

Health & Care Information Model:

nl.zorg.FLACCpainScale-v1.2.1

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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 | 23-04-2025 |
| DCM::PublicationStatus | Published |
| 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

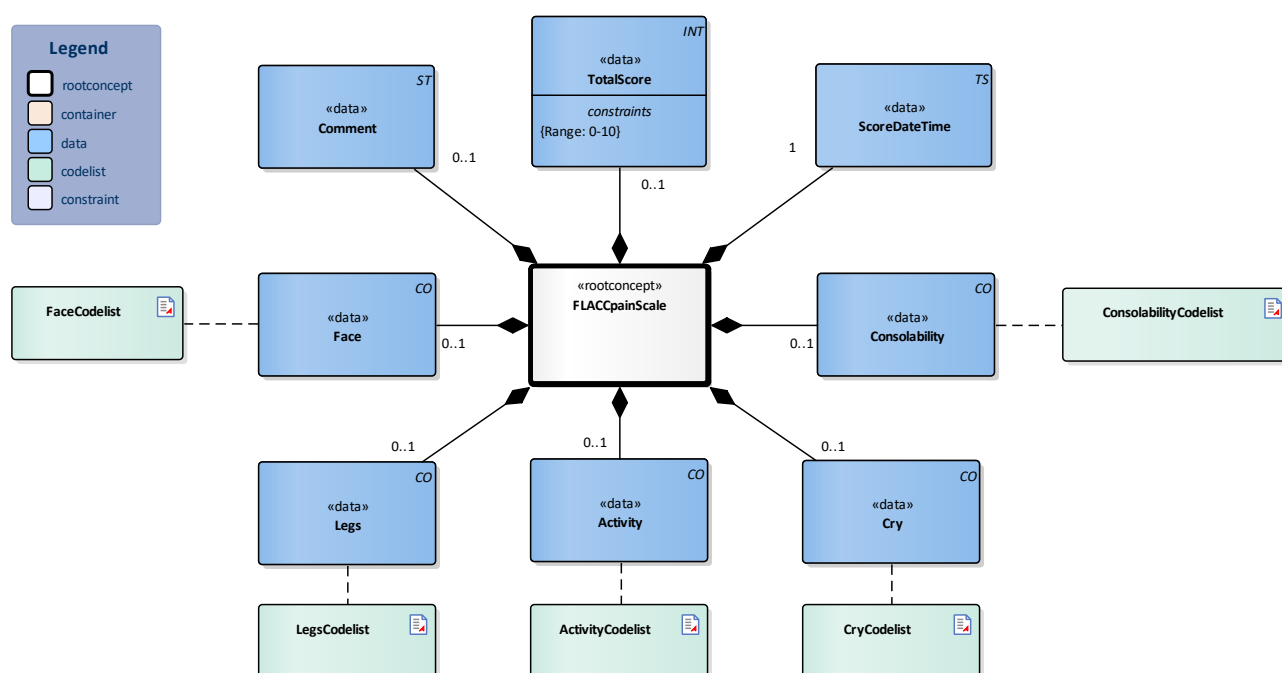
The FLACC pain scale is used to assess pain in children between the ages of 0 and 7 years.

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 | 2.16.840.1.113883.2.4.3.11.6 0.40.2.12.13.3 | | |
| DCM::ValueSetInclude OTH | False | | |
| DCM::ValueSetStatus | Active | | |
| 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 | 2.16.840.1.113883.2.4.3.11.6 0.40.2.12.13.1 | | |

| | | | | | |
|---------------------------------|--------------|---------------|--|---|--|
| DCM::ValueSetInclude OTH | False | | | | |
| DCM::ValueSetStatus | Active | | | | |
| 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 | | | | |
| DCM::ValueSetInclude OTH | False | | | | |
| DCM::ValueSetStatus | Active | | | | |
| 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 | | | | |
| DCM::ValueSetInclude OTH | False | | | | |
| DCM::ValueSetStatus | Active | | | | |

| 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 | | | |
| DCM::ValueSetIncludeOTH | | False | | | |
| DCM::ValueSetStatus | | Active | | | |
| 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

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