* GCS <= 14
* Signs of Basilar skull fracture
* Other signs of altered mental status
  + agitation
  + somnolence
  + slow response to verbal communication
  + repetitive questioning

CT recommended

Observation vs. CT on basis of other clinical factors:

* Physician experience
* Worsening signs/symptoms after ED observation
* Multiple vs isolated findings
* *Isolated* LOC ***or*** *Isolated* Headache ***or*** *Isolated* Vomiting has risk of CiTBI substantially < 1%
* Parental preference

<0.05% Risk of CiTBI

CT Not Recommended

NO

YES

0.9% Risk of CiTBI

* History of LOC
* History of vomiting
* Severe headache
* Severe mechanism of injury:
* MVA with: pt ejection ***or*** death of another passenger ***or*** rollover
* Pedestrian or unhelmeted cyclist struck by motorized vehicle
* Fall > 5 ft.
* Head struck by high impact object

NO

YES

4.3% Risk of CiTBI