

# **Health & Care Information Model:**

## **nl.zorg.GlasgowComaScale-v3.3**

Status: Final

Release status: Prepublished

# Content

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# 1. nl.zorg.GlasgowComaScale-v3.3

DCM::CoderList	Kerngroep Registratie aan de Bron
DCM::ContactInformation.Address	*
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DCM::ContentAuthorList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
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DCM::DescriptionLanguage	nl
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DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.12.8
DCM::KeywordList	Glasgow coma schaal
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DCM::Supersedes	nl.zorg.GlasgowComaScale-v3.2
DCM::Version	3.3
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (15-02-2013)

-

Publicatieversie 1.1 (01-07-2013)

-

Publicatieversie 1.2 (01-04-2015)

Bevat: ZIB-227, ZIB-228, ZIB-229, ZIB-230, ZIB-231, ZIB-232, ZIB-308, ZIB-311, ZIB-361.

Incl. algemene wijzigingsverzoeken:

ZIB-94, ZIB-154, ZIB-200, ZIB-201, ZIB-309, ZIB-324, ZIB-326.

Publicatieversie 1.2.1 (16-07-2015)

Bevat: ZIB-414.

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-453

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-431, ZIB-466, ZIB-564.

Publicatieversie 3.2 (01-09-2020)

Bevat: ZIB-1050, ZIB-1085.

Publicatieversie 3.3 (01-12-2021)

Bevat: ZIB-1314.

## 1.2 Concept

Fifteen-point scale for expressing a person's level of consciousness, from fully awake to deep unconsciousness, in a number: the so-called EMV score.

The Glasgow Coma Scale score or EMV (Eye-Motor-Verbal) score is a scale to measure the extent of consciousness, based on eye, verbal and motor responses to specific prescribed sound and pain stimuli.

## 1.3 Mindmap

## 1.4 Purpose

The GCS score provides the opportunity to document a clinical observation of a patient's conscious state with a validated instrument which makes use of a patient's responses to stimuli.

## 1.5 Patient Population

## 1.6 Evidence Base

The Glasgow Coma Scale is used to evaluate a patient's consciousness by means of three elements:

1. opening eyes (eye response);
2. answering questions (verbal response);
3. motor response.

The three response values are looked at individually and as a whole. The total is referred to as the EMV score. The minimum total score is 3 and the maximum is 15. A slightly altered scale is used for infants (age 0-2) and toddlers (age 2-5).

The EMV score can be expressed as a combination of each of the three individual scores, such as: E3M2V4 (opens eyes when spoken to, arms stretch in response to pain and patient produces incomprehensible sounds).

If one of the EMV elements cannot be evaluated - such as might be the case if a patient is intubated and incapable of verbally responding, or is paralyzed/weak and incapable of fulfilling the motor request, then the individual score is included (score NT), with an extra comment. Er moet dan GEEN totaalscore worden doorgegeven.

V1T is used for an intubated patient, in which t = 'tube'.

Clinical decisions must be based on each of the specific data of the eyes, motor and verbal responses and, if evaluation is not possible, an explicit explanation.

Standard values for the total score, depending on age:

0-6 months : 9 and up

6 months: 10 and up

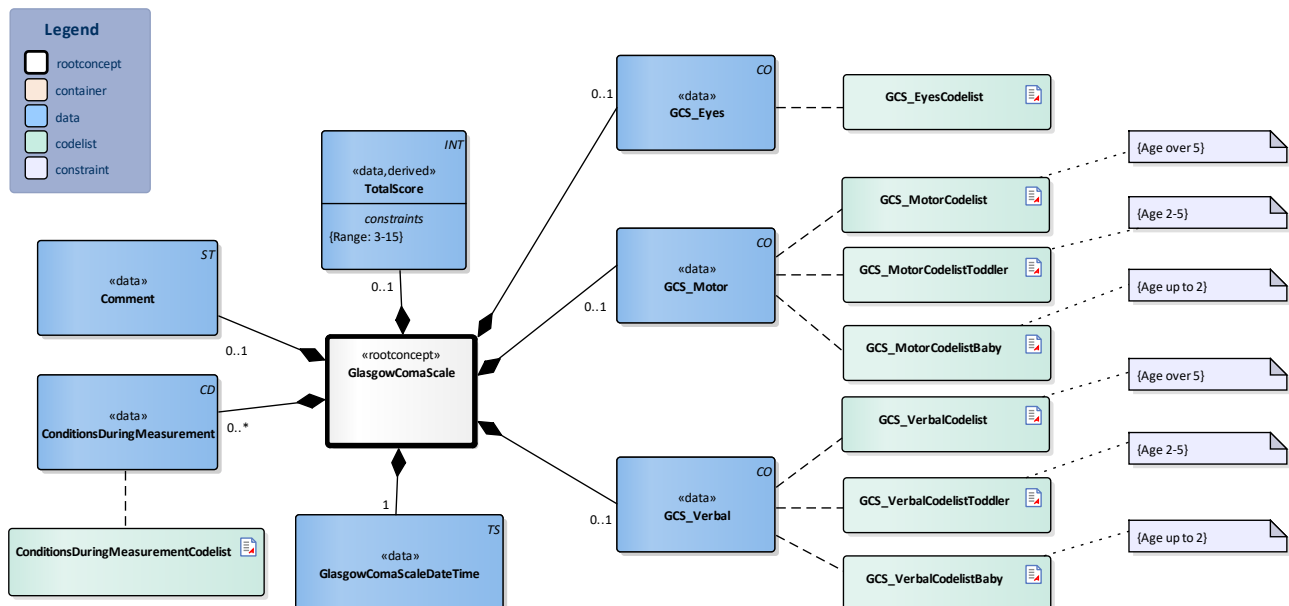
6-12 months : 11 and up

1-2 : 12 and up

2-5 : 13 and up

> 5 : 14 and up

## 1.7 Information Model



«rootconcept»	GlasgowComaScale	
Definitie	Root concept of the GlasgowComaScale information model. This root concept contains all data elements of the GlasgowComaScale information model.	
Datatype		
DCM::ConceptId	NL-CM:12.8.1	
DCM::DefinitionCode	LOINC: 35088-4 Glasgow coma scale	
Opties		

«data»	GlasgowComaScaleDateTime	
Definitie	Time at which the EMV score was determined.	
Datatype	TS	
DCM::ConceptId	NL-CM:12.8.8	
Opties		

«data»	GCS_Eyes	
Definitie	Best eye response to a stimulus. The element is mandatory, but does not require a numerical value. If no value is given, the reason for this is to be provided in the ConditionsDuringMeasurement concept.	
Datatype	CO	
DCM::ConceptId	NL-CM:12.8.2	
DCM::DefinitionCode	SNOMED CT: 281395000 Glasgow coma score eye opening subscore (observable entity)	
DCM::ExampleValue	3	
DCM::ValueSet	GCS_EyesCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.1
Opties		

«data»	GCS_Motor	
Definitie	Best motor response to a stimulus. The element is mandatory, but does not require a numerical value. If no value is given, the reason for this is to be provided in the ConditionsDuringMeasurement concept.	
Datatype	CO	
DCM::ConceptId	NL-CM:12.8.4	

<b>DCM::DefinitionCode</b>	SNOMED CT: 281396004 Glasgow Coma Score motor response subscore	
<b>DCM::ExampleValue</b>	4	
<b>DCM::ValueSet</b>	GCS_MotorCodelistToddler	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.7
<b>DCM::ValueSet</b>	GCS_MotorCodelistBaby	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.8
<b>DCM::ValueSet</b>	GCS_MotorCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.2
<b>Opties</b>		

«data»	GCS_Verbal	
<b>Definitie</b>	Best verbal response to a stimulus. The element is mandatory, but does not require a numerical value. If no value is given, the reason for this is to be provided in the ConditionsDuringMeasurement concept.	
<b>Datatype</b>	CO	
<b>DCM::ConceptId</b>	NL-CM:12.8.6	
<b>DCM::DefinitionCode</b>	SNOMED CT: 281397008 Glasgow coma score verbal response subscore (observable entity)	
<b>DCM::ExampleValue</b>	3	
<b>DCM::ValueSet</b>	GCS_VerbalCodelistBaby	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.5
<b>DCM::ValueSet</b>	GCS_VerbalCodelistKleuter	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.4
<b>DCM::ValueSet</b>	GCS_VerbalCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.3
<b>Opties</b>		

«data»	TotalScore	
<b>Definitie</b>	The sum of the EMV scores, expressed as a number on a scale from 3-15. The value does not have to be recorded, as it can always be calculated based on the individual scores, and as recording the total is not common for a difficult to determine individual score.	
<b>Datatype</b>	INT	
<b>DCM::ConceptId</b>	NL-CM:12.8.10	
<b>DCM::DefinitionCode</b>	SNOMED CT: 444323003 Modified Glasgow coma score	
<b>DCM::ExampleValue</b>	10	
<b>Opties</b>		
<b>Constraint</b>	Range: 3-15	

«data»	ConditionsDuringMeasurement	
<b>Definitie</b>	Conditions during the measurement that prevent one or more of the subscores from being determined (non testable), such as,e.g. intubation during testing of GCS_Verbal.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:12.8.11	
<b>DCM::ValueSet</b>	ConditionsDuringMeasurementCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.6
<b>Opties</b>		

«data»	Comment	
Definitie	Comment on (the context of) the EMV score measurement, such as any problems or factors that may influence interpretation.	
Datatype	ST	
DCM::ConceptId	NL-CM:12.8.9	
DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	
DCM::ExampleValue	Patient was direct voor intubatie volkomen helder; reageert nu minder maar is ook onderkoeld (temperatuur rectaal 35°C).	
Opties		

«document»	ConditionsDuringMeasurementCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.12.8.6	
HCIM::ValueSetLanguage	--	
Opties		

ConditieTijdensMetingCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.6	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
sedated	17971005	SNOMED CT	2.16.840.1.113883.6.96	gesedeerd
Paralysis caused by muscle relaxant	40241000146103	SNOMED CT	2.16.840.1.113883.6.96	spierverslappers
aphasia	87486003	SNOMED CT	2.16.840.1.113883.6.96	afasie
endotracheal tube present	419991009	SNOMED CT	2.16.840.1.113883.6.96	tube aanwezig
tracheostomy present	302108003	SNOMED CT	2.16.840.1.113883.6.96	tracheostoma aanwezig
other	OTH	NullFlavor	2.16.840.1.113883.5.1008	anders

«document»	GCS_EyesCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.12.8.1	
HCIM::ValueSetLanguage	EN	
Opties		

GCS_EyesCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.1		
Concept Name	Value	Concept Code	Coding Syst. Name	Coding System OID	Description

Spontaneous	4	E4	GCS_Eyes	2.16.840.1.113883.2.4.3.11.60.40.4.2.1	Spontaan [De ogen worden geopend zonder aansporing]
To sound	3	E3	GCS_Eyes	2.16.840.1.113883.2.4.3.11.60.40.4.2.1	Bij aanspreken of aanroepen [De ogen worden pas geopend op aanspreken van de patiënt]
To stimuli	2	E2	GCS_Eyes	2.16.840.1.113883.2.4.3.11.60.40.4.2.1	Bij een prikkel [De ogen worden pas geopend na geven van een fysieke prikkel]
No response	1	E1	GCS_Eyes	2.16.840.1.113883.2.4.3.11.60.40.4.2.1	Geen reactie [De ogen blijven gesloten onder elke omstandigheid]
Not applicable	0	NA	NullFlavor	2.16.840.1.113883.5.1008	Niet testbaar door een lokale beperkende factor

«document»		GCS_MotorCodelist			
Definitie					
Datatype					
DCM::ValueSetBinding		Required			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.12.8.2			
HCIM::ValueSetLanguage		EN			
Opties					
GCS_MotorCodelijst				OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.2	
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
Obeys	M6	6	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Voert opdracht uit [Een eenvoudig bevel wordt uitgevoerd]
Localises pain	M5	5	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Lokaliseren [In staat zijn de pijn duidelijk te lokaliseren]
Withdrawal response	M4	4	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Terugtrekken [In staat om een afwerende of wegtrekkende beweging te maken op een pijnprikkel]
Flexor response	M3	3	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Buigreactie [Armen en handen op krampachtige manier geplooid. Meestal benen gestrekt.]
Extensor response	M2	2	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Strekreactie [Armen en handen op krampachtige manier geplooid met naar buiten gedraaide hand. Mogelijk alle spieren van het lichaam gespannen]
No response	M1	1	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Geen reactie op pijnprikkel [Geen enkele lichamelijke reactie beweging op een pijnprikkel]
Not applicable	NA	0	NullFlavor	2.16.840.1.113883.5.1008	Not applicable

«document»		GCS_MotorCodelistBaby			
Definitie					



Datatype					
DCM::ValueSetBinding	Required				
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.12.8.8				
HCIM::ValueSetLanguage	EN				
Opties					
GCS_MotorCodelijstBaby			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.8		
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
Moves spontaneously and purposefully	M6B	6	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Normaal [beweegt zoals verwacht]
Withdraws to touch	M5B	5	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Terugtrekken bij aanraking [Trekt terug bij aanraken]
Withdraws to pain	M4B	4	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Terugtrekken in respons op pijn [Maakt afwerende of wegtrekkende beweging bij een pijnprikkel]
Flexor response	M3	3	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Buigreactie [Langzame, buiging van armen en/of benen]
Extensor response	M2	2	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Decerebrale strekreactie [strekken van armen en/of benen]
No response	M1	1	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Geen beweging op prikkel [Geen enkele beweging op een prikkel]
Not applicable	NA	0	NullFlavor	2.16.840.1.113883.5.1008	Niet van toepassing

«document»		GCS_MotorCodelistToddler			
Definitie					
Datatype					
DCM::ValueSetBinding		Required			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.6 0.40.2.12.8.7			
HCIM::ValueSetLanguage		EN			
Opties					
GCS_MotorCodelijstKleuter				OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.7	
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
Obeys	M6	6	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Voert opdracht tot bewegen uit [Een eenvoudig verzoek tot bewegen wordt uitgevoerd]
Localises pain	M5	5	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Terugtrekken bij aanraking [Trekt terug bij aanraken]
Withdrawal response	M4	4	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Terugtrekken in respons op pijn [Maakt afwerende of wegtrekkende beweging bij een pijnprikkel]
Flexor response	M3	3	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Buigreactie [Langzame, buiging van armen en/of benen]

Extensor response	M2	2	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Decerebrale strekreactie [strekken van armen en/of benen]
No response	M1	1	GCS_Motor	2.16.840.1.113883.2.4.3.11.60.40.4.2.2	Geen beweging op prikkel [Geen enkele beweging op een prikkel]
Not applicable	NA	0	NullFlavor	2.16.840.1.113883.5.1008	Niet van toepassing

«document»		GCS_VerbalCodelist			
Definitie					
Datatype					
DCM::ValueSetBinding		Required			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.12.8.3			
HCIM::ValueSetLanguage		EN			
Opties					
GCS_VerbalCodelijst				OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.3	
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
Oriented	V5	5	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Georiënteerd [Helder en duidelijk bewust van de situatie]
Confused	V4	4	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Verward [Verwarde conversatie maar wel in staat om te antwoorden op de vragen]
Inappropriate speech	V3	3	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Inadequaat [Woorden zijn te verstaan maar vormen geen zinnen]
Incomprehensible sounds	V2	2	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Onverstaanbaar [De spraak is niet te verstaan]
No response	V1	1	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Geen reactie [Geen enkel verbale respons]
Not applicable	NA	0	NullFlavor	2.16.840.1.113883.5.1008	Not applicable

«document»		GCS_VerbalCodelistBaby			
Definitie					
Datatype					
DCM::ValueSetBinding		Required			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.12.8.5			
HCIM::ValueSetLanguage		EN			
Opties					
GCS_VerbalCodelijstBaby				OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.5	
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
Coos/babbles	V5B	5	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Kirt/brabbelt
Irritable cries	V4B	4	GCS_Verbal	2.16.840.1.113883.	Huilt prikkelbaar

				2.4.3.11.60.40.4.2.3	
Cries to pain	V3B	3	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Huilt van de pijn
Moans	V2B	2	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Jammert/kreunt
No response	V1	1	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Geen reactie [Geen enkel verbale response]
Not applicable	NA	0	NullFlavor	2.16.840.1.113883.5.1008	Not applicable

«document»		GCS_VerbalCodelistToddler			
Definitie					
Datatype					
DCM::ValueSetBinding		Required			
DCM::ValueSetId		2.16.840.1.113883.2.4.3.11.60.40.2.12.8.4			
HCIM::ValueSetLanguage		EN			
Opties					
GCS_VerbalCodelijstKleuter				OID: 2.16.840.1.113883.2.4.3.11.60.40.2.12.8.4	
Concept Name	Concept Code	Concept Value	Coding Syst. Name	Coding System OID	Description
Oriented	V5	5	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Adequate woorden en zinnen [Woorden of kleine zinnen in context van de situatie]
Confused	V4	4	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Onjuiste woorden [Verwarde woorden]
Inappropriate speech	V3	3	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Huilen [Aanhoudend huilen of krijsen]
Incomprehensible sounds	V2	2	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Kreunen [Alleen kreunen]
No response	V1	1	GCS_Verbal	2.16.840.1.113883.2.4.3.11.60.40.4.2.3	Geen reactie [Geen enkel verbale response]
Not applicable	NA	0	NullFlavor	2.16.840.1.113883.5.1008	Not applicable

	Legend
Definitie	
Datatype	
Opties	

	Constraint
Definitie	Age 2-5
Datatype	
Opties	

	Constraint
Definitie	Age over 5
Datatype	
Opties	

	Constraint
Definitie	Age up to 2
Datatype	
Opties	

## 1.8 Example Instances

GlasgowComa ScaleDatumTijd	GCS_Eyes	GCS_Motor	GCS_Verbal	TotaalScore	Toelichting
08-02-2013 6:43	2	4	5	11	Beste score voor intubatie, kleding stond in brand

GlasgowComa ScaleDatumTijd	GCS_Eyes	GCS_Motor	GCS_Verbal	TotaalScore	Toelichting
07-02-2013 11:34	4	4	1		Lijkt adequaat

GlasgowComa ScaleDatumTijd	GCS_Eyes	GCS_Motor	GCS_Verbal	TotaalScore	Toelichting
07-02-2013 8:00	1	1	1	3	Zonder spierverslappers na 2 uur reanimatie

## 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. Glasgow Coma Scale (GCS) [Online] op <https://www.openehr.org/ckm/> [Geraadpleegd: 22 mei 2020].
2. Paediatric Glasgow Coma Scale (pGCS) [online] beschikbaar via <https://www.openehr.org/ckm/> [Geraadpleegd: 22 mei 2020].
3. Performance of the Pediatric Glasgow Coma Scale Score in the Evaluation of Children With Blunt Head Trauma, Dominic A. Borgianni, et. all. 2016 by the Society for Academic Emergency Medicine, doi: 10.1111/acem.13014
4. <https://www.glasgowcomascale.org> [geraadpleegd: 22 mei 2020]

## 1.16 Functional Model

## 1.17 Traceability to other Standards

## 1.18 Disclaimer

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