

# **Health & Care Information Model:**

**nl.zorg.StrongKidsScore-v1.1**

Status: Final

Release status: Prepublished

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## 1. nl.zorg.StrongKidsScore-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	28-7-2016
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	zorg
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.4.28
DCM::KeywordList	Ondervoeding, ondervoedingsscore, StrongKids, malnutrition
DCM::LifecycleStatus	Final
DCM::ModelerList	Werkgroep RadB Verpleegkundige Gegevens
DCM::Name	nl.zorg.StrongKidsScore
DCM::PublicationDate	15-10-2023
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep RadB Verpleegkundige Gegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	09-01-2020
DCM::Supersedes	nl.zorg.StrongKidsScore-v1.0
DCM::Version	1.1
HCIM::PublicationLanguage	EN

### 1.1 Revision History

Publicatieversie 1.0 (04-09-2017)

Publicatieversie 1.1 (31-01-2020)

Bevat: ZIB-932.

### 1.2 Concept

The StrongKids score is a (validated) measuring tool for determining the extent of a child's malnutrition. StrongKids is developed to recognize and treat malnutrition in children aged > 1 month to 18 years in a hospital setting.

The tool comprises four questions, each of which is assigned a score. The total score determines the extent of malnutrition.

(STRONGkids= Screening Tool Risk On Nutritional Status and Growth)

### 1.3 Mindmap

### 1.4 Purpose

The StrongKids score is used to determine the extent of malnutrition or the risk of malnutrition. To treat malnutrition quickly and effectively, it is important to identify the malnutrition at an early stage.

### 1.5 Patient Population

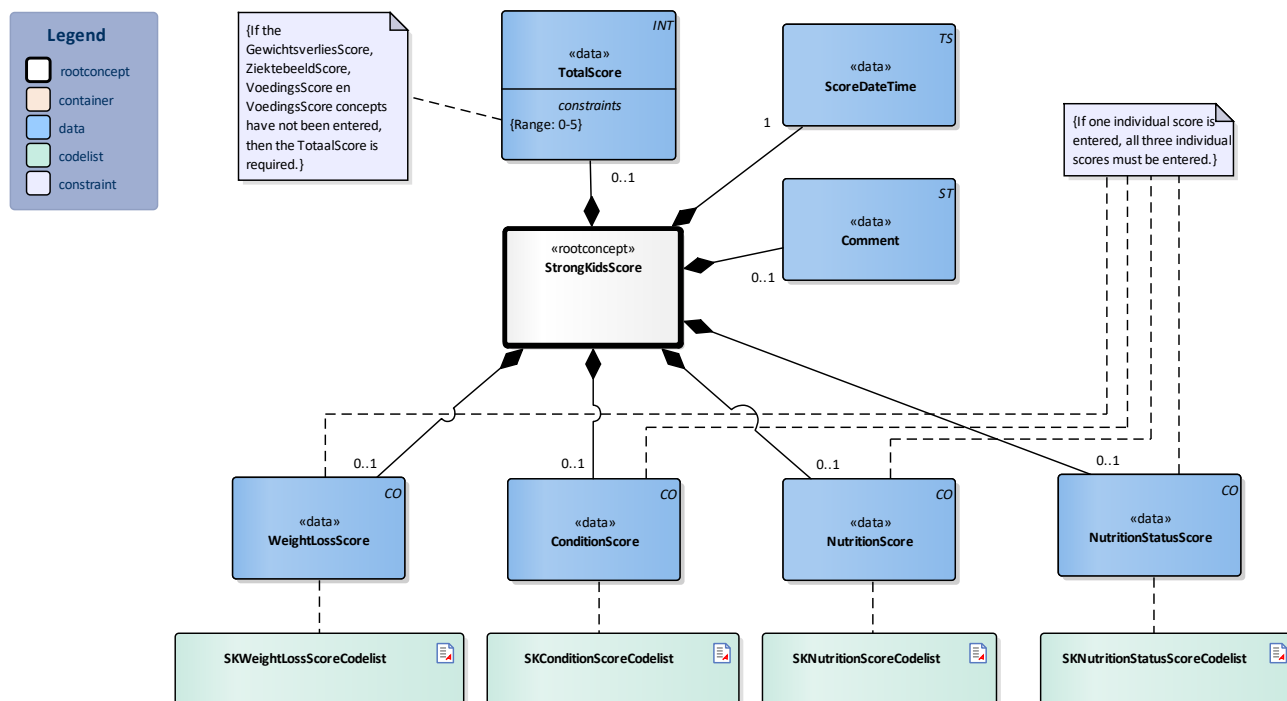
The StrongKids screening is meant for patients aged 1 month to 18 years of age who are admitted to the hospital.

## 1.6 Evidence Base

To determine the extent of malnutrition, SNAQ has a number of tools, validated for different settings:

- The SNAQ was developed for adults admitted to hospital
- The SNAQ65+ was developed for the group of seniors (> over 65) who live at home and who may make use of care at home.
- The SNAQrc (Short Nutritional Assessment Questionnaire for Residential Care) is available for screening for malnutrition in nursing and retirement homes.
- The STRONGkids tool is available for screening for malnutrition among children.

## 1.7 Information Model



«rootconcept»	StrongKidsScore	
Definitie	Root concept of the StrongKidsScore information model. This root concept contains all data elements of the StrongKidsScore information model.	
Datatype		
DCM::ConceptId	NL-CM:4.28.1	
DCM::DefinitionCode	SNOMED CT: 108341000146107 STRONGkids risk screening tool	
Opties		

«data»	TotalScore	
Definitie	The total score is the sum of all the individual scores. The total score has a range from 0 - 5.	
Datatype	INT	
DCM::ConceptId	NL-CM:4.28.2	
DCM::DefinitionCode	SNOMED CT: 108911000146107 Short Nutritional Questionnaire total score	
Opties		

<b>Constraint</b>	Range: 0-5	Voeg hier de Engelse definitie in
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«data»	ScoreDateTime	
<b>Definitie</b>	The date and time at which the StrongKids score was determined.	
<b>Datatype</b>	TS	
<b>DCM::ConceptId</b>	NL-CM:4.28.6	
<b>Opties</b>		

«data»	Comment	
<b>Definitie</b>	A comment on the circumstances during the measurement.	
<b>Datatype</b>	ST	
<b>DCM::ConceptId</b>	NL-CM:4.28.7	
<b>DCM::DefinitionCode</b>	LOINC: 48767-8 Annotation comment	
<b>Opties</b>		

«data»	WeightLossScore	
<b>Definitie</b>	The score based on undesired weight loss or arrest in growth or weight gain over the past weeks to month(s).	
<b>Datatype</b>	CO	
<b>DCM::ConceptId</b>	NL-CM:4.28.3	
<b>DCM::DefinitionCode</b>	ScoreObservaties: 4028003 StrongKidsScore WeightLossScore	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
<b>DCM::ValueSet</b>	SKWeightLossScoreCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.28.1
<b>Opties</b>		

«data»	ConditionScore	
<b>Definitie</b>	The score based on the presence of a condition that can cause an increased risk of malnutrition. A list with conditions with increased risk is given is reference [1]	
<b>Datatype</b>	CO	
<b>DCM::ConceptId</b>	NL-CM:4.28.4	
<b>DCM::DefinitionCode</b>	ScoreObservaties: 4028004 StrongKidsScore ConditionScore	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
<b>DCM::ValueSet</b>	SKConditionScoreCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.28.2
<b>Opties</b>		

«data»	NutritionScore	
<b>Definitie</b>	The score based on the presence of aspects that indicate a deteriorated nutrition status: - excessive diarrhea and/or vomiting - use of fluid or enteral nutrition - reduced intake of food during the past 1-3 days - obstruction of food intake by pain	
<b>Datatype</b>	CO	
<b>DCM::ConceptId</b>	NL-CM:4.28.5	
<b>DCM::DefinitionCode</b>	ScoreObservaties: 4028005 StrongKidsScore NutritionScore	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1

DCM::ValueSet	SKNutritionScoreCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.28.3
Opties		

«data»	NutritionStatusScore	
Definitie	The score gives an indication of the nutrition status of the patient based on the professional opinion of the healthcare professional.	
Datatype	CO	
DCM::ConceptId	NL-CM:4.28.8	
DCM::DefinitionCode	ScoreObservaties: 4028008 StrongKidsScore NutritionStatusScore	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	SKNutritionStatusScoreCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.28.4
Opties		

«document»	SKWeightLossScoreCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.28.1	
HCIM::ValueSetLanguage	EN	
Opties		

SKGewichtsverliesScoreCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.28.1		
Concept Name	Concept Value	Concept Code	CodeSys. Name	CodeSystem OID	Description
NoLoss	0	G0	SK_Gewichtsverlies	2.16.840.1.113883.2.4.3.11.60.40.4.17.1	Geen gewichtsverlies of stilstand in groei/gewicht
LossOfWeight	1	G2	SK_Gewichtsverlies	2.16.840.1.113883.2.4.3.11.60.40.4.17.1	Gewichtsverlies of stilstand in groei/gewicht aanwezig

«document»	SKConditionScoreCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.28.2	
HCIM::ValueSetLanguage	EN	
Opties		

SKZiektebeeldScoreCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.28.2		
Concept Name	Concept Value	Concept Code	CodeSys. Name	CodeSystem OID	Description
NoRisk	0	R0	SK_Ziektebeeld	2.16.840.1.113883.2.4.3.11.60.40.4.17.2	Geen ziektebeeld met verhoogd risico
IncreasedRisk	2	R1	SK_Ziektebeeld	2.16.840.1.113883.2.4.3.11.60.40.4.17.2	Ziektebeeld met verhoogd risico aanwezig

«document»		SKNutritionScoreCodelist			
Definitie					
Datatype					
DCM::ValueSetBinding		Required			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.4.28.3			
HCIM::ValueSetLanguage		NL			
Opties					
SKVoedingsScoreCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.28.3		
Concept Name	Concept Value	Concept Code	CodeSys. Name	CodeSystem OID	Description
Normaal	0	Z0	SK_Voeding	2.16.840.1.113883.2.4.3.11.60.40.4.17.3	Normale voedselinname
Verminderd	1	Z1	SK_Voeding	2.16.840.1.113883.2.4.3.11.60.40.4.17.3	Verminderde voedselinname

«document»		SKNutritionStatusScoreCodelist			
Definitie					
Datatype					
DCM::ValueSetBinding		Required			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.4.28.4			
HCIM::ValueSetLanguage		NL			
Opties					
SKVoedingstoestandCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.28.4		
Concept Name	Concept Value	Concept Code	CodeSys. Name	CodeSystem OID	Description
Goed	0	T0	SK_Voedingstoestand	2.16.840.1.113883.2.4.3.11.60.40.4.17.4	Goede voedingstoestand
Slecht	1	T1	SK_Voedingstoestand	2.16.840.1.113883.2.4.3.11.60.40.4.17.4	Slechte voedingstoestand

Legend	
Definitie	
Datatype	
Opties	

Constraint	
Definitie	
If one individual score is entered, all three individual scores must be entered.	
Datatype	
Opties	

	Constraint
<b>Definitie</b>	If the GewichtsverliesScore, ZiektebeeldScore, VoedingsScore en VoedingsScore concepts have not been entered, then the TotaalScore is required.
<b>Datatype</b>	
<b>Opties</b>	

## 1.8 Example Instances

StrongKidsScore	
ScoreDatumTijd	12-12-2016
GewichtsverliesScore	0 (Geen gewichtverlies of stilstand in groei/ gewicht)
ZiektebeeldScore	2 (Ziektebeeld met verhoogd risico aanwezig)
VoedingsScore	0 (Normale voedselinname)
VoedingstoestandScore	0 (Goede voedingstoestand)
TotaalScore	2
Toelichting	-

## 1.9 Instructions

## 1.10 Interpretation

## 1.11 Care Process

## 1.12 Example of the Instrument

## 1.13 Constraints

## 1.14 Issues

## 1.15 References

1. StrongKids, Stuurgroep Ondervoeding [Online] Beschikbaar op:  
<http://www.stuurgroepondervoeding.nl/toolkits/screeningsinstrument> [Geraadpleegd: 28 juli 2016]

## 1.16 Functional Model

## 1.17 Traceability to other Standards



## 1.18 Disclaimer

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