Patient with History of Acute Mild Traumatic Head Injury (GCS 13, 14, or 15) → GCS 13 → GCS 14 or 15 → Increased risk for ciTBI → YES → Recommend Head CT → NO → Significant Clinical Findings → YES → Additional Risk Factors → YES → Ed Observation (CT) → NO → Radiographic (CT) evidence of ciTBI? → YES → Neurosurgery consult and admit to Neurosurgery → NO → Reassess → Discharge Criteria Met → YES → Discharge Home → NO → Admit for Supportive Care → Consider CT if clinically indicated → YES → Discharge Home

ciTBI: clinically important Traumatic Brain Injury  
GCS: Glasgow Coma Scale  
LOC: Loss of Consciousness  
PCP: Primary Care Physician

1. Increased risk for ciTBI:  
   - Evidence of Skull Fracture  
   - Abnormal Neurological Exam

2. Significant Clinical Findings:  
   - Altered Mental Status such as Agitation, Persistent/Deep Somnolence or Repetitive Questioning  
   - Persistent Slow Response to Verbal Communication  
   - Occipital, Parietal or Temporal hematoma  
   - Severe Headache  
   - Multiple Emesis  
   - Severe mechanism of injury:  
     - Motor Vehicle Crash with Ejection  
     - Death of another passenger  
     - Rollover  
     - Pedestrian or bicyclist w/o helmet struck by motor vehicle  
     - Fall > 5 feet if > 2 years; > 3 feet if < 2 years.  
     - Head struck by high-impact object

3. Additional Risk Factors:  
   - Multiple symptoms  
   - Loss of consciousness  
   - Worsening signs or symptoms  
   - Younger infant  
   - Delayed onset seizure  
   - Persistent GCS of 13 or 14  

4. ED Observation:  
   - Close observation and frequent reassessment are recommended up to 4 hrs.  
   - If worsening obtain CT  
   - If there is a high speed mechanism with the isolated head injury; admit to Neurosurgery*

5. Discharge Criteria:  
   - Pain & Emesis controlled  
   - Caretakers understand Discharge Care Instructions  
   - Caretakers able to return to ED if symptoms worsen

6. Discharge Home:  
   - Discharge using current Concussion teaching sheet which includes:  
     - PCP follow-up information  
     - Detailed Activity Restrictions  
     - Return to School  
     - Return to Play  
   - Provide Contact # for Concussion Program Nurse 404-785-KIDS (5437), select option 3, and ask for concussion nurse.

*Several mechanisms of head injury are associated with an increased risk for ciTBI requiring admission:  
- Motor Vehicle Crash with Ejection  
- Death of another passenger  
- Rollover  
- Pedestrian or bicyclist w/o helmet struck by motor vehicle  
- Fall > 5 feet if > 2 years; > 3 feet if < 2 years.  
- Head struck by high-impact object