

MASS CASUALTIES

Glasgow Coma Scale

Eye Opening Response

- Spontaneous--open with blinking at baseline 4 points
- To verbal stimuli, command, speech 3 points
- To pain only (not applied to face) 2 points
- No response 1 point

Verbal Response

- Oriented 5 points
- Confused conversation, but able to answer questions 4 points
- Inappropriate words 3 points
- Incomprehensible speech 2 points
- No response 1 point

Motor Response

- Obeys commands for movement 6 points
- Purposeful movement to painful stimulus 5 points
- Withdraws in response to pain 4 points
- Flexion in response to pain (decorticate posturing) 3 points
- Extension response in response to pain (decerebrate posturing) 2 points
- No response 1 point

References

Teasdale G, Jennett B. Assessment of coma and impaired consciousness. Lancet 1974; 81-84. Teasdale G, Jennett B. Assessment and prognosis of coma after head injury. Acta Neurochir 1976; 34:45-55.

Categorization:

Coma: No eye opening, no ability to follow commands, no word verbalizations (3-8)

Head Injury Classification:

Severe Head Injury----GCS score of 8 or less
Moderate Head Injury----GCS score of 9 to 12
Mild Head Injury----GCS score of 13 to 15
(Adapted from: Advanced Trauma Life Support: Course for Physicians, American College of Surgeons, 1993).

Disclaimer:

Based on motor responsiveness, verbal performance, and eye opening to appropriate stimuli, the Glascow Coma Scale was designed and should be used to assess the depth and duration coma and impaired consciousness. This scale helps to gauge the impact of a wide variety of conditions such as acute brain damage due to traumatic and/or vascular injuries or infections, metabolic disorders (e.g., hepatic or renal failure, hypoglycemia, diabetic ketosis), etc.

May 9, 2003

Glasgow Coma Scale

(continued from previous page)

Education is necessary to the proper application of this scale.

Teasdale G, Kril-Jones R, van der Sande J. Observer variability in assessing impaired consciousness and coma. J Neurol Neurosurg Psychiatry 1978; 41:603-610; Rowley G, Fielding K. Reliability and accuracy of the Glasgow Coma Scale with experienced and inexperienced users. Lancet 1991; 337:535-538). The predictive value of the GCS, even when applied early, is limited (Waxman K, Sundine MJ, Young RF. Is early prediction of outcome in severe head injury possible? Arch Surg 1991; 126:1237-1242). Despite these and other limitations (Eisenberg HM. Outcome after head injury: Part I: general Considerations, in Becker DP, Povlishock JR (eds): Central Nervous System Trauma Status Report, 1985. Washington, DC: U.S. Government Printing Office, 1988:271-280), health care practitioners continue to use this practical scale widely.

Source: Adapted from Glascow Coma Scale, Womack Army Medical Center, Fort Bragg, NC.

For more information, visit www.bt.cdc.gov/masscasualties, or call CDC at 800-CDC-INFO (English and Spanish) or 888-232-6348 (TTY).

May 9, 2003

Page 2 of 2