Pediatric Patient with Traumatic Brain Injury (TBI)



Patients with >1 intracranial injury should be automatically classified as kBIG3

Are ANY of the following present? kBIG 3 Radiographic Findings Clinical Findings • GCS ≤12 **High Risk** IVH YES Anticoagulation or • EDH ≥8mm antiplatelet • SDH ≥8mm Transfer / Admit to pediatric trauma center Non-accidental • IPH ≥ 8mm or multiple with neurosurgery consultation available trauma (NAT) SAH >3 sulci AND mechanism bi-hemispheric Displaced skull fracture > 1 cranium width Are ANY of the following present? kBIG 2 **Medium Risk** Radiographic Findings **Clinical Findings** If worsening: • EDH <8mm • GCS 13-14 YES neuro exam Transfer / Admit to pediatric trauma center · Persistent nausea, • SDH 4.1 - 7.9mm with neurosurgery consultation available vomiting • IPH 4.1 – 7.9mm NO neurosurgical consultation Intoxication SAH>3 sulci, single hemisphere NO repeat head CT Non-displaced skull fracture or mildly GCS 15 at discharge displaced < 1 cranium width **Confirm Intracranial Hemorrhage Size** kBIG 1 Low Risk If worsening: Radiographic Findings Clinical Findings YES neuro exam GCS 15 • SDH ≤4mm Discharge from Emergency Department • IPH ≤4mm NO repeat head CT SAH ≤3 sulci (total) NO neurosurgical consultation · Non-displaced skull fracture or mildly displaced < 1 cranium width kBIG 0 **Isolated Skull Fracture** If worsening: Low risk isolated skull fracture neuro exam YES Radiographic Findings **Clinical Findings** Discharge from Emergency Department No ICH GCS 15 · NO repeat head CT

Low risk isolated skull fracture and concern for child physical abuse: please call safe and healthy families. Otherwise treat as kBIG 0.

NO neurosurgical consultation

Abbreviations

IVH: Intraventricular Hemorrhage
EDH: Epidural Hematoma
SDH: Subdural Hematoma
ICH: Intraparenchymal Hemorrhage
ICH: Intracranial Hemorrhage

UTAH
PEDIATRIC

Non-displaced skull fracture or

mildly displaced < 1 cranium width