

FOUR Score

Considering that FOUR score allows a more detailed neurological evaluation than [GCS](#). Findings suggest that FOUR score is more useful for patients who are unconscious or dependent on mechanical ventilation ¹⁾.

The predictive value of the [FOUR score](#) on admission of patients with TBI is no better than the [GCS](#) score ²⁾.

Eye Response Findings Score

eyelids open and tracking, or blinking on command 4

eyelids open but not tracking 3

eyelids closed but open to loud voice 2

eyelids closed but open to pain 1

eyelids closed with pain 0

Motor Response Findings Score

makes sign (thumbs-up, fist, other) 4

localizing to pain 3

flexion response to pain 2

extension response to pain 1

no response to pain 0

generalized myoclonus status 0

Pupil Reflexes Corneal Reflexes Cough Brainstem Score

present present present 4

one pupil wide and fixed present present 3

absent present NA 2

present absent NA 2

absent absent present 1

absent absent absent 0

Intubation Breathing Respiratory Score

not intubated regular 4

not intubated Cheyne-Stokes 3

not intubated irregular 2

not intubated apnea 0

intubated above ventilator rate 1

intubated breathes at ventilator rate 0

total score =

= SUM (points for all 4 parameters)

Interpretation:

minimum score: 0

maximum score: 16

The lower the score the greater the coma

Source:

Wijdicks EFM, Bamler WR, et al. Validation of a new coma scale: The FOUR score. *Ann Neurol*. 2005; 58: 585-593

¹⁾

Bayraktar YŞ, Sahinoglu M, Cicekci F, Kara İ, Karabagli H, Duman A, Celik JB. COMPARISON OF GLASGOW COMA SCALE AND FULL OUTLINE OF UNRESPONSIVENESS (FOUR) SCORE: A PROSPECTIVE STUDY. *Turk Neurosurg*. 2018 Oct 12. doi: 10.5137/1019-5149.JTN.24175-18.2. [Epub ahead of print] PubMed PMID: 30649827.

²⁾

Saika A, Bansal S, Philip M, Devi BI, Shukla DP. Prognostic value of FOUR and GCS scores in determining mortality in patients with traumatic brain injury. *Acta Neurochir (Wien)*. 2015 Sep;157(8):1323-8. doi: 10.1007/s00701-015-2469-6. Epub 2015 Jun 16. PubMed PMID: 26077394.

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