

# **Health & Care Information Model:**

## **nl.zorg.DevelopmentChild-v1.3**

Status: Final

Release status: Prepublished

# Content

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# 1. nl.zorg.DevelopmentChild-v1.3

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	15-10-2023
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep RadB Verpleegkundige Gegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	01-06-2022
DCM::Supersedes	nl.zorg.OntwikkelingKind-v1.2
DCM::Version	1.3
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (04-09-2017)

Publicatieversie 1.1 (31-12-2017)

Bevat: ZIB-646.

Publicatieversie 1.2 (31-01-2020)

Bevat: ZIB-844.

Publicatieversie 1.3 (10-06-2022)

Bevat: ZIB-1765.

## 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

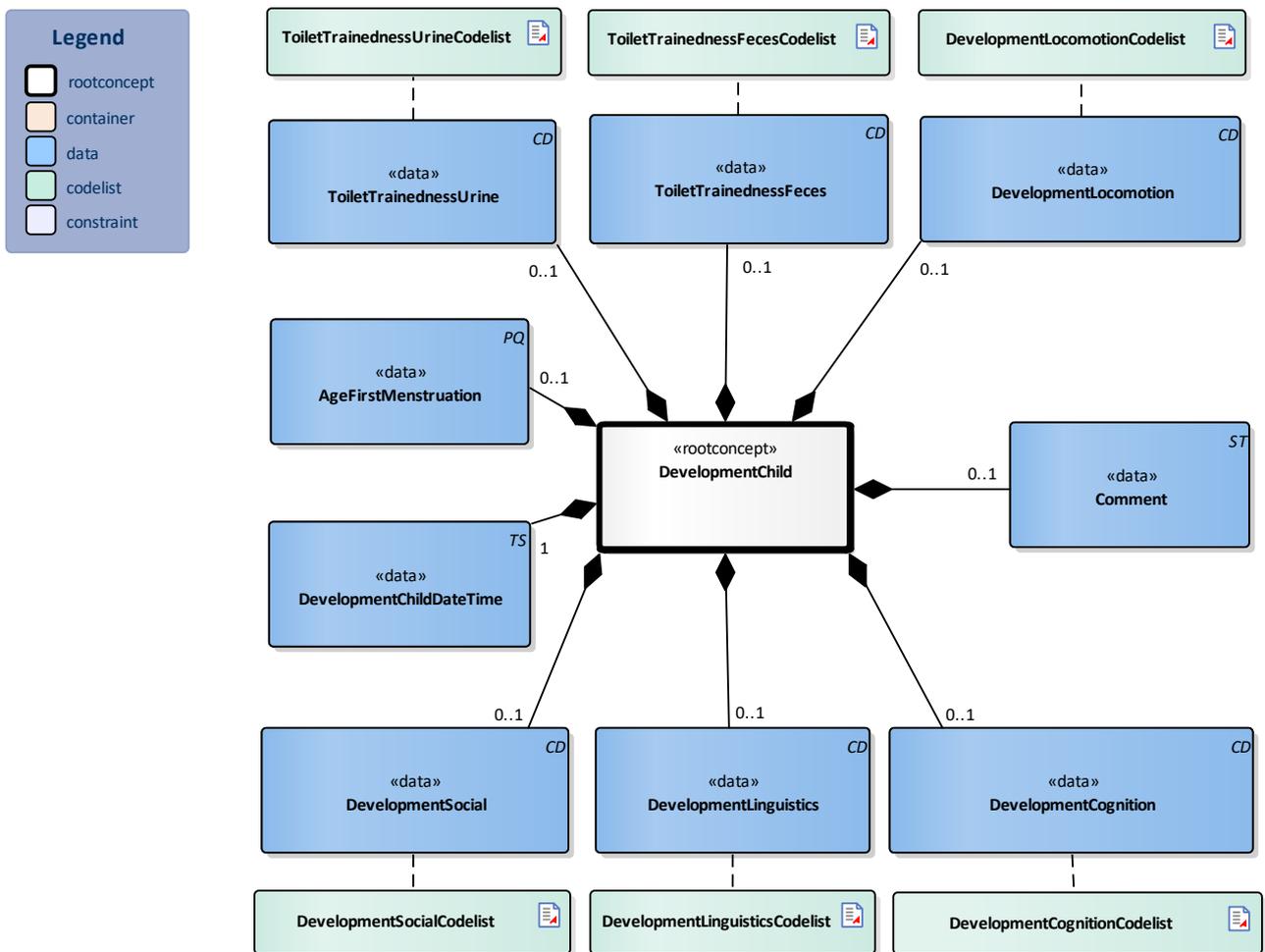
very specific evaluation of the development as is normal in youth health care. The purpose is to provide the receiving organisation a basis for further evaluation and care of the child.

## 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



<b>«rootconcept»</b>	<b>DevelopmentChild</b>	
<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>		

<b>«data»</b>	<b>DevelopmentChildDateTime</b>	
<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>	

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

<b>«data»</b>	<b>ToiletTrainednessFeces</b>
<b>Definitie</b>	Degree of toilet trainedness for feces.
<b>Datatype</b>	CD
<b>DCM::ConceptId</b>	NL-CM:4.32.5
<b>DCM::DefinitionCode</b>	SNOMED CT: 129008009 Bowel control
<b>DCM::ExampleValue</b>	Niet zindelijk
<b>DCM::ValueSet</b>	ToiletTrainednessFecesCodeList OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.2
<b>Opties</b>	

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

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

<b>«data»</b>	<b>DevelopmentSocial</b>
<b>Definitie</b>	Milestones of social development of a child.
<b>Datatype</b>	CD
<b>DCM::ConceptId</b>	NL-CM:4.32.8
<b>DCM::DefinitionCode</b>	SNOMED CT: 225597007 Ability to interact with others
<b>DCM::ExampleValue</b>	Speelt geven en nemen

<b>DCM::ValueSet</b>	DevelopmentSocialCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.4
<b>Opties</b>		

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

<b>«data»</b>	<b>DevelopmentCognition</b>	
<b>Definitie</b>	Milestones of cognitive development of a child.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:4.32.10	
<b>DCM::DefinitionCode</b>	SNOMED CT: 311465003 Cognitive functions	
<b>DCM::ExampleValue</b>	Kan beredeneerde keuzes maken	
<b>DCM::ValueSet</b>	DevelopmentCognitionCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.6
<b>Opties</b>		

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

<b>«document»</b>	<b>DevelopmentLocomotionCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.4.32.3	
<b>HCIM::ValueSetLanguage</b>	--	
<b>Opties</b>		

<b>OntwikkelingMotoriekCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.3</b>		
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			
HCIM::ValueSetLanguage	--			
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			
HCIM::ValueSetLanguage	--			
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
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«document» DevelopmentCognitionCodelist				
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.32.6			
HCIM::ValueSetLanguage	--			
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			
HCIM::ValueSetLanguage	--			
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
Occasional 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			



<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.6 0.40.2.4.32.1		
<b>HCIM::ValueSetLanguage</b>	--		
<b>Opties</b>			
<b>ZindelijkheidUrineCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.32.1</b>	
<b>Concept Name</b>	<b>Concept Code</b>	<b>CodeSys. Name</b>	<b>CodeSystem OID</b>
			<b>Description</b>
No control of bladder - child	2641100014610 1	SNOMED CT	2.16.840.1.113883.6.9 6
Full control of bladder only in daytime	2926100014610 7	SNOMED CT	2.16.840.1.113883.6.9 6
Occasional bladder accident - child	2643100014610 8	SNOMED CT	2.16.840.1.113883.6.9 6
Full control of bladder - child	2639100014610 1	SNOMED CT	2.16.840.1.113883.6.9 6

	<b>Legend</b>
<b>Definitie</b>	
<b>Datatype</b>	
<b>Opties</b>	

## 1.8 Example Instances

<b>OntwikkelingKind</b>	
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**

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