Health & Care Information Model:

nl.zorg.FLACCpainScale-v1.2.1

Status: Final
Release: 2024
Release status: Prepublished

Managed by:

Content

1. nl.zorg.FLACCpainScale-v1.2.1

DCM::CoderList	Werkgroep RadB Verpleegkundige Gegevens
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Werkgroep RadB Verpleegkundige Gegevens
DCM::CreationDate	1-8-2016
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	zorg
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.12.13
DCM::KeywordList	Pijnscore, assessment, FLACC
DCM::LifecycleStatus	Final
DCM::ModelerList	Werkgroep RadB Verpleegkundige Gegevens
DCM::Name	nl.zorg.FLACCpijnScore
DCM::PublicationDate	15-04-2024
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep RadB Verpleegkundige Gegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	04-09-2023
DCM::Supersedes	nl.zorg.FLACCpijnScore-v1.2
DCM::Version	1.2.1
HCIM::PublicationLanguage	EN

1.1 Revision History

Publicatieversie 1.0 (04-09-2017)

Publicatieversie 1.1 (31-01-2020)
Bevat: ZIB-926.

Publicatieversie 1.2 (10-06-2022)
Bevat: ZIB-1622, 1682.

Publicatieversie 1.2.1 (15-10-2023)
Bevat: ZIB-1999.

1.2 Concept

The FLACC (Faces, Legs, Activity, Cry and Consolability) is a pain assessment tool, that is used to assess pain in children aged 0-7 years old by observing their behaviour.
The FLACC has five subscales that need to be addressed. The final score indicates whether the observed child suffers pain and 'how much'. The score is often combined with an NRS-score that is completed by the nurses on basis of clinical experience.

1.3 Mindmap

1.4 Purpose

A pain assessment instrument is a tool in determining the intensity of pain and can be useful in order to determine the effectiveness of pain treatment interventions (pharmacological or non-pharmacological). For young children, it is nevertheless difficult to differentiate between pain or distress/anxiety. This difference is

relevant in determining the treatment. The score on a pain assessment instrument remains a snapshot in time.

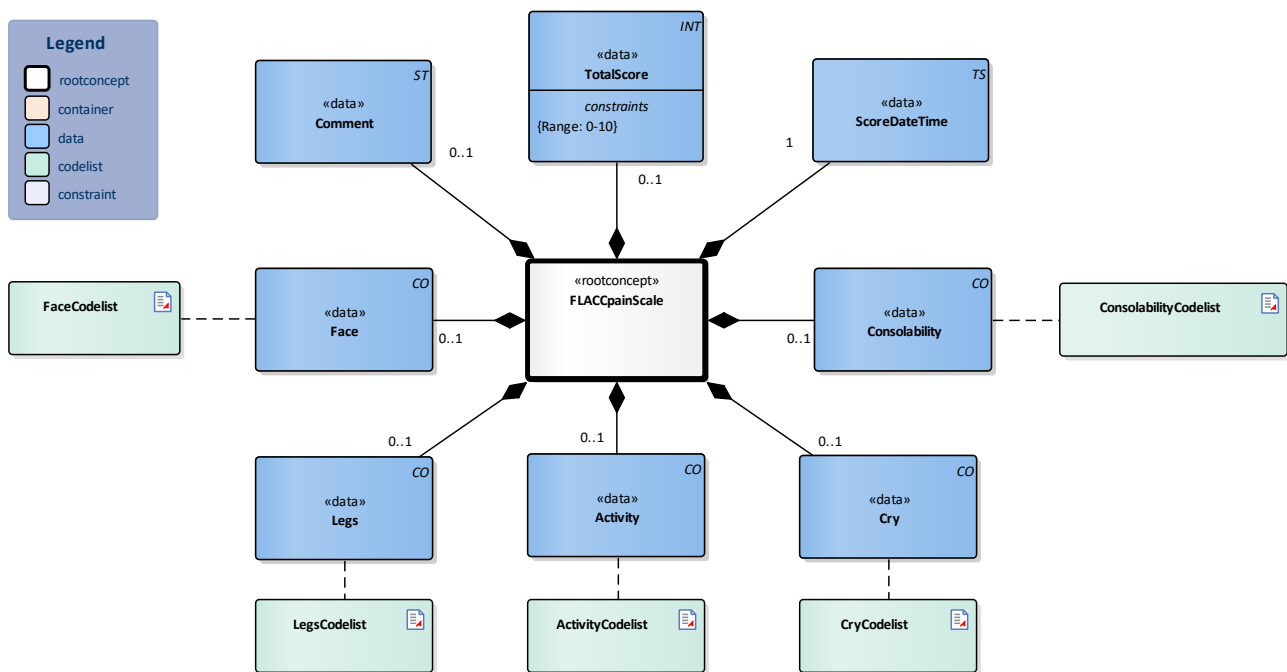## 1.5 Patient Population

The FLACC pain scale is used to assess pain in children between the ages of 0 and 7 years.

1.6 Evidence Base

For assessing the degree of pain in children with difficulty expressing themselves a number of pain observation instruments exist:

- CPB
- Comfort Behaviour Scale/ Comfortneo Scale
- FLACC

1.7 Information Model

«rootconcept»	FLACCpainScale
Definitie	Root concept of the FLACCpainScale information model.This root concept contains all data elements of the FLACCpainScale information model. Root concept of the FLACCpainScale information model. This root concept contains all data elements of the FLACCpainScale information model.
Datatype	
DCM::ConceptId	NL-CM:12.13.1
DCM::DefinitionCode	SNOMED CT: 108291000146105 FLACC pain scale
Opties	

«data»	TotalScore
Definitie	The total score is the sum of all the individual scores. The total score has a range from 0 - 10.
Datatype	INT
DCM::ConceptId	NL-CM:12.13.2

DCM::DefinitionCode	SNOMED CT: 49091000146109 FLACC score	
Opties		
Constraint	Range: 0-10	Voeg hier de Engelse definitie in

«data»	Face	
Definitie	Observation face: the extent to which the child's expression on the face is tensed, grimace, tension of jaws.	
Datatype	CO	
DCM::ConceptId	NL-CM:12.13.3	
DCM::DefinitionCode	ScoreObservaties: 12013003 FLACCpainScale Face	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	FaceCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.13.1
Opties		

«data»	Legs	
Definitie	Observation legs: the extent to which the child is restless (body and legs).	
Datatype	CO	
DCM::ConceptId	NL-CM:12.13.4	
DCM::DefinitionCode	ScoreObservaties: 12013004 FLACCpainScale Legs	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	LegsCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.13.2
Opties		

«data»	Activity	
Definitie	Observation activity: the extent to which the child is restless and has tense muscles.	
Datatype	CO	
DCM::ConceptId	NL-CM:12.13.5	
DCM::DefinitionCode	ScoreObservaties: 12013005 FLACCpainScale Activity	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	ActivityCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.13.3
Opties		

«data»	Cry	
Definitie	Observation crying: the extent to which the child is crying, whimpers or laments.	
Datatype	CO	
DCM::ConceptId	NL-CM:12.13.6	
DCM::DefinitionCode	ScoreObservaties: 12013006 FLACCpainScale Cry	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	CryCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.13.4
Opties		

«data»	Consolability	
Definitie	Observation consolability: the extent to which the child is consolable.	
Datatype	CO	
DCM::ConceptId	NL-CM:12.13.9	

DCM::DefinitionCode	ScoreObservaties: 12013009 FLACCpainScale Consolability	OID: 2.16.840.1.113883.2.4.3.11.60.40.4.0.1
DCM::ValueSet	ConsolabilityCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.13.5
Opties		

«data»	ScoreDateTime	
Definitie	The date and time at which the FLACC score was determined.	
Datatype	TS	
DCM::ConceptId	NL-CM:12.13.11	
Opties		

«data»	Comment	
Definitie	A comment on the circumstances during the measurement.	
Datatype	ST	
DCM::ConceptId	NL-CM:12.13.12	
DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	
Opties		

«document»	ActivityCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.12.13.3	
HCIM::ValueSetLanguage	EN	
Opties		

ActiviteitCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.13.3		
Concept Name	Concept Code	Concept Value	CodeSys. Name	CodeSystem OID	Description
Lying quiet	Act0	0	FLACC_Activiteit	2.16.840.1.113883.2.4.3.11.60.40.4.21.3	Ligt rustig, in een normale houding, maakt rustige bewegingen
Squirming	Act1	1	FLACC_Activiteit	2.16.840.1.113883.2.4.3.11.60.40.4.21.3	Kronkelt, wringt zich in bochten, verandert steeds van houding, is gespannen
Arched	Act2	2	FLACC_Activiteit	2.16.840.1.113883.2.4.3.11.60.40.4.21.3	Overstrekt zich, trekt een holle rug of ligt ineengekrompen, is verstijfd of maakt schokkende bewegingen

«document»	FaceCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.12.13.1	
HCIM::ValueSetLanguage	EN	
Opties		

GezichtCodelijst				OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.13.1	
Concept Name	Concept Code	Concept Value	CodeSys. Name	CodeSystem OID	Description
No particular expression	Face0	0	FLACC_Gezicht	2.16.840.1.113883.2.4.3.11.60.40.4.21.1	Vertoont geen specifieke expressie of glimlach
Occasional grimace	Face1	1	FLACC_Gezicht	2.16.840.1.113883.2.4.3.11.60.40.4.21.1	Fronst af en toe of trekt een grimas, is teruggetrokken, ongeïnteresseerd
Frequent to constant frown	Face2	2	FLACC_Gezicht	2.16.840.1.113883.2.4.3.11.60.40.4.21.1	Fronst regelmatig tot voortdurend, klemt de kaken op elkaar, heeft een trillende kin

«document»	ConsolabilityCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.12.13.5	
HCIM::ValueSetLanguage	EN	
Opties		

TroostbaarCodelijst				OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.13.5	
Concept Name	**Concept Code**	**Concept Value**	**CodeSys. Name**	**CodeSystem OID**	**Description**
Content	Cons0	0	FLACC_Troostbaar	2.16.840.1.113883.2.4.3.11.60.40.4.21.5	Is tevreden, ontspannen
Consolable, distractable	Cons1	1	FLACC_Troostbaar	2.16.840.1.113883.2.4.3.11.60.40.4.21.5	Is te troosten door af en toe aan te raken, te knuffelen of toe te spreken; laat zich afleiden
Difficult to console	Cons2	2	FLACC_Troostbaar	2.16.840.1.113883.2.4.3.11.60.40.4.21.5	Is moeilijk te troosten of op te beuren

«document»	LegsCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.12.13.2	
HCIM::ValueSetLanguage	EN	
Opties		

BenenCodelijst				OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.13.2	
Concept Name	Concept Code	Concept Value	CodeSys. Name	CodeSystem OID	Description
Normal position	Legs0	0	FLACC_Benen	2.16.840.1.113883.2.4.3.11.60.40.4.21.2	Normale houding en/of ontspannen
Restless	Legs1	1	FLACC_Benen	2.16.840.1.113883.2.4.3.11.60.40.4.21.2	Ongemakkelijk, onrustig, gespannen

Kicking	Legs2	2	FLACC_Benen	2.16.840.1.113883.2.4.3.11.60.40.4.21.2	Schopt of heeft opgetrokken benen

«document»	CryCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.12.13.4	
HCIM::ValueSetLanguage	EN	
Opties		

HuilenCodelijst				OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.13.4	
Concept Name	**Concept Code**	**Concept Value**	**CodeSys. Name**	**CodeSystem OID**	**Description**
No cry	Cry0	0	FLACC_Huilen	2.16.840.1.113883.2.4.3.11.60.40.4.21.4	Huilt niet (wakker of slapend)
Moans	Cry1	1	FLACC_Huilen	2.16.840.1.113883.2.4.3.11.60.40.4.21.4	Kreunt, kermt of jengelt; klaagt af en toe
Crying constantly	Cry2	2	FLACC_Huilen	2.16.840.1.113883.2.4.3.11.60.40.4.21.4	Huilt voortdurend, schreeuwt of jammert, klaagt veelvuldig

	Legend
Definitie	
Datatype	
Opties	

1.8 Example Instances

FLACCpijnScore	
ScoreDatumTijd	21-12-2016 12:05
Gezicht	1 (Fronst af en toe of trekt een grimas, is teruggetrokken, ongeïnteresseerd)
Benen	2 (Schopt of heeft opgetrokken benen)
Activiteit	1 (Kronkelt, wringt zich in bochten, verandert steeds van houding, is gespannen)
Huilen	0 (Huilt niet (wakker of slapend))
Troostbaar	2 (Is moeilijk te troosten of op te beuren)
Totaalscore	6
Toelichting	Controle voor toediening pijnmedicatie.

1.9 Instructions

1.10 Interpretation

Interpretation of the total score:
0: relaxed and comfortable
1–3: mild discomfort
4–6: moderate pain
7–10: severe discomfort or pain or both

1.11 Care Process

1.12 Example of the Instrument

1.13 Constraints

1.14 Issues

1.15 References

1. Stichting Kind&Pijn [Online] Beschikbaar op: http://www.kind-pijn.org/ [Geraadpleegd: 2 augustus 2016]
2. Richtlijn Pijnmeting en Behandeling van pijn bij kinderen, NVK, 2007 [Online] Beschikbaar op:
https://www.nvk.nl/Kwaliteit/Richtlijnenoverzicht/Details/tabid/1558/articleType/ArticleView/articleId/760/Pijn-meting-en-behandeling-van.aspx [Geraadpleegd: 21 december 2016]

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 Modesl 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-NCSA-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.

Nictiz is the independent national competence centre for electronic exchange of health and care information. The activities of Nictiz include the targeted development and management of information standards at the request of and in partnership with the stakeholders in healthcare. Nictiz advises these parties on all aspects of information exchange and identifies (future) national and international developments.

Better health through better information