

# Health & Care Information Model: nl.zorg.NursingIntervention-v3.1

Final

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# Content

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# 1. nl.zorg.NursingIntervention-v3.1

DCM::CoderList	Werkgroep RadB Verpleegkundige Gegevens
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Werkgroep RadB Verpleegkundige Gegevens
DCM::CreationDate	7-7-2014
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.14.2
DCM::KeywordList	Interventie, verpleegkundige actie
DCM::LifecycleStatus	Final
DCM::ModelerList	Werkgroep RadB Verpleegkundige Gegevens
DCM::Name	nl.zorg.VerpleegkundigeInterventie
DCM::PublicationDate	04-09-2017
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep RadB Verpleegkundige Gegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	04-09-2017
DCM::Superseeds	nl.zorg.VerpleegkundigeInterventie-v3.0
DCM::Version	3.1
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (01-07-2015)

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-453

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-542

## 1.2 Concept

A nursing intervention is the care and/or treatment carried out by a nurse based on an expert opinion and clinical knowledge. It is part of the nursing process; interventions are determined as a result of indexed healthcare problems (nursing diagnoses) and based on treatment goals. The interventions are outlined in the nursing procedures.

In a home care situation some actions can also be performed by the patient or a caregiver after a relevant instruction

## 1.3 Mindmap

## 1.4 Purpose

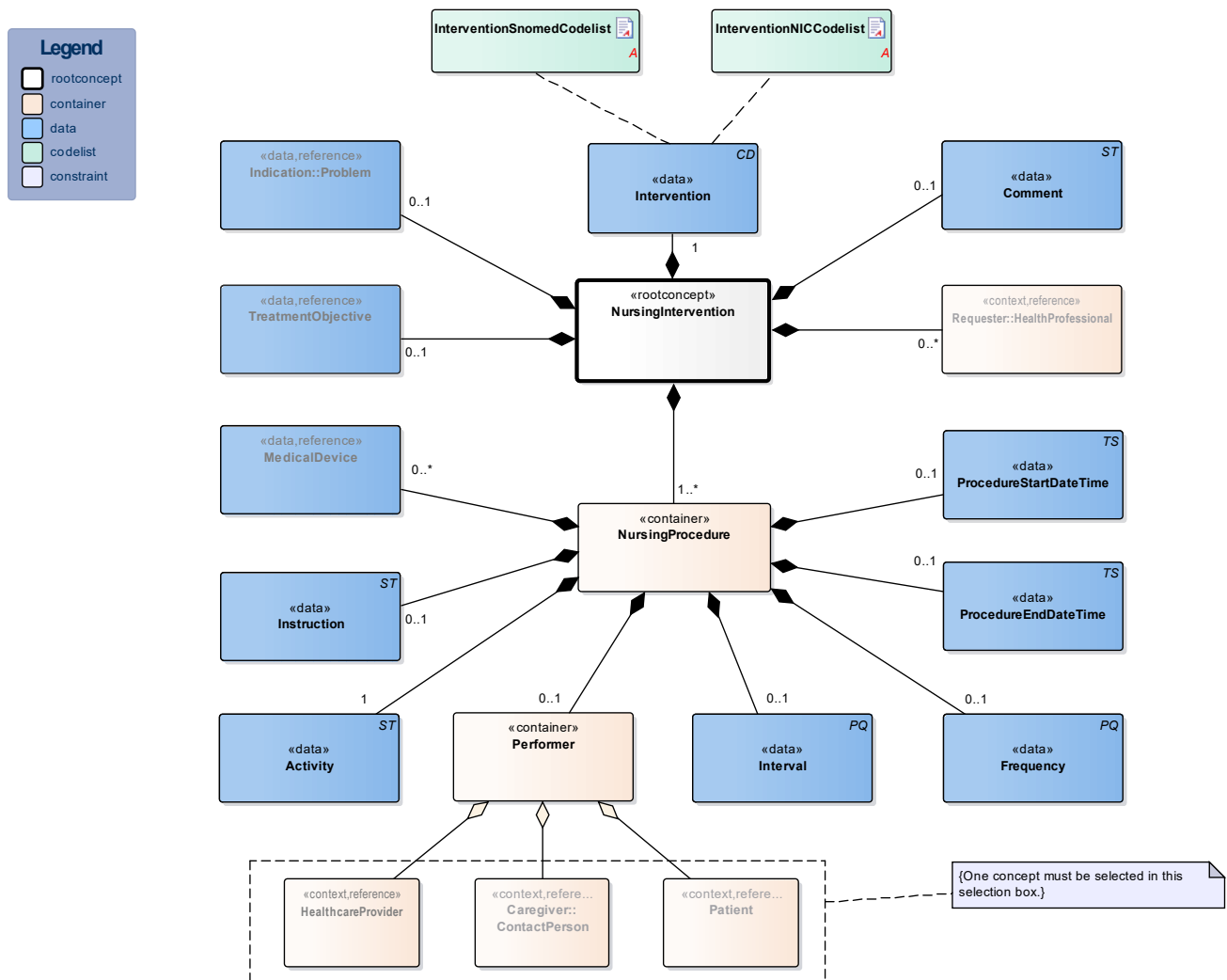
The nursing interventions are an essential part of the nursing process. A nursing intervention is recorded to document the nursing policy and to update other health professionals on the intervention. The

documentation of nursing interventions offers the option to determine whether the interventions outlined in the treatment plan have been carried out. This way, we can facilitate optimal nursing and continuity of care.

## 1.5 Patient Population

## 1.6 Evidence Base

## 1.7 Information Model



«rootconcept»	NursingIntervention
<b>Definitie</b>	Root concept of the NursingIntervention information model. This root concept contains all data elements of the NursingIntervention information model.
<b>Datatype</b>	
<b>DCM::ConceptId</b>	NL-CM:14.2.1
<b>Opties</b>	

«data»	Intervention
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<b>Definitie</b>	A nursing intervention is a treatment carried out by a nurse based on an expert opinion and clinical knowledge for the benefit of the person requesting healthcare. The intervention is targeted towards a certain problem (diagnosis) and has a predetermined healthcare result.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:14.2.2	
<b>DCM::ValueSet</b>	InterventionSnomedCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.2.4
<b>DCM::ValueSet</b>	InterventionNICCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.2.2
<b>Opties</b>		

<b>«data»</b>	<b>Indication::Problem</b>	
<b>Definitie</b>	The nursing-related problem (indication) providing cause for the intervention.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:14.2.6	
<b>DCM::ReferencedConceptId</b>	NL-CM:5.1.1	This is a reference to the rootconcept of information model Problem.
<b>Opties</b>		

<b>«data»</b>	<b>TreatmentObjective</b>	
<b>Definitie</b>	The description of the treatment goal that the intervention decision is based on.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:14.2.14	
<b>DCM::ReferencedConceptId</b>	NL-CM:13.5.1	This is a reference to the rootconcept of information model TreatmentObjective.
<b>Opties</b>		

<b>«container»</b>	<b>NursingProcedure</b>	
<b>Definitie</b>	Container of the NursingProcedure concept. This container contains all data elements of the NursingProcedure concept.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:14.2.9	
<b>DCM::DefinitionCode</b>	SNOMED CT: 9632001 Nursing procedure	
<b>Opties</b>		

<b>«data»</b>	<b>Interval</b>	
<b>Definitie</b>	Interval indicates the time between planned procedures. When entering an interval, the focus is on the time between the consecutive procedures, such as in the treatment of a wound, for example. The exact times are of lesser importance.	
<b>Datatype</b>	PQ	
<b>DCM::ConceptId</b>	NL-CM:14.2.3	
<b>Opties</b>		

<b>«data»</b>	<b>Frequency</b>	
<b>Definitie</b>	The frequency describes how often and in which period certain procedures	

	are carried out, e.g. 3x a day.
<b>Datatype</b>	PQ
<b>DCM::ConceptId</b>	NL-CM:14.2.4
<b>Opties</b>	

<b>«data»</b>	<b>Activity</b>
<b>Definitie</b>	The description of nursing procedures carried out in the care for a patient. A nursing intervention consists of a set of patient-related nursing procedures.
<b>Datatype</b>	ST
<b>DCM::ConceptId</b>	NL-CM:14.2.10
<b>Opties</b>	

<b>«data»</b>	<b>ProcedureStartDateTime</b>
<b>Definitie</b>	The start date (and if possible start time) of the procedure. The concept offers the option to indicate the start of the period of a series of repeating procedures.
<b>Datatype</b>	TS
<b>DCM::ConceptId</b>	NL-CM:14.2.11
<b>DCM::ExampleValue</b>	20120605
<b>Opties</b>	

<b>«data»</b>	<b>ProcedureEndDateTime</b>
<b>Definitie</b>	The end date (and if possible end time) of the procedure. The concept offers the option to indicate the end of the period of a series of repeating procedures.
<b>Datatype</b>	TS
<b>DCM::ConceptId</b>	NL-CM:14.2.12
<b>DCM::ExampleValue</b>	20120607
<b>Opties</b>	

<b>«data»</b>	<b>MedicalDevice</b>	
<b>Definitie</b>	Description of the materials used for the nursing procedure, such as bandages.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:14.2.13	
<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>Instruction</b>
<b>Definitie</b>	Instructions for performing the nursing action. This is particularly at issue when the action is performed by the patient himself or by a caregiver.
<b>Datatype</b>	ST
<b>DCM::ConceptId</b>	NL-CM:14.2.18
<b>Opties</b>	

<b>«container»</b>	<b>Performer</b>
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<b>Definitie</b>	The person carrying out the nursing procedure.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:14.2.15	
<b>Opties</b>		

<b>«context»</b>	<b>HealthcareProvider</b>	
<b>Definitie</b>	The health professional carrying out the nursing procedure.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:14.2.7	
<b>DCM::ReferencedConceptId</b>	NL-CM:17.1.1	This is a reference to the rootconcept of information model HealthProfessional.
<b>Opties</b>		

<b>«context»</b>	<b>Caregiver::ContactPerson</b>	
<b>Definitie</b>	The caregiver carrying out the nursing procedure.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:14.2.16	
<b>DCM::ReferencedConceptId</b>	NL-CM:3.1.1	This is a reference to the rootconcept of information model ContactPerson.
<b>Opties</b>		

<b>«context»</b>	<b>Patient</b>	
<b>Definitie</b>	The patient carrying out the nursing procedure.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:14.2.17	
<b>DCM::ReferencedConceptId</b>	NL-CM:0.1.1	This is a reference to the rootconcept of information model Patient.
<b>Opties</b>		

<b>«context»</b>	<b>Requester::HealthProfessional</b>	
<b>Definitie</b>	The health professional who requested the nursing intervention. If desired, only the requester's specialty can be entered.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:14.2.8	
<b>DCM::ExampleValue</b>	0330 Neurologie	
<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>	Comment on the nursing intervention.	
<b>Datatype</b>	ST	
<b>DCM::ConceptId</b>	NL-CM:14.2.5	
<b>DCM::DefinitionCode</b>	LOINC: 48767-8 Annotation comment	
<b>Opties</b>		

<b>«document»</b>	<b>InterventionNICodelist</b>	
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<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.14.2.2	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.2.4
<b>Opties</b>		
<b>InterventieNICCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.2.2</b>
Codes	Coding Syst. Name	Coding System OID
Alle waarden	NIC	2.16.840.1.113883.6.15

<b>«document»</b>	<b>InterventionSnomedCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.14.2.4	
<b>Opties</b>		
<b>InterventieSnomedCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.2.4</b>
Codes	Coding Syst. Name	Coding System OID
SNOMED CT: <<71388002   procedure	SNOMED CT	2.16.840.1.113883.6.96

## 1.8 Example Instances

<b>VerpleegkundigeInterventie</b>	
Interventie	Pijnmanagement
<b>Indicatie</b>	
ProbleemNaam	Pijn
<b>Behandeldoel</b>	
<b>Streefwaarde</b>	
MetingNaam	Pijnscore
UitslagWaarde	<4
UitslagDatumTijd	10-09-2015
<b>VerpleegkundigeActie</b>	
Activiteit	Ondersteuning van de wond bij hoesten.
ActieStartDatumTijd	10-08-2015
ActieEindDatumTijd	15-08-2015
<b>VerpleegkundigeActie</b>	
Activiteit	Toedienen medicatie volgens voorschrift bij pijnscore > 4.
ActieStartDatumTijd	10-08-2015
<b>Toelichting</b>	
Toelichting	-

## 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. Richtlijn Verpleegkundige en verzorgende verslaglegging (V&VN, 2011) [Online] Beschikbaar op: <http://www.diliguide.nl/document/4060/file/pdf/> [Geraadpleegd: 13 februari 2015]
2. Vreeke E, Klein Wolterink G. *Classificatie- en terminologiestelsels voor verpleegkundige informatie*. Nictiz & NFU (2014). [Geraadpleegd: 13 februari 2015]
3. The Omaha System [Online] Beschikbaar op: <http://www.omhasystem.org/> [Geraadpleegd: 13 februari 2015]
4. Nursing Intervention Classification (NIC) [Online] Beschikbaar op: <http://www.nursing.uiowa.edu/center-for-nursing-classification-and-clinical-effectiveness> [Geraadpleegd: 13 februari 2015]
5. Nursing Outcome Classification (NOC) [Online] Beschikbaar op: <http://www.nursing.uiowa.edu/center-for-nursing-classification-and-clinical-effectiveness> [Geraadpleegd: 13 februari 2015]
6. North American Nursing Diagnosis Association (NANDA) [Online] Beschikbaar op: <http://www.nanda.org/> [Geraadpleegd: 13 februari 2015]
7. International Classification for Nursing Practice (ICNP) [Online] Beschikbaar op: [www.icn.ch](http://www.icn.ch) [Geraadpleegd: 13 februari 2015]
8. International Classification of Functioning, Disability and Health (ICF) [Online] Beschikbaar op: <http://www.rivm.nl/who-fic/icf.htm> [Geraadpleegd: 13 februari 2015]

## 1.16 Functional Model

## 1.17 Traceability to other Standards

## 1.18 Disclaimer

This Health and Care Information Model (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

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