

Evidence-Based Clinical Pathway: Pediatric Traumatic Brain Injury: CT Decision Tool

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Primary Sources: 1. Kuppermann N, Holmes JF, Dayan PS, et al. Identification of children at very low risk of clinically-important brain injuries after head trauma: a prospective cohort study. Lancet. 2009;374(9696):1160-1170.

*GCS Scoring:

Eyes:

- 4. Eyes opening spontaneously
- 3. Eyes opening to speech
- 2. Eyes opening to pain
- 1. No eye opening

Verbal:

- 5. Oriented and conversational
- Articulate, conversational, but confused
- 3. Articulate but not conversational
- 2. Incomprehensible speech
- No verbal response

No verbal respons Motor:

- 6. Obeys commands
- 5. Localizes pain
- 4. Withdraws from pain
- 3. Decorticate (flexion) to pain
- 2. Decerebrate (extension) to pain
- 1. No motor response

*Pediatric GCS Scoring (age less than two):

Eyes:

- 4. Eyes opening spontaneously
- 3. Eyes opening to speech
- 2. Eyes opening to pain
- 1. No eye opening

Verbal:

- 5. Smiles, oriented to sounds, interactive
- 4. Cries but consolable, inappropriate interactions
- 3. Inconsistently inconsolable, moaning
- 2. Inconsolable, agitated
- 1. No verbal response

Motor:

- 6. Moves spontaneously or purposefully
- 5. Withdraws from touch
- 4. Withdraws from pain
- 3. Decorticate (flexion) to pain
- 2. Decerebrate (extension) to pain
- 1. No motor response

‡Other signs of altered mental status:

- Agitation
- Somnolence
- Repetitive questioning
- Slowed response to verbal communication

¥ Severe mechanism:

- MVC with ejection, death of other passenger, rollover
- MVP/MVB (pedestrian or bicyclist) without a helmet
- Fall > 3 feet (younger than 2) or > 5 feet (older than 2)
- Head struck with high impact object

