

# Health & Care Information Model: nl.zorg.DevelopmentChild-v1.1

Status:Final

Release:2019

Release status: Prepublished

Managed by:



# Content

<b>1. nl.zorg.DevelopmentChild-v1.1</b>	<b>3</b>
1.1 Revision History	3
1.2 Concept	3
1.3 Mindmap	3
1.4 Purpose	3
1.5 Patient Population	3
1.6 Evidence Base	4
1.7 Information Model	4
1.8 Example Instances	9
1.9 Instructions	9
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	9
1.17 Traceability to other Standards	9
1.18 Disclaimer	10
1.19 Terms of Use	10
1.20 Copyrights	10

# 1. nl.zorg.DevelopmentChild-v1.1

DCM::CoderList	Werkgroep RadB Verpleegkundige Gegevens
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Werkgroep RadB Verpleegkundige Gegevens
DCM::CreationDate	11-5-2016
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.4.32
DCM::KeywordList	Ontwikkeling, kind
DCM::LifecycleStatus	Final
DCM::ModelerList	Werkgroep RadB Verpleegkundige Gegevens
DCM::Name	nl.zorg.OntwikkelingKind
DCM::PublicationDate	06-07-2019
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep RadB Verpleegkundige Gegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	31-12-2017
DCM::Supersedes	nl.zorg.OntwikkelingKind-v1.0
DCM::Version	1.1
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (04-09-2017)

Publicatieversie 1.1 (31-12-2017)

Bevat: ZIB-646.

## 1.2 Concept

Information on the development and growth of a child is important in determining the kind of care that should be provided to the child and the family. When the child is being transferred, continuity of care can be achieved. Information can provide insight in the process of development and whether the child has a developmental delay.

## 1.3 Mindmap

## 1.4 Purpose

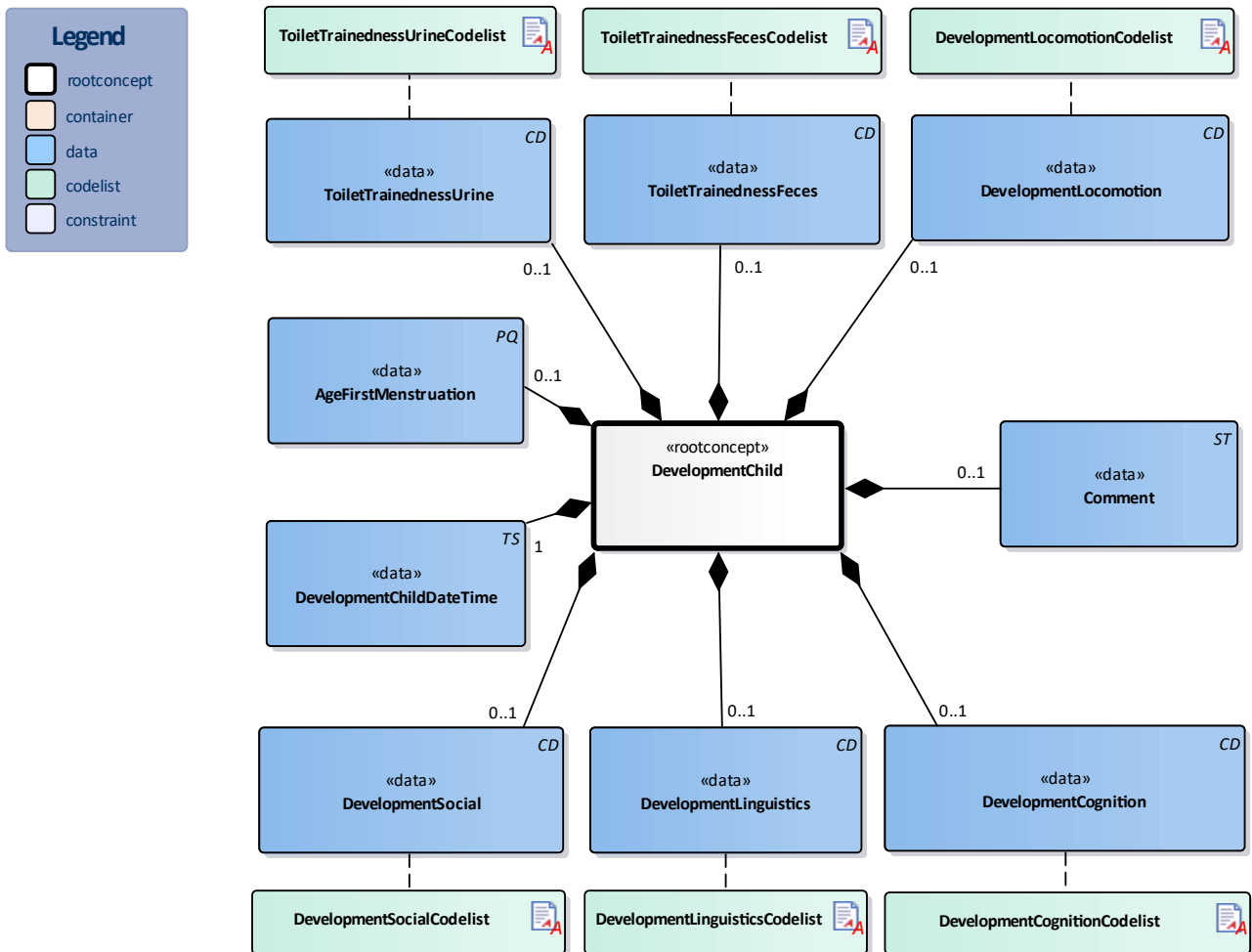
Information about milestones within the normal development and growth of a child can provide insight in the process of development and whether the child has a developmental delay. This concerns a general impression and description of the development of the child without judgement of quality, different from the very specific evaluation of the development as is normal in youth health care. The purpose is to provide the receiving organisation a basis for further evaluation and care of the child.

## 1.5 Patient Population

## 1.6 Evidence Base

The definitions of the concepts and value lists were partially based on (i.e. phrased for practical use) information gathered from the Van Wiechen scheme, the NCJ guideline Toilet Trainedness of urine and feces, and information from the VKS ([www.ontwikkelingsachterstand.nl](http://www.ontwikkelingsachterstand.nl)).

## 1.7 Information Model



«rootconcept»	DevelopmentChild	
<b>Definitie</b>	Root concept of the DevelopmentChild information model. This root concept contains all data elements of the DevelopmentChild Einformation model.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:4.32.1	
<b>DCM::DefinitionCode</b>	SNOMED CT: 251803000  Child developmental finding	
<b>Opties</b>		

«data»	DevelopmentChildDateTime	
<b>Definitie</b>	The date and time on which the status of the development of the child are registered.	
<b>Datatype</b>	TS	
<b>DCM::ConceptId</b>	NL-CM:4.32.2	
<b>Opties</b>		

«data»	ToiletTrainednessUrine	
Definitie	Degree of toilet trainedness for urine.	
Datatype	CD	
DCM::ConceptId	NL-CM:4.32.4	
DCM::DefinitionCode	SNOMED CT: 275819003 Bladder control - child	
DCM::ExampleValue	Volledig zindelijk	
DCM::ValueSet	ToiletTrainednessUrineCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.1
Opties		

«data»	ToiletTrainednessFeces	
Definitie	Degree of toilet trainedness for feces.	
Datatype	CD	
DCM::ConceptId	NL-CM:4.32.5	
DCM::DefinitionCode	SNOMED CT: 275818006 Bowel control - child	
DCM::ExampleValue	Niet zindelijk	
DCM::ValueSet	ToiletTrainednessFecesCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.2
Opties		

«data»	AgeFirstMenstruation	
Definitie	The age of the start of the first menstruation.	
Datatype	PQ	
DCM::ConceptId	NL-CM:4.32.7	
DCM::DefinitionCode	LOINC: 42798-9 Age at menarche	
Opties		

«data»	DevelopmentLocomotion	
Definitie	Milestones of locomotive development of a child.	
Datatype	CD	
DCM::ConceptId	NL-CM:4.32.6	
DCM::DefinitionCode	SNOMED CT: 282716004 Gross motor functions	
DCM::ExampleValue	Kan kruipen	
DCM::ValueSet	DevelopmentLocomotionCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.3
Opties		

«data»	DevelopmentSocial	
Definitie	Milestones of social development of a child.	
Datatype	CD	
DCM::ConceptId	NL-CM:4.32.8	
DCM::DefinitionCode	SNOMED CT: 225597007 Ability to interact with others	
DCM::ExampleValue	Speelt geven en nemen	
DCM::ValueSet	DevelopmentSocialCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.4
Opties		

«data»	DevelopmentLinguistics	
Definitie	Milestones of lingual development of a child.	
Datatype	CD	
DCM::ConceptId	NL-CM:4.32.9	
DCM::DefinitionCode	SNOMED CT: 61909002 Speech and language observable	
DCM::ExampleValue	Brabbelt	
DCM::ValueSet	DevelopmentLinguisticsCode list	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.5
Opties		

«data»	DevelopmentCognition	
Definitie	Milestones of cognitive development of a child.	
Datatype	CD	
DCM::ConceptId	NL-CM:4.32.10	
DCM::DefinitionCode	SNOMED CT: 364644000 Functional observable	
DCM::ExampleValue	Kan beredeneerde keuzes maken	
DCM::ValueSet	DevelopmentCognitionCode list	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.6
Opties		

«data»	Comment	
Definitie	Comment on the development of the child.	
Datatype	ST	
DCM::ConceptId	NL-CM:4.32.3	
DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	
Opties		

«document»	DevelopmentLocomotionCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.32.3	
Opties		

OntwikkelingMotoriekCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.3		
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
Able to roll over	282632008	SNOMED CT	2.16.840.1.113883.6.96	Draait van buik naar rug en andersom
Able to crawl	282607006	SNOMED CT	2.16.840.1.113883.6.96	Kan kruipen
Able to sit unsupported	302040002	SNOMED CT	2.16.840.1.113883.6.96	Kan zelfstandig zitten
Able to pull to standing from sitting	282888002	SNOMED CT	2.16.840.1.113883.6.96	Trekt zich op tot staan
Independent walking	165245003	SNOMED CT	2.16.840.1.113883.6.96	Kan zonder hulp lopen

«document»	DevelopmentSocialCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.32.4	
Opties		

OntwikkelingSociaalCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.4		
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
Smiles back	47041000146107	SNOMED CT	2.16.840.1.113883.6.96	Lacht terug
Able to give and take	26281000146106	SNOMED CT	2.16.840.1.113883.6.96	Speelt geven en nemen
Able to play with other children	26301000146107	SNOMED CT	2.16.840.1.113883.6.96	Kan spelen met andere kinderen
Able to make friends	26291000146108	SNOMED CT	2.16.840.1.113883.6.96	Kan vrienden maken
Able to show empathy	26321000146104	SNOMED CT	2.16.840.1.113883.6.96	Kan zich inleven in anderen

«document»	DevelopmentLinguisticsCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.32.5	
Opties		

OntwikkelingTaalCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.5		
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
Speech babble	258116008	SNOMED CT	2.16.840.1.113883.6.96	Brabbelt
Able to comprehend short daily used sentences	26261000146103	SNOMED CT	2.16.840.1.113883.6.96	Begrijpt korte dagelijks gebruikte zinnen
Able to speak short daily used sentences	26341000146105	SNOMED CT	2.16.840.1.113883.6.96	Spreekt korte dagelijks gebruikte zinnen
Speaks intelligibly for acquaintances	26361000146106	SNOMED CT	2.16.840.1.113883.6.96	Is verstaanbaar voor bekenden
Speaks intelligibly for strangers	26371000146100	SNOMED CT	2.16.840.1.113883.6.96	Is verstaanbaar voor onbekenden

«document»	DevelopmentCognitionCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.32.6	
Opties		

OntwikkelingVerstandelijkCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.6		
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
Able to think abstractly	281136009	SNOMED CT	2.16.840.1.113883.6.96	Kan abstract denken
Able to problem solve	716433009	SNOMED CT	2.16.840.1.113883.6.96	Kan zelf problemen

				oplossen
Wide level of interest	26381000146103	SNOMED CT	2.16.840.1.113883.6.96	Heeft brede interesse
Able to recognize consequences of behaviour	26311000146109	SNOMED CT	2.16.840.1.113883.6.96	Heeft inzicht in gevolgen van eigen gedrag
Able to make considered choices	304687006	SNOMED CT	2.16.840.1.113883.6.96	Kan beredeneerde keuzes maken

«document»		ToiletTrainednessFecesCodelist		
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.32.2			
Opties				
ZindelijkheidFecesCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.2		
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
No control of bowel - child	26421000146106	SNOMED CT	2.16.840.1.113883.6.96	Niet zindelijk
Occassional bowel accident - child	26441000146100	SNOMED CT	2.16.840.1.113883.6.96	Af en toe een ongelukje
Full control of bowel - child	26401000146103	SNOMED CT	2.16.840.1.113883.6.96	Volledig zindelijk

«document»		ToiletTrainednessUrineCodelist		
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.32.1			
Opties				
ZindelijkheidUrineCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.1		
Concept Name	Concept Code	CodeSys. Name	CodeSystem OID	Description
No control of bladder - child	26411000146101	SNOMED CT	2.16.840.1.113883.6.96	Niet zindelijk
Full control of bladder only in daytime	29261000146107	SNOMED CT	2.16.840.1.113883.6.96	Zindelijk overdag, 's nacht niet
Occassional bladder accident - child	26431000146108	SNOMED CT	2.16.840.1.113883.6.96	Af en toe een ongelukje
Full control of bladder - child	26391000146101	SNOMED CT	2.16.840.1.113883.6.96	Volledig zindelijk

Legend	
Definitie	
Datatype	
Opties	



## 1.8 Example Instances

OntwikkelingKind	
ZindelijkheidUrine	Niet zindelijk
ZindelijkheidFeces	Niet zindelijk
LeeftijdEersteMenstruatie	-
OntwikkelingMotoriek	Trekt zich op tot staan
OntwikkelingSociaal	Speelt geven en nemen
OntwikkelingTaal	Begrijpt korte dagelijkse zinnen
OntwikkelingVerstandelijk	Kan verbanden leggen
OntwikkelingKindDatumTijd	19-12-2016
Toelichting	Kind is heel beweeglijk

## 1.9 Instructions

Examples for evaluating the speech development of the child:

- Able to comprehend short daily used sentences: "Put on your coat"
- Able to speak short daily used sentences: 2-3 words

## 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

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.