOMED CT | 2.16.840.1.113883.6.96 | Medicatietoediening |
| Observation regime | 225308005 | SNOMED CT | 2.16.840.1.113883.6.96 | Observatie |
| Rehabilitation therapy | 52052004 | SNOMED CT | 2.16.840.1.113883.6.96 | Revalidatie |
| Safety procedure | 370886002 | SNOMED CT | 2.16.840.1.113883.6.96 | Veiligheid patiënt en/of omgeving |
| Respite care of patient | 105386004 | SNOMED CT | 2.16.840.1.113883.6.96 | Respijtzorg |
| Encounter for acute problem | 180201000146103 | SNOMED CT | 2.16.840.1.113883.6.96 | Contact vanwege acuut probleem |

| «document» | DestinationCodelist | |
|---|---|---|
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Extensible | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.2 | |

| HCIM::ValueSetLanguage | -- | | |
|---|---|---|---|
| **Opties** | | | |

| **BestemmingCodelijst** | | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.2 | |
|---|---|---|---|---|
| **Concept Name** | **Concept Code** | **Coding Syst. Name** | **Coding System OID** | **Description** |
| Home | 264362003 | SNOMED CT | 2.16.840.1.113883.6.96 | Eigen woonomgeving, niet zijnde een instelling |
| Left against medical advice | 445060000 | SNOMED CT | 2.16.840.1.113883.6.96 | Tegen advies in vertrokken [DEPRECATED] |
| Rehabilitation hospital | 80522000 | SNOMED CT | 2.16.840.1.113883.6.96 | Instelling voor revalidatie |
| Long term care facility | 42665001 | SNOMED CT | 2.16.840.1.113883.6.96 | Instelling voor verpleging/verzorging |
| Psychiatric hospital | 62480006 | SNOMED CT | 2.16.840.1.113883.6.96 | GGZ instelling |
| Hospital | 22232009 | SNOMED CT | 2.16.840.1.113883.6.96 | Ander ziekenhuis |
| Died in hospital | 183676005 | SNOMED CT | 2.16.840.1.113883.6.96 | Overleden [DEPRECATED] |
| Morgue | 225737007 | SNOMED CT | 2.16.840.1.113883.6.96 | Mortuarium |
| Hospice | 284546000 | SNOMED CT | 2.16.840.1.113883.6.96 | Hospice |
| Hospital abroad | 155621000146109 | SNOMED CT | 2.16.840.1.113883.6.96 | Ziekenhuis buitenland |
| Site of care | 43741000 | SNOMED CT | 2.16.840.1.113883.6.96 | Instelling (anders) |
| Discharge to other location within hospital premises | 115841000146105 | SNOMED CT | 2.16.840.1.113883.6.96 | Afdeling binnen zelfde instelling |

| **«document»** | OriginCodelist | | |
|---|---|---|---|
| **Definitie** | | | |
| **Datatype** | | | |
| **DCM::ValueSetBinding** | Extensible | | |
| **DCM::ValueSetId** | 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.3 | | |
| **HCIM::ValueSetLanguage** | -- | | |
| **Opties** | | | |

| **HerkomstCodelijst** | | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.3 | |
|---|---|---|---|---|
| **Concept Name** | **Concept Code** | **Coding Syst. Name** | **Coding System OID** | **Description** |
| Home | 264362003 | SNOMED CT | 2.16.840.1.113883.6.96 | Eigen woonomgeving, niet zijnde een instelling |
| Rehabilitation hospital | 80522000 | SNOMED CT | 2.16.840.1.113883.6.96 | Instelling voor revalidatie |
| Long term care facility | 42665001 | SNOMED CT | 2.16.840.1.113883.6.96 | Instelling voor verpleging/verzorging |
| Psychiatric hospital | 62480006 | SNOMED CT | 2.16.840.1.113883.6.96 | GGZ instelling |
| Hospital | 22232009 | SNOMED CT | 2.16.840.1.113883.6.96 | Ander ziekenhuis |
| Newborn nursery unit | 427695007 | SNOMED CT | 2.16.840.1.113883.6.96 | In dit ziekenhuis geboren |
| Liveborn born in hospital | 442311008 | SNOMED CT | 2.16.840.1.113883.6.96 | In dit ziekenhuis geboren [DEPRECATED] |
| Hospice | 284546000 | SNOMED CT | 2.16.840.1.113883.6.96 | Hospice |
| Hospital abroad | 155621000146109 | SNOMED CT | 2.16.840.1.113883.6.96 | Ziekenhuis buitenland |
| Site of care | 43741000 | SNOMED CT | 2.16.840.1.113883.6.96 | Instelling (anders) |

| Accident and Emergency department | 225728007 | SNOMED CT | 2.16.840.1.113883.6.96 | SEH |
|---|---|---|---|---|
| Outpatient environment | 440655000 | SNOMED CT | 2.16.840.1.113883.6.96 | Poliklinische afdeling |
| Discharge to other location within hospital premises | 115841000146105 | SNOMED CT | 2.16.840.1.113883.6.96 | Afdeling binnen zelfde instelling |
| Incident site | 702869004 | SNOMED CT | 2.16.840.1.113883.6.96 | Locatie van incident |

| «document» | AdmissionScopeCodelist | |
|---|---|---|
| **Definitie** | | |
| **Datatype** | | |
| **DCM::ValueSetBinding** | Extensible | |
| **DCM::ValueSetId** | 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.4 | |
| **HCIM::ValueSetLanguage** | -- | |
| **Opties** | | |

| OpnameScopeCodelijst | | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.4 | |
|---|---|---|---|---|
| **Concept Name** | **Concept Code** | **Coding Syst. Name** | **Coding System OID** | **Description** |
| Total admission | TA | OpnameScope | 2.16.840.1.113883.2.4.3.11.60.40.4.29.1 | Gehele opname |
| Admission part | PA | OpnameScope | 2.16.840.1.113883.2.4.3.11.60.40.4.29.1 | Opnamedeel |

| «document» | CareTypeCodelist | |
|---|---|---|
| **Definitie** | | |
| **Datatype** | | |
| **DCM::ValueSetBinding** | Extensible | |
| **DCM::ValueSetId** | 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.5 | |
| **HCIM::ValueSetLanguage** | -- | |
| **Opties** | | |

| ZorgTypeCodelijst | | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.15.4.5 | |
|---|---|---|---|---|
| **Concept Name** | **Concept Code** | **Coding Syst. Name** | **Coding System OID** | **Description** |
| Regular nursing care | 180121000146103 | SNOMED CT | 2.16.840.1.113883.6.96 | Reguliere verpleging |
| Medium care | 180141000146109 | SNOMED CT | 2.16.840.1.113883.6.96 | Verlenen van 'medium care' aan patiënt |
| High care | 180151000146107 | SNOMED CT | 2.16.840.1.113883.6.96 | Verlenen van 'high care' aan patiënt |
| Intensive care | 180131000146101 | SNOMED CT | 2.16.840.1.113883.6.96 | IC-zorg [DEPRECATED] |
| Care of intensive care unit patient | 133903000 | SNOMED CT | 2.16.840.1.113883.6.96 | Verlenen van zorg aan patient op intensivecareafdeling |
| Care of accident and emergency unit patient | 290191000146103 | SNOMED CT | 2.16.840.1.113883.6.96 | Verlenen van zorg aan patiënt op spoedeisende hulp |

| Legend | |
|---|---|
| **Definitie** | |
| **Datatype** | |
| | |
| **Opties** | |

## 1.8 Example Instances

| Herkomst | Begin Datum Tijd | RedenOpname | | Verantwoordelijk Behandelaar | ZorgType | Zorginstelling |
|---|---|---|---|---|---|---|
| | | Probleem | Aanleiding Opname | Zorgverlener Naam | | Zorgaanbieder Naam |
| Eigen woonomgeving | 16-05-2022 | Gebroken been | Uitvoeren verrichting | J.H.R. Peters | Reguliere verpleging | Universitair Medisch Centrum Groningen |

## 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. Landelijke Basisregistratie Ziekenhuiszorg [Online] Beschikbaar op:
https://www.dhd.nl/klanten/klantenservice/handleidingen_formulieren/Documents/Handleiding%20LBZ.pdf [Geraadpleegd: 29 juni2017].

## 1.16 Functional Model

## 1.17 Traceability to other Standards

## 1.18 Disclaimer

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