Coma Recovery Scale

JFK COMA RECOVERY SCALE ©2004

This form should only be used in association with the "CRS-R ADMINISTRATION AND SCORING GUIDELINES" which provide instructions for standardized administration of the scale.

Patient:	Patient:				Date of onset:					
Diagnosis:						Date of as	sessme	ent:		
Date					•					
Assessment		1		2		3		4		5
Auditory function scale	#	тсс	#	тсс	#	тсс	#	тсс	#	тсс
4 – Consistent movement to command ■										
3 – Reproducible movement to command■										
2 – Localization to sound										
1 – Auditory startle										
0 – None										
Visual function scale	#	TCC	#	тсс	#	тсс	#	TCC	#	TCC
5 – Object recognition ■										
4 – Object localization: reaching*										
3 – Visual pursuit*										
2 – Fixation*										
1 – Visual Startle										
0 – None										
Motor function scale	#	TCC	#	TCC	#	TCC	#	TCC	#	TCC
6 - Functional object use†										
5 – Automatic motor response*										
4 – Object manipulation*										
3 – Localisation to noxious stimulation*										
2 – Flexion withdrawal										
1 – Abnormal posturing										
0 – None										
Oromotor/Verbal function scale	#	TCC	#	тсс	#	тсс	#	TCC	#	TCC
3 – Intelligible verbalization■										
2 - Vocalization/Oral movement										
1 – Oral reflexive movement										
0 – None										
Communication scale	#	TCC	#	тсс	#	TCC	#	TCC	#	TCC
2 – Functional: Accurate†										
1 – Non-functional: Intentional ■										
0 – None										
Arousal state	#	TCC	#	TCC	#	TCC	#	TCC	#	TCC
3 – Attention										
2 – Eye opening without stimulation	,						•			
1 – Eye opening with stimulation										
0 – Unarousable										

^{† -} Denotes emergence from Minimally Conscious State (eMCS) TCC - Test Completion Code



^{* -} Denotes Minimally Conscious State Minus (MCS-)

^{■ -} Denotes Minimally Conscious State Plus (MCS+)

BRAIN STEM REFLEX GRID ©2004						
	Administer daily during the a	cute phase,	then weekly			
Mark all that apply:	Date					
iviaik ali tilat apply.	Assessment	1	2	3	4	5
Pupils	Nonreactive: pupils do not constrict in response to light and do not dilate in the dark					
					T	
Corneal reflex	Absent					
	Present in one or both eyes					
				1	T	
	No spontaneous or elicited eye movement					
Eye position and	Skew or conjugate gaze deviation: At rest, one or both eyes are either positioned up or to the left/right, rather than midline					
movement	Dysconjugate gaze: eyes do not move together in the same direction					
	Roving: slow, conjugate, lateral, back and forth eye movements					
	None: eyes move in the same direction as head or stay fixed at midline					
Oculocephalic reflex	Abnormal: response is present but sluggish or unilateral					
	Normal: eyes move in the direction opposite the head					
Postural	Abnormal extension					
responses (indicate limb)	Abnormal flexion					
Notes						

AROUSAL FACILITATION PROTOCOL (AFP) ©2004

Guidelines

- 1. The goal of this intervention is to prolong the length of time the patient maintains arousal (i.e. eye opening)
- 2. The protocol is administered any time the patient is observed to:
 - · Exhibit sustained eyelid closure AND/OR
 - · Stops following commands for a period of at least one minute
- 3. Readminister the arousal facilitation protocol when
 - Sustained eye closure re-occurs OR
 - · Behavioral responsiveness ceases despite sustained eye opening

Interventions

- 1. Present deep pressure stimulation unilaterally to the face, neck, shoulder, and sternocleidomastoid muscles. The muscle should be firmly grasped at its base between the thumb and forefinger. While squeezing the muscle firmly, it should be "rolled" back and forth through the fingertips three to four times. This procedure should be repeated sequentially working from the facial musculature to the sternocleidomastoid. The examiner should assure that there are no intravenous lines, local injuries (e.g. fractures, contusions, decubiti) or systemic complications (e.g. heterotopic ossification) before administering deep pressure.
- 2. Administer same on contralateral side

AUDITORY FUNCTION SCALE ©2004					
Score	Item	Method	Response		
		1.Observe frequency of spontaneous movement for a one minute interval (See Baseline observation and command following protocol on page 4)			
		2. Choose at least 1 object-related and 1 nonobject elated command from the Command following protocol . The type of command chosen (eye, limb, oral) should be based on patient's physical capacity and should be of low spontaneous frequency. If at least 2 out of four commands are passed, and time permits, an additional command may be attempted. The command should be repeated once during the 10 second response interval.			
		a. Object-related eye movement commands: Present 2 common objects simultaneously and approximately 16 inches apart within the patient's field of view. Ask the patient to look at the object named (i.e. Look at the [name object]'). Next, reverse the positions of the 2 objects and ask the patient to look at the same object again (i.e. 'Look at the [name object]').	Clearly discernible and accurate responses occur within 10 seconds on all 4 trials administered. This item is credited only when all 4 trials of 2		
4	Consistent movement to command	Administer two additional trials using the same 2 objects and repeat the above procedure with instruction to look at the other object on both trials. Two trials per object should be administered for a total of 4 trials.	different commands are passed. When more than one type of		
		b. Object-related limb movement command: Present 2 common objects simultaneously and approximately 16 inches apart within the patient's field of view and within arm's (or leg's) length and ask the patient to touch the object named with their hand (or foot). Next, reverse the positions of the 2 objects and ask the patient to touch the same object again. Administer two additional trials using the same two objects and repeat the above procedure with instruction to touch the other object on both trials. Two trials per object should be administered for a total of four trials. This command may also be attempted using head movement.	command from each category is attempted, scoring is based on successfully completing all 4 trials of any two different commands (e.g., 2 object-related, 2 nonobject related or one of each).		
		c. Non-object related commands: Select at least 1 eye movement, limb movement or oral movement/vocalization command and present it over 4 trials at 15 second intervals. The same command should be used for all 4 trials. Movements that occur between commands (i.e. after the response interval has elapsed) should be noted but not scored.			

Same as the Consistent movement to command accurate responses occur over the 4 trials on any one of the object or non-object related commands.	Score	Item	Me	ethod	Re	sponse	
Standing behind the patient and out of view, present an auditory stimulus (e.g. patient's name, voice, noise) from the right side for 5 seconds. Perform a second trial presenting the auditory stimulus from the left side. Repeat above Procedure for a total of 4 trials, 2 on each side. If needed, reonent the head to midline between trials. Present a loud noise (eg., whistle, clap) directly above the patient's head and out of view. Administer 4 trials. Present a loud noise (eg., whistle, clap) directly above the patient's head and out of view. Administer 4 trials. Present a loud noise (eg., whistle, clap) directly above the patient's head and out of view. Administer 4 trials. Present a loud noise (eg., whistle, clap) directly above the patient's head and out of view. Administer 4 trials. Present a loud noise (eg., whistle, clap) directly allowed the trials above the patient's head and out of view. Administer 4 trials. Present a loud noise (eg., whistle, clap) directly allowed the trials are vidence of head and/or eye movement. It is not dependent on the degree of duration of inovement. Baseline observations of spontaneous behaviours and restling posture Eye-opening Present a loud noise (eg., whistle, clap) directly allowed the trials. Baseline observations of spontaneous behaviours and restling posture Eye-opening Visual tracking Present a loud noise (eg., whistle, clap) directly allowed the trials. Baseline observations of spontaneous behaviours and restling posture Eye-opening Visual tracking Present a loud noise (eg., whistle, clap) directly and a loud of view. Administer 4 trials. Research trials trials in trials 2 trials in the degree of duration of novement 4 trials. Research trials trials in trials 2 trials in trials 3 trial 4 trials. Present a loud noise (eg., whistle, clap) directly and a loud of view. Administer of trials 2 trials in trials 2 trials in trials 3 trials 1 trials 3 trials 4 trials. Present a loud noise (eg., whistle, clap) directly and a loud of view. Administer of tria	3	I -		it movement to command	d accurate respon trials on any one	ses occur over the 4 of the object or non-	
Present a loud noise (eg, whistle, clap) directly above the patient's head and out of view. Administer 4 trials. None See above Nor response to any of the above.	2	Localisation to sound	present an auditory stin name, voice, noise) from seconds. Perform a sec auditory stimulus from t above Procedure for a side. If needed, reorien	nulus (e.g. patient's m the right side for 5 cond trial presenting the the left side. Repeat total of 4 trials, 2 on eacl	location of the sti in at least one dii the right or twice seconds of stimu presentation. Thi scored when the evidence of head movement. It is n	mulus on both trials rection (ie, twice to to the left) within 10 lus sitem is re is clear land/or eye ot dependent on the	
BASELINE OBSERVATION AND COMMAND FOLLOWING PROTOCOL ©2004 Baseline observations of spontaneous behaviours and resting posture Eye-opening Visual tracking Sticking out tongue Opening mouth Closing mouth Vocalizations (eg. 'ah') Resting posture RUE: RLE: LLE: Commands Trial 1 Trial 2 Trial 3 Trial 4 Object related commands: Eye movement Look at the (object #1, object #2) Non-object related commands: Eye movement Look away from me Look away from me Look ow (at ceiling) Look down (at floor) Non-object related commands: Oral movement/Vocalization Other commands: Oral movement/Vocalization Other commands: Oral movement/Vocalization Other commands: Oral movement/Vocalization Other commands: Oral movement/Vocalization	1	Auditory startle	above the patient's hea		immediately follo at least 2 trials. If a shoulder shrug	wing the stimulus on the eyes are closed, or other body startle	
Baseline observations of spontaneous behaviours and resting posture Eye-opening Visual tracking Sticking out tongue Opening mouth Closing mouth Vocalizations (eg. 'ah') Resting posture RUE: LUE: RLE: LLE: Commands Trial 1 Trial 2 Trial 3 Trial 4 Object related commands: Eye movement Look at the (object #1, object #2) Object related commands: Limb movement Take the (object #1, object #2) Kick the (object #1, object #2) Non-object related commands: Eye movement Look away from me Look away from me Look own (at reiting) Non-object related commands: Oral movement/Vocalization Stick out your tongue Open your mouth Close your mouth Say 'ah' Related commands: Oral movement/Vocalization Other command 1:	0	None	See above		No response to a	ny of the above.	
Eye-opening		BASELINE OBSERVATION AND COMMAND FOLLOWING PROTOCOL ©2004					
Visual tracking	Baseline	observations of spontaneous	behaviours and resting	posture			
Sticking out tongue	Eye-oper	ning					
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Say 'ah' Related commands: Oral movement/Vocalization Other command 1:							
Related commands: Oral movement/Vocalization Other command 1:		ui iiiOutii					
		commands: Oral movement	Vocalization		l		
Other command 2:	Other cor	mmand 1:					
	Other cor	mmand 2:					

	VISUAL FUNCTION SCALE ©2004						
Score	Item	Method	Response				
5	Object recognition	Same as Consistent movement to command on Auditory function scale, Section 2a and b (see page 3)	If the Auditory function score was >2 AND the command used was object-related, score 5 for the Visual Function Scale. If an object-related command was not administered, administer the Object Recognition item. If the Auditory Function score was < 2 AND the command used was object-related, continue with the Object Localization item below.				
		I. Identify the arm or leg with the greatest range of movement. Por upper extremity reaching, select common objects (e.g. comb, toothbrush, etc.) For lower extremity assessment, select a ball suitable for kicking.	Score the direction in which the limb first moves within a				
4	Object localization: Reaching	3. Present the object approximately 8 inches to the left or right of the limb's resting position. The object should be placed in a position that is not obstructed from view. The patient should be instructed to 'Touch the [name object]' with the appropriate arm or leg.	10 second observation period, or score as no movement. The limb does not need to make contact with the object, only to move toward it;				
		The command may be repeated once within the assessment interval. Do not provide any tactile cues, as these may stimulate random limb movement.	Movement must occur in the correct direction in 3 of the 4 trials administered.				
		5. Present an object twice to the left of the limb and twice to the right of the limb in random order for a total of 4 trials.					
		Hold a mirror 4-6 inches directly in front of the patient's face and verbally encourage the patient to fixate on the mirror.	Eyes must follow the mirror for 45 degrees without loss of fixation on 2 occasions in				
3	Visual pursuit	Tilt the mirror slowly 45 degrees to the right and left of the vertical midline and 45 degrees above and below the horizontal midline.	any direction. If visual pursuit is not scored, the procedure may be				
		Repeat the above procedure so that a total of 2 trials are administered in each hemispace (ie twice up, twice down, twice left and twice right).	repeated assessing one eye at a time (using an eye patch).				
2	Fixation	Present a brightly colored or illuminated object 6 to 8 inches in front of the patient's face and then rapidly move to upper, lower, right and left visual fields, respectively for a total of 4 trials.	Eyes change from initial fixation point and refixate on the new target location for more than 2 seconds. At least 2 episodes of fixation are required.				
1	Visual startle	Present visual threat by passing finger 1 inch in front of patient's eye. Be careful not to touch eyelashes or create a breeze (manually open eyes if necessary). Conduct 4 trials per eye.	Eyelid flutter or blink following presentation of visual threat on at least 2 trials with either eye.				
0	None	See above.	No response to any of the above				

	MOTOR FUNCTION SCALE ©2004					
Score	Item	Method	Response			
6	Functional object use	Select 2 common objects (e.g. comb, cup). Place one of the objects in the patient's hand and instruct the patient to 'Show me how to use a [name object]'. Next, place the second object in the patient's hand and restate the same instruction. Repeat the above procedure using the same objects so that a total of 2 trials are administered with each object.	Movements executed are generally compatible with both objects' specific function (e.g. comb is placed on or near the head) on all 4 trials administered. If the patient is unable to hold the object because of neuromuscular involvement, this should be noted on the record form and the item should not be scored.			
5	Automatic motor response	Observe for automatic motor behaviors patterns such as nose scratching, grasping bedrail, crossing legs, grabbing tubes, that occur spontaneously during the examination. If spontaneous automatic motor behaviors are not observed, present a familiar gesture (e.g. wave) in association with the following series of alternating commands: 1) 'Show me how to wave' (demonstrate gesture) 2) 'I'm going to wave again. Do not move at all. Just hold still' (demonstrate gesture) 3) 'Show me how to wave' (demonstrate gesture) 4) 'I'm going to wave again. Do not move at all. Just hold still' (demonstrate gesture) For patients with limited ability to move their limbs, objects associated with oromotor activity may be used (e.g. spoon). Place the object in front of the patient's mouth without making contact. Administer the following series of commands: 1) 'Show me how to use [name object]' 2) 'I am going to show you [name object] again. Do not move at all. Just hold still'. 3) 'Show me how to use [name object] again. Do not move at all. Just hold still'.	At least 2 episodes of automatic motor behavior are observed within the session and each episode can be clearly differentiated from a reflexive response. Patient performs the gesture (e.g. waves) or oromotor pattern on <i>Trials 2 and 4</i> (regardless of performance on trials 1 and 3).			
4	Object manipulation	Place a baseball size ball on the dorsal surface of one of the patient's hands. Roll the ball across the index finger and thumb without touching the undersurface of the hand or fingers. While moving the ball, instruct the patient to "Take the ball". Repeat the above for a total of 4 trials.	The following criteria must be met on 3 of the 4 trials administered: 1. The wrist must rotate and the fingers should extend as the object is moved along the dorsal surface of the hand; and 2. The object must be grasped and held for a minimum of 5 seconds. The object cannot be held by means of a grasp reflex or increased finger flexor tone.			

	MOTOR FUNCTION SCALE ©2004						
Score	Item	Method	Response				
3	Localization to noxious stimulation	Extend all four extremities. Apply pressure to the finger or toe of an extremity (use best extremity on each side of the body) for a minimum of 5 seconds (i.e. squeeze the finger or toe between your thumb and index finger). Administer 2 trials on each side for a total of 4 trials.	The non-stimulated limb must locate and make contact with the stimulated body part at the point of stimulation or with the examiner's hand on at least 2 of the 4 trials.				
2	Flexion withdrawal	Extend all 4 extremities. Apply deep pressure to nailbeds of each extremity (i.e. press the ridge of a pencil into the cuticle). Administer 1 trial per extremity.	There is isolated flexion withdrawal of at least one limb. The limb must move away from the point of stimulation. If quality of response is uncertain, the trial may be repeated.				
1	Abnormal posturing	Observe response to above method	Slow, stereotyped flexion or extension of the upper and/or lower extremities occurs immediately after the stimulus is applied.				
0	None	Observe response to method above	There is no discernible movement following application of noxious stimulation, secondary to hypertonic or flaccid muscle tone.				
		OROMOTOR/VERBAL FUNCTION SCALE ©2004					
Score	Item	Method	Response				
		Tell patient: 'I would like to hear your voice'. This should be followed by an attempt to directly elicit speech using the verbal prompts shown below. At least one prompt should be selected from the Aural Set and at least one from the Visual Set. A maximum of 4 prompts can be administered.	Each of the following criteria must be met: 1. Each verbalization must consist of at least one consonant-vowel-consonant (CV-C) triad. For example, 'ma' would not be acceptable, but 'mom' would. Make sure objects chosen have a C-V-C				
3	Intelligible verbalization	A maximum of 3 trials should be administered for each prompt chosen from the Aural and Visual Sets. Prompts should be administered at 10 second intervals.	sequence; and 2.Two different words must be documented by the examiner to ensure that a repetitive word-like sound is not				
	intelligible verbalization	Aural Set: a) 'Your name is' b) 'You live in' c) 'One, two, three,'	mistaken for a word. Words need not be appropriate or accurate for the context, but must be fully intelligible; and 3. Words produced by writing or alphabet board are acceptable.				
		Visual Set: a) 'This is a' (Hold up a common object in front of the patient's right and then left visual field for 10 seconds). b) 'I holding fingers' (Hold up 4 or 5 fingers in front of the right and then left visual field for 10 seconds). c) 'This is a' (Point to your nose while positioned at the patient's visual midline).	Verbalisations that occur spontaneously or at other times during the assessment and meet the above criteria should also receive a score of 3.				

Score	Item	Method	Response
2	Vocalization/ Oral movement	Observe for non-reflexive oral movements, spontaneous vocalizations or vocalizations that occur during administration of vocalization commands (see page 3)	At least 1 episode of nonreflexive oral movement (i.e., suggesting an attempt to speak, mouth opening other than yawning, lip licking, or any other oral movement that cannot be accounted for by reflexes) and/or vocalization occurs spontaneously or in response to application of sensory stimulation Yawning is scored as reflexive oral movement.
1	Oral reflexive movement	Present tongue blade between patient's lips and/or teeth	There is clamping of jaws, tongue pumping or chewing movement spontaneously or following introduction of tongue blade into mouth.
0	None	See above	No response to any of the above.

Administer only if a score of 3 or 4 is achieved on the auditory subscale, a score of 3 is achieved on the Verbal/Oromotor Scale, or there is evidence of spontaneous communication (e.g., gestural or verbal yes/no responses during the exam).

Score	Item	Method	Response
2	Functional: Accurate	Administer the 6 Situational Orientation questions from the Communication Assessment Protocol (page 12). The examiner may use the Visual Set, Auditory set or both sets, if appropriate. Repeat the question once within 10 seconds.	Clearly discernible and accurate responses (e.g head nods/shakes, thumbs up) occur within 10 seconds on all 6 of the Visual or Auditory situational orientation questions from the Communication assessment protocol (see page 9)
1	Non-functional: Intentional	Same as above.	A clearly discernible communicative response* (e.g head nods/shakes, thumbs up) must occur within 10 seconds on at least 2 of the 6 Situational Orientation questions of either set (irrespective of accuracy).
0	None	See above.	No discernible verbal or non- verbal communication responses occur at any time.

	00		CMENT PROTOCOL @0004	
	CC		SMENT PROTOCOL ©2004 orientation	
	Visually base			v based
Am I touc	hing my ear right now? (touch r	nose)	Am I clapping my hands right now	? (do not clap)
Am I touc	hing my nose right now? (touch	nose)	Am I clapping my hands right now	? (clap)
Am I touc	hing my ear right now? (touch e	ear)	Am I clapping my hands right now	? (clap)
Am I touc	hing my ear right now? (touch r	nose)	Am I clapping my hands right now	? (do not clap)
Am I touc	hing my nose right now? (touch	ear)	Am I clapping my hands right now	? (clap)
Am I touc	hing my ear right now? (touch e	ear)	Am I clapping my hands right now	? (do not clap)
		AROUSAL S	SCALE ©2004	
Score	Item	Method		Response
3	Attention	_	Observe consistency of behavioral responses following verbal or gestural prompts	
2	Eye opening without stimulation	Observe status of the eyelids across length of assessment		Eyes remain open across the length of the examination without the need for tactile, pressure or noxious stimulation.
1	Eye opening with stimulation	Same as above		Tactile, pressure or noxious stimulation must be applied at least once during the examination in order for the patient to sustain eye opening (the length of time the eyes remain open may vary and is not considered in the scoring).
0	Unarousable	Same above		No eye opening noted. Note, if the eyes do not open but MCS behaviors are scored, the Arousal subscale is scored as "not testable".
Caara			HAVIOR ©2004 (supplementa	
Score	Item		Method	Response
Not scored	Contingent vocalization/ Gesture/ Affective response	1. Vocalizations, gestures and affective responses are assessed through a combination of reports from family and clinicians, and direct observations from treating staff. Family and clinical staff should be questioned about any vocalizations, gestures or affective responses (i.e., (smiling, laughing, frowning, crying) that are observed to occur spontaneously or in response to a specific stimulus. 2. If above response is based on report, staff should attempt to directly elicit the behavior again with the assistance of the individual who reported it.		A vocalization, gesture or affective response occurs significantly more often in response to a specific eliciting stimulus, than when the stimulus is absent.
				Contingent responses do not include those that occur following administration of noxious stimuli.

_			_			
Score	Item	Method	Response			
Not scored Contingent vocalization/ Gesture/ Affective response		3. If affective responses are observed during direct examination, the examiner should attempt to re-elicit the behavior using the same eliciting stimulus previously noted to produce the behavior. Examples of appropriate eliciting stimuli include verbal requests ('What's your name?'), limb gestures (waves), facial gestures (sticking out tongue) and pictures (family photos).	A vocalization, gesture or affective response occurs significantly more often in response to a specific eliciting			
		4. The examiner should document: a. The nature of the eliciting stimulus (e.g. Verbal: 'Are you feeling sad?', Limb gesture: handshake); b. Specific characteristics of the behavioral response (e.g. facial grimace with tearing of the eyes, smiling, moaning); c. Number of times the behavior has been observed to occur within 10 seconds of the eliciting stimulus; d. Number of times the behavior has been observed to occur spontaneously; e. The time frame allowed for 'c' and 'd' should be specified and approximately the same.	response to a specific eliciting stimulus, than when the stimulus is absent. Contingent responses do not include those that occur following administration of noxious stimuli.			
		TEST COMPLETION CODES (TCC)				
	A TCC should be as:	signed to each CSR-R subscale to indicate the validity of the s	ubscale score.			
Test com	pletion codes					
	1	test completed in full - results valid				
Test atten	npted, not completed due to:					
	2.1	impaired sensory function (cortical or peripheral)				
	2.2	aphasia				
	2.3	physical injury (e.g., fracture, brachial plexus, hemiparesis)				
	2.4	primary language barrier				
	2.5	illness/medical instability				
	2.6	examiner error				
	2.7	logistical reasons				
	2.8 other (specify):					
Test not a	Test not attempted due to:					
	3.1 impaired sensory function (cortical or peripheral)					
	3.2 aphasia					
3.3		physical injury (e.g., fracture, brachial plexus, hemiparesis)				
3.4		primary language barrier				
	3.5	illness/medical instability				
	3.6	examiner error				
	3.7	logistical reasons				

Reference

Giacino, J., Bodien, C., & Chatelle, J. (2020). *CRS-R coma recovery scale-revised ©2004 administration and scoring guidelines*. https://www.tbims.org/combi/crs/CRS%20Syllabus.pdf

other (specify):

3.8