Health & Care Information Model:

nl.zorg.NursingIntervention-v5.0

Status: Final Release: 2024

Release status: Published

Managed by:



Content

١.	nl.	zorg.NursingIntervention-v5.0	3
	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	9
	1.11	Care Process	9
	1.12	Example of the Instrument	9
	1.13	Constraints	9
	1.14	Issues	9
	1.15	References	9
	1.16	Functional Model	0
	1.17	Traceability to other Standards	0
	1.18	Disclaimer	0
	1.19	Terms of Use	0
	1.20	Copyrights	0

1. nl.zorg.NursingIntervention-v5.0

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	24-04-2024
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep RadB Verpleegkundige Gegevens &
	Kerngroep Registratie aan de Bron
DCM::RevisionDate	07-04-2025
DCM::Supersedes	nl.zorg.VerpleegkundigeInterventie-v4.1
DCM::Version	5.0
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 <u>4.0</u> (01-12-2021)

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

Publicatieversie <u>4.0.1</u> (15-10-2023)

Bevat: ZIB-1974.

Publicatieversie 4.1 (15-04-2024)

Bevat: ZIB-1876.

Publicatieversie <u>5.0</u> (24-04-2024) Bevat: ZIB-2431, ZIB-2627.

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 nursing diagnoses (indicated care problems) 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

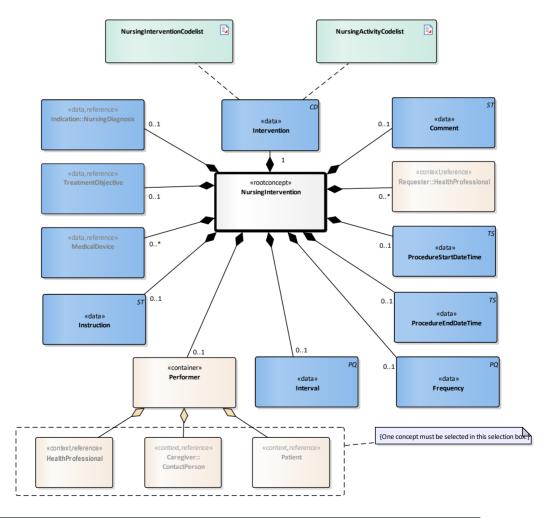
Nursing interventions are an essential part of the nursing process. A nursing intervention is recorded to document nursing actions and to inform other healthcare providers. In this way, optimal nursing and continuity of care can be facilitated.

1.5 Patient Population

1.6 Evidence Base

1.7 Information Model





«rootconcept»	NursingIntervention
Definitie	Root concept of the NursingIntervention information model. This root concept contains all data elements of the NursingIntervention information model.
Datatype	

DCM::ConceptId	NL-CM:14.2.1
DCM::DefinitionCode	SNOMED CT:9632001
	Nursing procedure
Opties	

«data»	Indication::NursingDiagnosis		
Definitie	The nursing diagnosis that serves as the indication for the nursing intervention.		
Datatype			
DCM::ConceptId	NL-CM:14.2.19		
DCM::ReferencedConc	NL-CM:5.8.1	This is a reference to the rootconcept of	
eptId		information model NursingDiagnosis.	
Opties			

«data»	Intervention	
Definitie A nursing intervention is a treatment carried out by a nurse based expert opinion and clinical knowledge for the benefit of the person requesting healthcare. The intervention is targeted towards a cerproblem (diagnosis) and has a predetermined healthcare result. It possible to build a hierarchy of nursing interventions (where one intervention is part of another).		owledge for the benefit of the person tervention is targeted towards a certain a predetermined healthcare result. It is of nursing interventions (where one
Datatype	CD	
DCM::ConceptId	NL-CM:14.2.2	
DCM::ValueSet	NursingInterventionCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.2.5
DCM::ValueSet	NursingActivityCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.2.6
Opties		

«data»	Comment		
Definitie	Comment on the nursing intervention.		
Datatype	ST		
DCM::ConceptId	NL-CM:14.2.5		
DCM::DefinitionCode	LOINC: 48767-8 Annotation		
	comment		
Opties			

«context»	Requester::HealthProfessional		
Definitie	The health professional who requested the nursing intervention. If desired,		
	only the requester's specialty can be entered.		
Datatype			
DCM::ConceptId	NL-CM:14.2.8		
DCM::ExampleValue	0330 Neurologie		
DCM::ReferencedConc	NL-CM:17.1.1	This is a reference to the rootconcept of	
eptId		information model HealthProfessional.	
Opties			

«data»	ProcedureStartDateTime	
Definitie	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.	
Datatype	TS	
DCM::ConceptId	NL-CM:14.2.11	
DCM::ExampleValue	20120605	
Opties		

«data»	ProcedureEndDateTime		
Definitie	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.		
Datatype	TS		
DCM::ConceptId	NL-CM:14.2.12		
DCM::ExampleValue	20120607		
Opties			

«data»	Frequency	
Definitie	The frequency describes how often and in which period certain procedures are carried out, e.g. 3x a day.	
Datatype	PQ	
DCM::ConceptId	NL-CM:14.2.4	
DCM::DefinitionCode	SNOMED CT: 153681000146109 Frequency of procedure	
Opties		

«data»	Interval		
Definitie	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.		
Datatype	PQ		
DCM::ConceptId	NL-CM:14.2.3		
DCM::DefinitionCode	SNOMED CT:		
	153691000146106 Interval		
	between procedures		
Opties			

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

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

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

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

«data»	Instruction	
Definitie	Instructions for performing the nursing action. This is particularly at issue when the action is performed by the patient himself or by a caregiver.	
Datatype	ST	
DCM::ConceptId	NL-CM:14.2.18	
Opties		

«data»	MedicalDevice		
Definitie	Description of the materials used for the nursing procedure, such as		
	bandages.		
Datatype			
DCM::ConceptId	NL-CM:14.2.13		
DCM::ReferencedConc	NL-CM:10.1.1	This is a reference to the rootconcept of	
eptId		information model MedicalDevice.	
Opties			

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

«document»	NursingActivityCodelist
Definitie	
Datatype	
DCM::ValueSetBinding	Required
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6
	0.40.2.14.2.6
DCM::ValueSetInclude	True
OTH	
DCM::ValueSetStatus	Active
HCIM::ValueSetLangu	
age	
Opties	

VerpleegkundigeActiviteitCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.2.6	
Codes	Coding Syst. Name	Coding System OID
SNOMED CT: ^733990004 Nursing Activities	SNOMED CT	2.16.840.1.113883.6.96
Reference Set		

«document»	NursingInterventionCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		

DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6	
	0.40.2.14.2.5	
DCM::ValueSetInclude	True	
OTH		
DCM::ValueSetStatus	Active	
HCIM::ValueSetLangu		
age		
Opties		

VerpleegkundigeInterventieCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.14.2.5	
Codes		ding Syst. Name	Coding System OID
SNOMED CT: ^99051000146107 Dutch nursing	SN	OMED CT	2.16.840.1.113883.6.96
intervention simple reference set			

	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 hygiëne		
ActieStartDatumTijd	10-9-2021		
Frequentie	1/dag		
Instructie	Let op: valrisico		
Indicatie			
VerpleegkundigeDiagnose	Probleem met zichzelf wassen en drogen		
BeginDatum	28-8-2021		
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.

- "Interval": for an implemented set of interventions, an instantiation of the zib can consist of a main intervention with its own end and start date. The sub-interventions that fall under the main intervention can be considered as their own instantiations of the zib. It is customary to link them to each other in the implementation/information standard. The concept of "Interval" is not explicitly modeled for performed sets of interventions because an interval applies only to a planned set of interventions. The instantiations of the partial interventions have then already taken place;
- "Frequency": for an executed series of interventions, an instantiation of the zib may consist of a main intervention with its own end and start date. The partial interventions covered by the main intervention

- can be considered own instantiations of the zib. It is customary to link them to each other in the implementation/information standard. The concept of "Frequency" is not explicitly modeled for performed sets of interventions because an interval applies only to a planned set of interventions. The instantiations of the partial interventions have then already taken place;
- "Start Date" and 'End Date': based on the Start Date and End Date, it is not always possible to distinguish between interventions that have yet to be implemented, that are ongoing, that have been completed, or that were instantaneous. In the implementation/information standard this distinction should be made, for example via a status field (the expectation is then that a status field is present which can be used in the translation from the zib to the implementation as for example in FHIR):
- For an implemented (series of) intervention(s), a Start Date without End Date can mean that the intervention(series) is still ongoing, or that it is a momentarily implemented intervention. This requires additional status entry (as described above);
- ♦ A planned one-time intervention has at least a Start Date and optionally an End Date. Frequency and Interval are absent in this case. Additional status entry is not needed here (but can be clarifying to send along to indicate that the intervention is still open). It is recommended to add the End Date when it is known:
- ◆ A scheduled series of interventions has at least a Start Date and an Interval or Frequency, and optionally an End Date. If the Start Date is in the past, and the End Date is in the future or absent, then the sequence is in execution. If the End Date is in the past, then the sequence is closed. Additional status entry is not needed here (but can be clarifying to send along to indicate that the intervention is still open). It is recommended to add the End Date when it is known.

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 [Geraadpleegd: 16 januari 2024]

8. International Classification of Functioning, Disability and Health (ICF) [Online] Beschikbaar op: https://www.whofic.nl/ [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 Modesl 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-NCSA-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 www.nictiz.nl

