

# Health & Care Information Model:

nl.zorg.Procedure-v6.0

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# Content

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# 1. nl.zorg.Procedure-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	6-6-2012
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.14.1
DCM::KeywordList	procedure,verrichting
DCM::LifecycleStatus	Final
DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.zorg.Verrichting
DCM::PublicationDate	17-04-2026
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	08-04-2025
DCM::Supersedes	nl.zorg.Verrichting-v5.4.1
DCM::Version	6.0
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (15-02-2013)

Publicatieversie 1.1 (01-07-2013)

Bevat: ZIB-55, ZIB-24.

Publicatieversie 1.2 (01-04-2015)

Bevat: ZIB-84, ZIB-93, ZIB-95, ZIB-122, ZIB-270, ZIB-271, ZIB-272, ZIB-273, ZIB-308, ZIB-325, 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-401, ZIB-453.

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-475, ZIB-549, ZIB-564, ZIB-576, ZIB-578.

Publicatieversie 4.0 (04-09-2017)

Bevat: ZIB-457, ZIB-458, ZIB-515, ZIB-518, ZIB-549, ZIB-564, ZIB-574, ZIB-576, ZIB-578, ZIB-581, ZIB-585.

Publicatieversie 4.1 (31-12-2017)

Bevat: ZIB-646.

Publicatieversie 4.2 (26-02-2019)

Bevat: ZIB-624, ZIB-633, ZIB-625, ZIB-675.

Publicatieversie 5.0 (06-07-2019)

Bevat: ZIB-821.

Publicatieversie 5.1 (31-01-2020)

Bevat: ZIB-954, ZIB-908.

Publicatieversie 5.2 (01-09-2020)

Bevat: ZIB-666, ZIB-993, ZIB-1087, ZIB-1088, ZIB-1095, ZIB-1116.

Publicatieversie 5.3 (01-12-2021)

Bevat: ZIB-977, ZIB-1444.

Publicatieversie 5.4 (10-06-2022)

Bevat: ZIB-1488, ZIB-1602.

Publicatieversie 5.4.1 (15-10-2023)

Bevat: ZIB-1785, ZIB-1974.

Publicatieversie 6.0 (24-04-2024)

Bevat: ZIB-2096, ZIB-2395, ZIB-2624.

## **1.2 Concept**

The concept Procedure describes therapeutic or diagnostic procedure undergone by the patient or which the patient will undergo. The concept can describe in the right context historical, future as well as advised procedures.

A procedure can be a simple blood pressure measurement, but also a complex heart surgery.

In some care settings, the term treatment is used instead of the term procedure.

## **1.3 Mindmap**

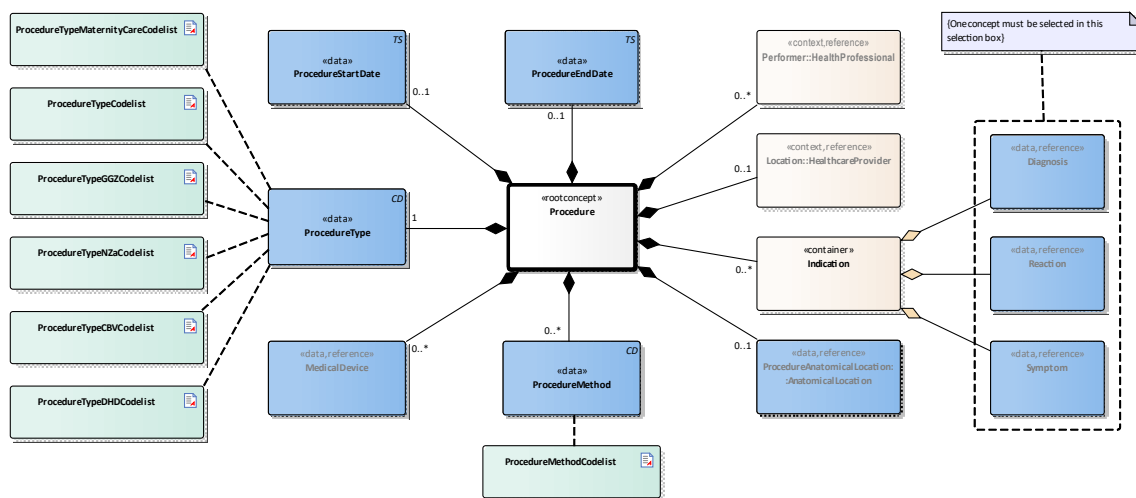
## **1.4 Purpose**

A procedure is carried out or planned as part of a planned policy or to obtain additional information in the diagnostic process. Procedures are documented to gain insight into the treatment of a patient. In addition, procedures are documented for administrative purposes such as invoicing and workload measurement, scientific research and/or education.

## **1.5 Patient Population**

## **1.6 Evidence Base**

## **1.7 Information Model**



«root concept»	Procedure	
Definitie	Root concept of the Procedure information model. This root concept contains all data elements of the Procedure information model.	
Datatype		
DCM::ConceptId	NL-CM:14.1.1	
DCM::DefinitionCode	SNOMED CT: 71388002	
Opties	Verrichting	

«data»	ProcedureStartDate	
Definitie	The (desired) start date (and if possible start time) of the procedure. A 'vague' date, such as only the year, is permitted. The element offers the option to indicate the start of the period of a series of related procedures.	
Datatype	TS	
DCM::ConceptId	NL-CM:14.1.2	
DCM::ExampleValue	06-05-2012	
Opties		

«data»	ProcedureEndDate	
Definitie	The end date (and if possible end time) of the procedure. A 'vague' date, such as only the year, is permitted. The element offers the option to indicate the end of the period of a series of related procedures. The end date element is only used for a procedures that takes some time and is then always applied. If the procedure still continues, the value is left empty. For instantaneous or very short lasting procedures the element is omitted.	
Datatype	TS	
DCM::ConceptId	NL-CM:14.1.3	
DCM::ExampleValue	07-06-2012	
Opties		

«context»	Performer::HealthProfessional	
Definitie	The healthcare professional who carried out or will carry out the procedure. In most cases, only the medical specialty is entered, and not the name of the healthcare professional.	
Datatype		
DCM::ConceptId	NL-CM:14.1.6	
DCM::ExampleValue	Orthopedie	
DCM::ReferencedConceptId	NL-CM:17.1.1	This is a reference to the rootconcept of information model HealthProfessional.
Opties		

«context»	Location::HealthcareProvider	
Definitie	The healthcare provider where the procedure was, is or will be carried out.	
Datatype		
DCM::ConceptId	NL-CM:14.1.5	
DCM::ReferencedConceptId	NL-CM:17.2.1	This is a reference to the rootconcept of information model HealthcareProvider.
Opties		

«data»	ProcedureAnatomicalLocation::AnatomicalLocation	
Definitie	Anatomical location that is the focus of the procedure.	
Datatype		
DCM::ConceptId	NL-CM:14.1.13	
DCM::DefinitionCode	SNOMED CT: 405813007 Procedure site - Direct	
DCM::ReferencedConceptId	NL-CM:20.7.1	This is a reference to the rootconcept of information model AnatomicalLocation.
Opties		

«container»	Indication	
Definitie	Container of the Indication concept. This container contains all data elements of the Indication concept.	
Datatype		
DCM::ConceptId	NL-CM:14.1.14	
Opties		

«data»	Diagnosis	
Definitie	A diagnosis that serves as an indication for the procedure.	
Datatype		
DCM::ConceptId	NL-CM:14.1.15	
DCM::ReferencedConceptId	NL-CM:5.6.1	This is a reference to the rootconcept of information model Diagnosis.
Opties		

«data»	Reaction	
Definitie	An undesired reaction to a substance or radiation that served as an indication for the procedure.	
Datatype		
DCM::ConceptId	NL-CM:14.1.16	
DCM::ReferencedConceptId	NL-CM:5.3.1	This is a reference to the rootconcept of information model Reaction.
Opties		

«data»	Symptom	
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<b>Definitie</b>	A symptom that serves as an indication for the procedure.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:14.1.17	
<b>DCM::ReferencedConceptId</b>	NL-CM:5.5.1	This is a reference to the rootconcept of information model Symptom.
<b>Opties</b>		

<b>«data»</b>	<b>ProcedureMethod</b>	
<b>Definitie</b>	The method or technique that is going to be or was used to perform the procedure, e.g. approach, lavage, pressuring, etc.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:14.1.12	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.4
<b>DCM::DefinitionCode</b>	SNOMED CT: 260686004 Method	
<b>DCM::ValueSet</b>	ProcedureMethodCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.4
<b>Opties</b>		

<b>«data»</b>	<b>MedicalDevice</b>	
<b>Definitie</b>	The product, the placing of which in or on the body is the purpose of the procedure, for example placing an implant.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:14.1.7	
<b>DCM::DefinitionCode</b>	SNOMED CT: 405815000 Procedure device	
<b>DCM::ReferencedConceptId</b>	NL-CM:10.1.1	This is a reference to the rootconcept of information model MedicalDevice.
<b>Opties</b>		

<b>«data»</b>	<b>ProcedureType</b>	
<b>Definitie</b>	The name of the procedure. Choices are the DHD procedure thesaurus, the procedures file (CBV), the Care activities file (NZa), the Dutch Mental Health and Addiction Care procedures list (GGZ) and the procedures list of the Dutch College of General Practitioners (NHG).	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:14.1.4	
<b>DCM::ExampleValue</b>	Knie - prothese implantatie gewricht	
<b>DCM::ValueSet</b>	ProcedureTypeNZaCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.5
<b>DCM::ValueSet</b>	ProcedureTypeCBVCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.6
<b>DCM::ValueSet</b>	ProcedureTypeCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.8
<b>DCM::ValueSet</b>	ProcedureTypeDHDcodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.2
<b>DCM::ValueSet</b>	ProcedureTypeGGZCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.7
<b>DCM::ValueSet</b>	ProcedureTypeMaternityCareCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.9
<b>Opties</b>		

<b>«document»</b>	<b>ProcedureTypeMaternityCareCodelist</b>	
<b>Definitie</b>		

<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.14.1.9	
<b>DCM::ValueSetIncludeOTH</b>	True	
<b>DCM::ValueSetStatus</b>	Active	
<b>HCIM::ValueSetLanguage</b>	--	
<b>Opties</b>		
<b>VerrichtingTypeGeboortezorgCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.9</b>
<b>Codes</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>
SNOMED CT: ^146481000146103   Dutch obstetric procedures simple reference set	SNOMED CT	2.16.840.1.113883.6.96

<b>«document»</b>	<b>ProcedureMethodCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.14.1.4	
<b>DCM::ValueSetIncludeOTH</b>	True	
<b>DCM::ValueSetStatus</b>	Active	
<b>HCIM::ValueSetLanguage</b>	--	
<b>Opties</b>		
<b>VerrichtingMethodeCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.4</b>
<b>Codes</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>
SNOMED CT: < 129264002   Action (qualifier value)	SNOMED CT	2.16.840.1.113883.6.96

<b>«document»</b>	<b>ProcedureTypeDHD Codelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.14.1.2	
<b>DCM::ValueSetIncludeOTH</b>	True	
<b>DCM::ValueSetStatus</b>	Active	
<b>HCIM::ValueSetLanguage</b>	--	
<b>Opties</b>		
<b>VerrichtingTypeDHD Codelijst</b>	<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.2</b>	
<b>Codes</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>
Alle waarden	DHD Verrichtingenthesaurus	2.16.840.1.113883.2.4.3.120.5.2

<b>«document»</b>	<b>ProcedureTypeCBV Codelist</b>
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<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.14.1.6	
<b>DCM::ValueSetIncludeOTH</b>	True	
<b>DCM::ValueSetStatus</b>	Active	
<b>HCIM::ValueSetLanguage</b>	--	
<b>Opties</b>		
<b>VerrichtingTypeCBVCodelijst</b>	<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.6</b>	
<b>Codes</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>
Alle waarden	CBV codes	2.16.840.1.113883.2.4.3.120.5.3

<b>«document»</b>	<b>ProcedureTypeNZaCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.14.1.5	
<b>DCM::ValueSetIncludeOTH</b>	True	
<b>DCM::ValueSetStatus</b>	Active	
<b>HCIM::ValueSetLanguage</b>	--	
<b>Opties</b>		
<b>VerrichtingTypeNZaCodelijst</b>	<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.5</b>	
<b>Codes</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>
Alle waarden	NZa codes	2.16.840.1.113883.2.4.3.27.15.5

<b>«document»</b>	<b>ProcedureTypeGGZCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.14.1.7	
<b>DCM::ValueSetIncludeOTH</b>	True	
<b>DCM::ValueSetStatus</b>	Active	
<b>HCIM::ValueSetLanguage</b>	--	
<b>Opties</b>		
<b>VerrichtingTypeGGZCodelijst</b>	<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.7</b>	
<b>Codes</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>
Alle waarden [DEPRECATED]	GGZ Verrichtingenijst	2.16.840.1.113883.3.3210.14.2.2.15
SNOMED CT: ^140741000146104   Dutch mental health	SNOMED CT	2.16.840.1.113883.6.96

procedures simple reference set		
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«document» ProcedureTypeCodelist		
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.14.1.8	
DCM::ValueSetIncludeOTH	True	
DCM::ValueSetStatus	Active	
HCIM::ValueSetLanguage	--	
Opties		
VerrichtingTypeNHGCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.1.8	
Codes	Coding Syst. Name	Coding System OID
Alle waarden	NHG tabel 49 Ingrepen en behandelingen	2.16.840.1.113883.2.4.4.30.49

	Legend
Definitie	
Datatype	
Opties	

	Constraint
Definitie	One concept must be selected in this selection box
Datatype	
Opties	

## 1.8 Example Instances

Verrichting	
VerrichtingStartDatum	05-06-2012
VerrichtingEindDatum	
VerrichtingType	Knieprothese implantatie gewricht
VerrichtingMethode	
Uitvoerder	
Specialisme	Orthopedie
Locatie	
OrganisatieNaam	UMCG
Indicatie	
Diagnose	
DiagnoseNaam	Artrose knie
AnatomischeLocatie	
Locatie	Knie
Lateraliteit	Rechts
MedischHulpmiddel	
ProductOmschrijving	Implant, Gen 2 Tibia Insert 5/6-9mm
Product	
ProductID	(01)05050474530799 (17)160131 (21)1148130801
ProductType	Implanteerbare knieprothese

## 1.9 Instructions

Valuesets from this zib may be deprecated when the SNOMED decision comes into force in the Netherlands. More information on the SNOMED decision and what its implementation means for zibs can be found at <https://zibs.nl/wiki/SNOMEDbesluit>. (Dutch)

## 1.10 Interpretation

## 1.11 Care Process

## 1.12 Example of the Instrument

## 1.13 Constraints

## 1.14 Issues

## 1.15 References

## 1.16 Functional Model

## 1.17 Traceability to other Standards

## 1.18 Disclaimer

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