

# Health & Care Information Model:

nl.zorg.NursingIntervention-v4.1

Status: Final

Release: 2024

Release status: Prepublished

Managed by:



# Content

<b>1. nl.zorg.NursingIntervention-v4.1</b> .....	<b>3</b>
1.1 Revision History.....	3
1.2 Concept .....	3
1.3 Mindmap .....	4
1.4 Purpose.....	4
1.5 Patient Population .....	4
1.6 Evidence Base .....	4
1.7 Information Model .....	4
1.8 Example Instances.....	8
1.9 Instructions.....	8
1.10 Interpretation .....	8
1.11 Care Process .....	8
1.12 Example of the Instrument .....	8
1.13 Constraints.....	8
1.14 Issues .....	9
1.15 References .....	9
1.16 Functional Model .....	9
1.17 Traceability to other Standards.....	9
1.18 Disclaimer .....	9
1.19 Terms of Use .....	10
1.20 Copyrights.....	10

# 1. nl.zorg.NursingIntervention-v4.1

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	15-04-2024
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep RadB Verpleegkundige Gegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	09-04-2024
DCM::Supersedes	nl.zorg.VerpleegkundigeInterventie-v4.0.1
DCM::Version	4.1
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.

Publicatieversie 3.2 (01-10-2018)

Bevat: ZIB-728.

Publicatieversie 4.0 (01-12-2021)

Bevat: ZIB-1252, ZIB-1281, ZIB-1483, ZIB-1486, ZIB-1502, ZIB-1510, ZIB-1558.

Publicatieversie 4.0.1 (15-10-2023)

Bevat: ZIB-1974.

Publicatieversie 4.1 (15-04-2024)

Bevat: ZIB-1876.

## 1.2 Concept

A nursing intervention is the care and/or treatment that a nurse performs on the basis of expert judgment and clinical knowledge. It is part of the nursing process; interventions are determined on the basis of indicated care problems (nursing diagnoses) and on the basis of treatment goals. In the home care situation, after instruction, some actions can also be performed by the patient themselves or by a caregiver. In the right context, the concept can describe historical, future and advised nursing interventions.

## 1.3 Mindmap

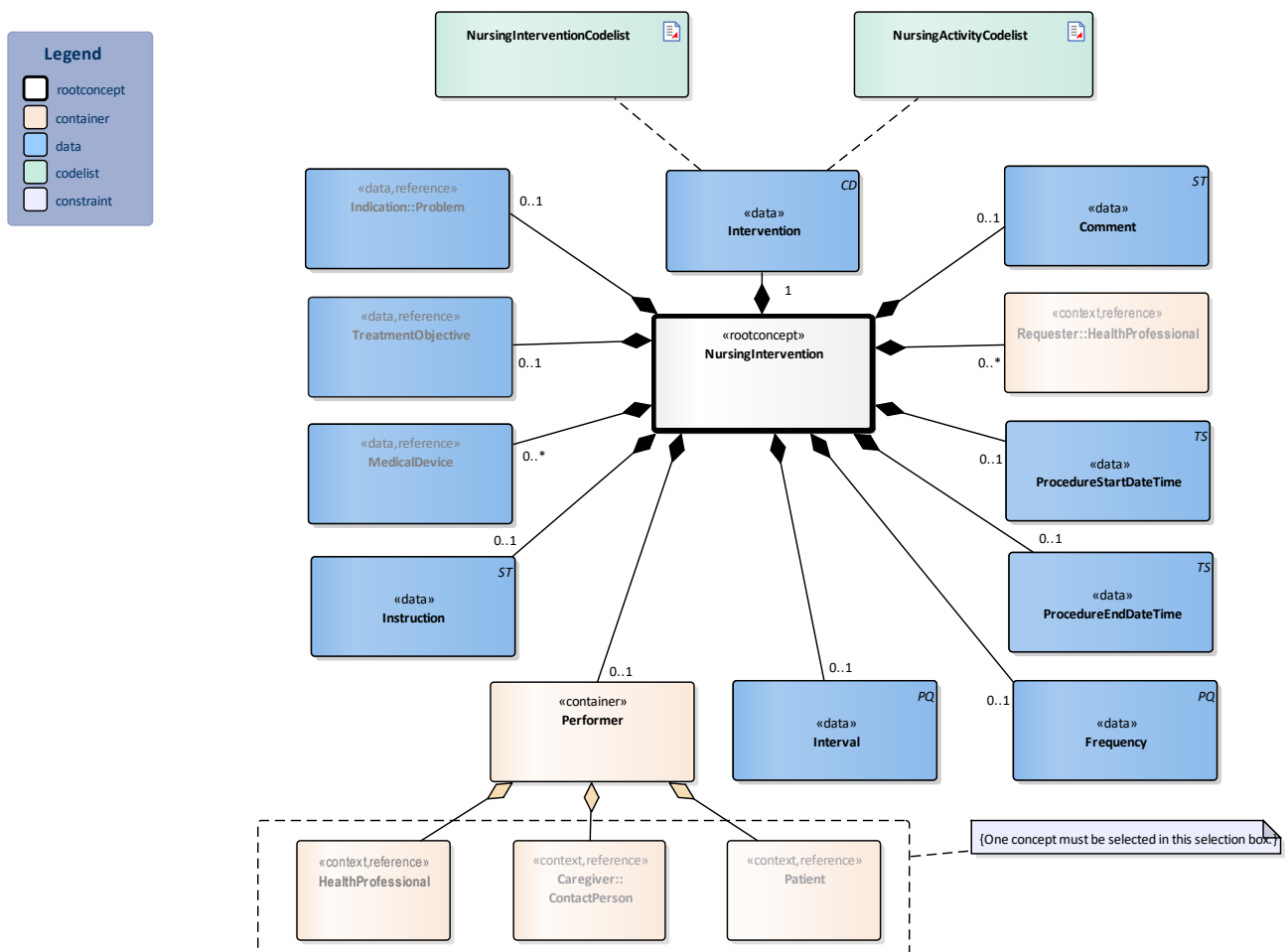
## 1.4 Purpose

Nursing interventions are an essential part of the nursing process. A nursing intervention is recorded to document nursing actions and to inform other healthcare providers. In this way, optimal nursing and continuity of care can be facilitated.

## 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>DCM::DefinitionCode</b>	SNOMED CT:9632001	Nursing procedure

<b>Opties</b>	
---------------	--

<b>«data»</b>	<b>Intervention</b>	
<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. It is possible to build a hierarchy of nursing interventions (where one intervention is part of another).	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:14.2.2	
<b>DCM::ValueSet</b>	NursingActivityCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.2.6
<b>DCM::ValueSet</b>	NursingInterventionCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.2.5
<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>«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>DCM::DefinitionCode</b>	SNOMED CT: 153691000146106 Interval between procedures	
<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>DCM::DefinitionCode</b>	SNOMED CT: 153681000146109 Frequency of procedure	

<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>	
<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>HealthProfessional</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>NursingActivityCodelist</b>		
<b>Definitie</b>			
<b>Datatype</b>			
<b>DCM::ValueSetBinding</b>	Required		
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.6 0.40.2.14.2.6		
<b>HCIM::ValueSetLanguage</b>	--		
<b>Opties</b>			
<b>VerpleegkundigeActiviteitCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.2.6</b>	
<b>Codes</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>	
SNOMED CT: ^733990004   Nursing Activities Reference Set	SNOMED CT	2.16.840.1.113883.6.96	

<b>«document»</b>	<b>NursingInterventionCodelist</b>		
<b>Definitie</b>			
<b>Datatype</b>			
<b>DCM::ValueSetBinding</b>	Required		
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.6 0.40.2.14.2.5		
<b>HCIM::ValueSetLanguage</b>	--		
<b>Opties</b>			
<b>VerpleegkundigeInterventieCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.2.5</b>	

Codes	Coding Syst. Name	Coding System OID
SNOMED CT: ^99051000146107   Dutch nursing intervention simple reference set	SNOMED CT	2.16.840.1.113883.6.96

Legend	
Definitie	
Datatype	
Opties	

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

## 1.8 Example Instances

VerpleegkundigeInterventie	
Interventie	Ondersteunen bij wassen en/of persoonlijke hygiene
ActieStartDatumTijd	10-9-2021
Frequentie	1/dag
Instructie	Let op: valrisico
Indicatie	
ProbleemNaam	Probleem met zichzelf wassen en drogen
ProbleemBeginDatum	28-8-2021
ProbleemStatus	Actueel
Toelichting	Meneer kan niet buigen
Behandeldoel	
GewenstZorgresultaat	Wassen onafhankelijk

## 1.9 Instructions

For the nursing domain: when two parties use different classification systems, the SNOMED CT based Dutch nursing problem list is used for exchange of information, so that data becomes comparable and interchangeable. A mapping table is available from the Dutch nursing problem list to Omaha System, NANDA-I and ICF.

## 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: <https://www.venvn.nl/media/jutbak5v/verple-1.pdf> [Geraadpleegd: 16 januari 2024]
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.omahasystem.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: 16 januari 2024]
8. International Classification of Functioning, Disability and Health (ICF) [Online] Beschikbaar op: <https://www.whoic.n/> [Geraadpleegd: 16 januari 2024]

## 1.16 Functional Model

### 1.17 Traceability to other Standards

The HCIM NursingIntervention is a specialization of the HCIM Procedure.

### 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.

### 1.19 Terms of Use

The user may use the Health and Care Information Models without limitations. The copyright provisions in the paragraph concerned apply to copying, distributing and passing on the Health and Care Information Models.

## 1.20 Copyrights

A Health and Care Information Model qualifies as a work within the meaning of Section 10 of the Copyright Act (Auteurswet). Copyrights protect the Health and Care Information Models and these rights are owned by the cooperating parties.

The user may copy, distribute and pass on the information in this Health and Care Information Model under the conditions that apply for Creative Commons license Attribution-NonCommercial-ShareAlike 3.0 Netherlands (CC BY-NC-SA-3.0).

The content is available under Creative Commons Attribution-NonCommercial-ShareAlike 3.0 (see also <http://creativecommons.org/licenses/by-nc-sa/3.0/nl/>)

This does not apply to information from third parties that sometimes is used and / or referred to in a Health and Care Information Model, for example to an international medical terminology system. Any (copyright) rights that protect this information are not owned by the cooperating parties but by those third parties.

Nictiz is the independent national competence centre for electronic exchange of health and care information. The activities of Nictiz include the targeted development and management of information standards at the request of and in partnership with the stakeholders in healthcare. Nictiz advises these parties on all aspects of information exchange and identifies (future) national and international developments.

**Nictiz**

P.O. Box 19121  
2500 CC Den Haag  
Oude Middenweg 55  
2491 AC Den Haag

070-3173450  
[info@nictiz.nl](mailto:info@nictiz.nl)  
[www.nictiz.nl](http://www.nictiz.nl)

