

Health & Care Information Model:

nl.zorg.DevelopmentChild-v2.0

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1. nl.zorg.DevelopmentChild-v2.0

DCM::CoderList	Werkgroep RadB Verpleegkundige Gegevens
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DCM::ContentAuthorList	Werkgroep RadB Verpleegkundige Gegevens
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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.

Publicatieversie 2.0 (15-04-2024)

Bevat: ZIB-2271.

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

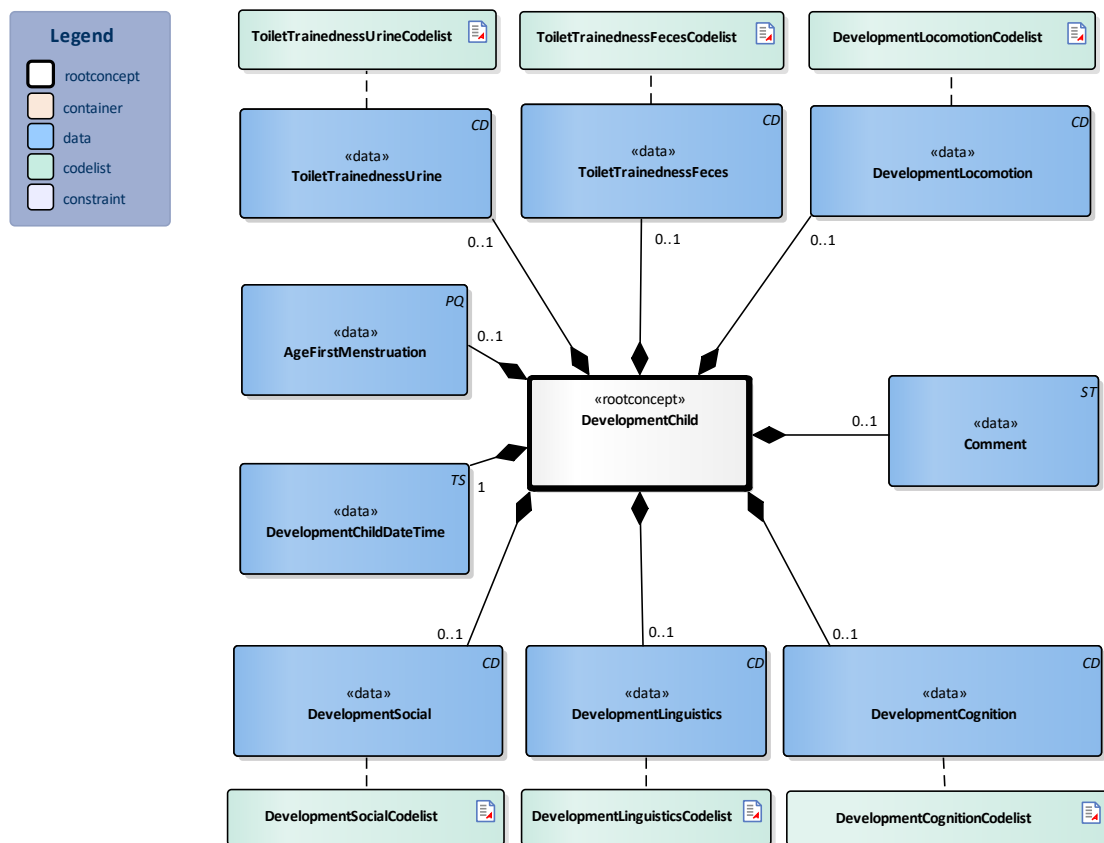
Information about milestones within the normal development and growth of a child can provide insight in the process of development and whether the child has a developmental delay. This concerns a general impression and description of the development of the child without judgement of quality, different 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).

1.7 Information Model



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

«data»	DevelopmentChildDateTime	
Definitie	The date and time on which the status of the development of the child are	

	registered.
Datatype	TS
DCM::ConceptId	NL-CM:4.32.2
Opties	

«data»	ToiletTrainednessUrine
Definitie	Degree of toilet trainedness for urine.
Datatype	CD
DCM::ConceptId	NL-CM:4.32.4
DCM::DefinitionCode	SNOMED CT: 129009001 Bladder control
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: 129008009 Bowel control
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: 311465003 Cognitive functions	
DCM::ExampleValue	Kan beredeneerde keuzes maken	
DCM::ValueSet	DevelopmentCognitionCodelist	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	
HCIM::ValueSetLanguage	--	
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			
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			

DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.4.32.1		
HCIM::ValueSetLanguage	--		
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
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
			Description
			Niet zindelijk
			Zindelijk overdag, 's nacht niet
			Af en toe een ongelukje
			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

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