

# Health & Care Information Model:

nl.zorg.SNAQrcScore-v1.3

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# Content

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# 1. nl.zorg.SNAQrcScore-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	28-7-2016
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	zorg
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.4.29
DCM::KeywordList	Ondervoeding, ondervoedingsscore, SNAQ, SNAQrc, malnutrition
DCM::LifecycleStatus	Final
DCM::ModelerList	Werkgroep RadB Verpleegkundige Gegevens
DCM::Name	nl.zorg.SNAQrcScore
DCM::PublicationDate	24-04-2024
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep RadB Verpleegkundige Gegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	09-04-2024
DCM::Supersedes	nl.zorg.SNAQrcScore-v1.2
DCM::Version	1.3
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (04-09-2017)

Publicatieversie 1.1 (31-01-2020)  
Bevat: ZIB-930.

Publicatieversie 1.2 (10-06-2022)  
Bevat: ZIB-1633, ZIB-1635.

Publicatieversie 1.3 (15-04-2024)  
Bevat: ZIB-2058.

## 1.2 Concept

The Short Nutritional Assessment Questionnaire for Residential Care (SNAQrc is a (validated) measuring tool for determining the extent of a patient's malnutrition. The tool comprises four questions, each of which is assigned a score. The total score determines the extent of malnutrition.

The SNAQrc helps to recognize and treat malnutrition at an early stage.

Four varieties of the measuring tool were developed for different care settings: hospitals (adults & children), nursing and retirement homes and independently living seniors. This concept describes the tool intended for the nursing and retirement homes setting.

## 1.3 Mindmap

## 1.4 Purpose

The SNAQrcscore 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

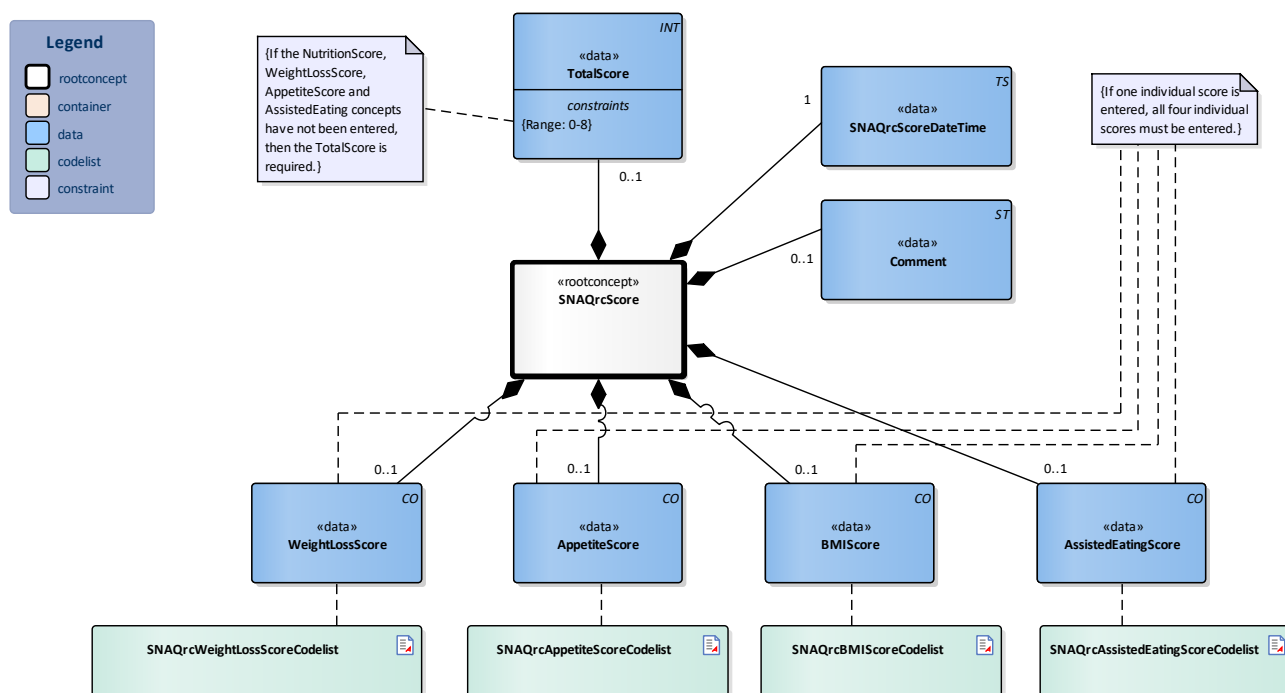
The SNAQrc is meant for patients over 18 years of age who are staying in nursing and retirement homes.

## 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 (age 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»	SNAQrcScore	
<b>Definitie</b>	Root concept of the SNAQrcScore information model. This root concept contains all data elements of the SNAQrcScore information model.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:4.29.1	
<b>DCM::DefinitionCode</b>	SNOMED CT: 108311000146106 Short Nutritional Questionnaire for residential care	
<b>Opties</b>		

«data»	WeightLossScore	
<b>Definitie</b>	The score based on undesired weight loss over the past month(s).	
<b>Datatype</b>	CO	
<b>DCM::ConceptId</b>	NL-CM:4.29.3	

<b>DCM::DefinitionCode</b>	ScoreObservaties: 4029003 SNAQrcScore WeightLossScore	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
<b>DCM::ValueSet</b>	SNAQrcWeightLossScoreCod elist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.29.1
<b>Opties</b>		

<b>«data»</b>	<b>AppetiteScore</b>	
<b>Definitie</b>	The score based on a reduced appetite over the past month.	
<b>Datatype</b>	CO	
<b>DCM::ConceptId</b>	NL-CM:4.29.4	
<b>DCM::DefinitionCode</b>	ScoreObservaties: 4029004 SNAQrcScore AppetiteScore	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
<b>DCM::ValueSet</b>	SNAQrcAppetiteScoreCodelis t	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.29.2
<b>Opties</b>		

<b>«data»</b>	<b>BMI</b>	
<b>Definitie</b>	The score based on the BMI of the patient. For a BMI >28 (overweight) the score is not applicable.	
<b>Datatype</b>	CO	
<b>DCM::ConceptId</b>	NL-CM:4.29.5	
<b>DCM::DefinitionCode</b>	ScoreObservaties: 4029005 SNAQrcScore BMIScore	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
<b>DCM::ValueSet</b>	SNAQrcBMIScoreCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.29.3
<b>Opties</b>		

<b>«data»</b>	<b>AssistedEatingScore</b>	
<b>Definitie</b>	The score based on the ability of the patient to eat and drink without assistance.	
<b>Datatype</b>	CO	
<b>DCM::ConceptId</b>	NL-CM:4.29.8	
<b>DCM::DefinitionCode</b>	ScoreObservaties: 4029008 SNAQrcScore AssistedEatingScore	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
<b>DCM::ValueSet</b>	SNAQrcAssistedEatingScoreC odelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.29.4
<b>Opties</b>		

<b>«data»</b>	<b>TotalScore</b>	
<b>Definitie</b>	The total score is the sum of all the individual scores. The total score has a range from 0 - 8. The relation between the value of the total score and the color outcome of the score tool is: 0 = green 1 = orange 2 and higher = red.	
<b>Datatype</b>	INT	
<b>DCM::ConceptId</b>	NL-CM:4.29.2	
<b>DCM::DefinitionCode</b>	SNOMED CT: 108901000146105 Short Nutritional Questionnaire for residential care total score	
<b>Opties</b>		

<b>Constraint</b>	Range: 0-8	
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<b>«data»</b>	<b>SNAQrcScoreDateTime</b>	
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<b>Definitie</b>	The date and time at which the SNAQrc score was determined.	
<b>Datatype</b>	TS	
<b>DCM::ConceptId</b>	NL-CM:4.29.6	
<b>Opties</b>		

<b>«data»</b>	<b>Comment</b>	
<b>Definitie</b>	A comment on the circumstances during the measurement.	
<b>Datatype</b>	ST	
<b>DCM::ConceptId</b>	NL-CM:4.29.7	
<b>DCM::DefinitionCode</b>	LOINC: 48767-8 Annotation comment	
<b>Opties</b>		

<b>«document»</b>	<b>SNAQrcWeightLossScoreCodelist</b>		
<b>Definitie</b>			
<b>Datatype</b>			
<b>DCM::ValueSetBinding</b>	Required		
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.6 0.40.2.4.29.1		
<b>DCM::ValueSetInclude OTH</b>	False		
<b>DCM::ValueSetStatus</b>	Active		
<b>HCIM::ValueSetLanguage</b>	EN		
<b>Opties</b>			

<b>SNAQrcGewichtsverliesScoreCodelijst</b>				<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.29.1</b>	
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
LossLow	G0	0	SNAQrc_Gewichtsverlies	2.16.840.1.113883.2.4.3.11.60.40.4.19.1	Geen gewichtsverlies
LossAverage	G1	2	SNAQrc_Gewichtsverlies	2.16.840.1.113883.2.4.3.11.60.40.4.19.1	Meer dan 6 kg in de laatste 6 maanden
LossHigh	G2	2	SNAQrc_Gewichtsverlies	2.16.840.1.113883.2.4.3.11.60.40.4.19.1	Meer dan 3 kg in de laatste maand
LossBothAverageAndHigh	G3	4	SNAQrc_Gewichtsverlies	2.16.840.1.113883.2.4.3.11.60.40.4.19.1	Meer dan 3 kg in de laatste maand EN Meer dan 6 kg in de laatste 6 maanden

<b>«document»</b>	<b>SNAQrcAppetiteScoreCodelist</b>				
<b>Definitie</b>					
<b>Datatype</b>					
<b>DCM::ValueSetBinding</b>	Required				
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.6 0.40.2.4.29.2				
<b>DCM::ValueSetInclude OTH</b>	False				
<b>DCM::ValueSetStatus</b>	Active				
<b>HCIM::ValueSetLanguage</b>	NL				
<b>Opties</b>					
<b>SNAQrcEetlustScoreCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.29.2</b>			
Concept Name	Concept Value	Concept Code	CodeSys. Name	CodeSystem OID	Description

Eetlust	0	B0	SNAQrc_Eetlust	2.16.840.1.113883.2.4.3.11.60.40.4.19.2	Normale eetlust
GeenEetlust	1	B1	SNAQrc_Eetlust	2.16.840.1.113883.2.4.3.11.60.40.4.19.2	Verminderde eetlust de afgelopen maand

«document»		SNAQrcBMIScoreCodelist			
Definitie					
Datatype					
DCM::ValueSetBinding	Required				
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.29.3				
DCM::ValueSetIncludeOTH	False				
DCM::ValueSetStatus	Active				
HCIM::ValueSetLanguage	NL				
Opties					
SNAQrcBMIScoreCodelistijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.29.3			
Concept Name	Concept Value	Concept Code	CodeSys. Name	CodeSystem OID	Description
Ondergewicht	2	B2	SNAQrc_BMI	2.16.840.1.113883.2.4.3.11.60.40.4.19.3	Ondergewicht (BMI<20)
TeLicht	1	B1	SNAQrc_BMI	2.16.840.1.113883.2.4.3.11.60.40.4.19.3	Te Licht (20 <=BMI <22)
Gezond	0	B0	SNAQrc_BMI	2.16.840.1.113883.2.4.3.11.60.40.4.19.3	Gezond (22 <=BMI <28)

«document»		SNAQrcAssistedEatingScoreCodelist			
Definitie					
Datatype					
DCM::ValueSetBinding	Required				
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.4.29.4				
DCM::ValueSetIncludeOTH	False				
DCM::ValueSetStatus	Active				
HCIM::ValueSetLanguage	NL				
Opties					
SNAQrcHulpBijEtenScoreCodelistijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.4.29.4			
Concept Name	Concept Value	Concept Code	CodeSys. Name	CodeSystem OID	Description
Independent feeding	0	165224005	SNOMED CT	2.16.840.1.113883.6.96	Onafhankelijk
Feeding assisted	1	129033007	SNOMED CT	2.16.840.1.113883.6.96	Hulp nodig

Legend	
Definitie	
Datatype	

<b>Opties</b>	
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Constraint	
<b>Definitie</b>	If one individual score is entered, all four individual scores must be entered.
<b>Datatype</b>	
<b>Opties</b>	

Constraint	
<b>Definitie</b>	If the NutritionScore, WeightLossScore, AppetiteScore and AssistedEating concepts have not been entered, then the TotalScore is required.
<b>Datatype</b>	
<b>Opties</b>	

## 1.8 Example Instances

SNAQ <sup>RC</sup> score (verpleeghuis)		
Datum	27-01-2013	
Opmerking		
Item	Score	Beschrijving
Gewichtsverlies	2	Meer dan 6 kg in de laatste 6 maanden
BMI	1	BMI tussen 20-22 kg/m <sup>2</sup>
Eetlust	1	Verminderde eetlust
Hulp bij eten	0	Geen hulp bij eten
Totaalscore	Score	Scorekleur
SNAQ <sup>RC</sup> Score	4	Rood

## 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. Stuurgroep Ondervoeding [Online] Beschikbaar op: <http://www.stuurgroepondervoeding.nl/>  
[Geraadpleegd: 16 december 2016]

## 1.16 Functional Model

## 1.17 Traceability to other Standards

## 1.18 Disclaimer

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