

Appendix

Clinical symptoms	Grade				
	Extreme (10)	Severe (9)	Moderate (8/7)	Mild (5)	Slight (0)
Voluntary movement	1) Absent 2) Acrocontracture 3) Pain reflex but slight trembling and rough breathing	1) Almost absent but parts of the extremities move minutely 2) Part of the extremity flexed and part paralyzed 3) Pain reflex or no pain reflex with clearly frowning face	1) Occasional all/partial extremity movement with no intention 2) Extremity could be paretic 3) Brushing away reaction for pain	1) Occasional movement to meet an object 2) Capable of raising the arms upward, or moving them in the intended direction, i.e., face or head, imitating a posture of the tester	1) Capable of movement with intention 2) Capable of unassisted posture change (partial change inclusive) 3) Moving wheel chair unassisted, even if awkwardly
Voluntary ingestion	Totally incapable of masticating and swallowing. On tube nutrition (gastric/nasal feeding)	1) Almost on tube nutrition 2) Saliva swallowing or mastication is found 3) Capable of attempting slight peroral ingestion, i.e., fruit juice, custard pudding, etc.	1) Capable of masticating. Even if not, almost capable of assisted auroral ingestion by swallowing, though sometimes choking 2) Insufficient peroral ingestion requires tube nutrition	1) Capable of unassisted ingestion be swallowing, mastication could be awkward 2) Capable of ingesting all the rice gruel served or chopped food with assistance 3) Attempting to reach mouse with a passed spoon or put the food into mouth awkwardly	Ingesting on own using spoon awkwardly
Fecal and urinary incontinence	No observed somatic movement when evacuating/Urinating	Slight somatic movement when evacuating/urinating	After incontinence, a displeased look or some signal is observed, i.e., frequent somatic movement	1) Forced regular evacuating and urinating leads to the prevention of fecal and urinary incontinence 2) After incontinence, communicating the fact in a certain way	Except during the night, pre-evacuation and pre-urination communication is possible
Ophthalmography and visual recognition	1) Eyes not open 2) Eyes opened, no blink reflex	1) Eyes opened, blink reflex 2) No following ocular movement and no focusing eyes on an object	1) Looking straight toward the direction of the call 2) Following a moving object or staring at a TV, although understanding is impossible	1) Discriminating close relatives followed by a facial expression 2) Favorite picture, etc, induce a facial expression	1) Capable of reading easy words 2) Capable of understanding simple numbers 3) When watching TV, response and laughter is apparent
Vocalizing and utterances	1) No vocalizing 2) No lip movement under tracheostomy	1) Groaning etc, without meaningful utterances 2) Lip movement observed under tracheostomy	1) A short utterance though not understandable 2) Occasional inarticulate vocal response to calls 3) Under tracheostomy, response to calls is through lip movement	1) Occasional vocalizing of a meaningful word 2) Vocal response to calls 3) Under tracheostomy, imitating talking by the tester	1) Capable of vocalizing a simple word response 2) Lip movement corresponds to what is asked
Change of expression	No response to ambient sound stimulations and TV sounds, etc.	Chnage of expression, such as smiling, crying, and anger, is not due to ambient stimulations	Change of expression is occasionally found in response to ambient stimulations	Change of expression, such as smiling, crying and anger closely matches an expected response to the ambient stimulation	Change of expression, such as crying and smiling, etc., exactly matches an expected response to the ambient stimulation