


Isolated head injury

(16yr+) Imaging

Name	Addressograph, or	
DOB.		
Unit No./CHI		

- Do not use for Injuries >24 hours old or superficial injuries to face.
- Do not attribute reduced GCS to intoxication with alcohol or substances until significant brain injury is excluded

GCS Eye: Verbal: Motor: Time of injury:

Patients with the following features should have CT **within one hour of arrival** to ED:

- GCS < 13 at triage ☐
- GCS < 15 two hours after the injury ☐
- Open or depressed skull fracture ☐
- Signs of skull base fracture* ☐
- Post-traumatic seizure ☐
- >1 discrete episode of vomiting ☐
- Focal neurological deficit** ☐

Patients with the following features should receive scan within eight hours **of injury**:

LOC and/or amnesia WITH any of:

- Retrograde amnesia >30 minutes ☐
- Coagulopathy*** ☐
- Anticoagulated/clopidogrel ☐
- Dangerous mechanism**** ☐
- Age ≥65 ☐

*Clear fluid from ears/nose, bleeding from ears, black eye(s) without local trauma, Battle's sign

**Difficulties Speaking/reading/writing/walking, abnormal reflexes/sensation/balance, weakness, visual loss,

***Includes platelets below 100, haemophilia, Cirrhosis, or other bleeding disorders,

****Pedestrian vs. cyclist or motor vehicle, ejection from motor vehicle, fall >1m or >5 stairs

UPDATE 2023: Do not scan patients from triage solely because of anticoagulation/clopidogrel (Consider scanning and/or admission in patients with risk factors (pre-existing cognitive impairment, other injuries, No supervision, cause of incident, risk of further falls). For other patients use shared decision making if discharging without a scan (d/w ST4+).


ACTION AT TRIAGE:

1. If any clinical features above present at triage then speak to Dr to order CT head
2. The Dr can phone 23797 immediately after requesting to see if slot available.

Refer to head injury pathway on EMIBANK for ongoing management

Patients in ED:

Observation and Discharge

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- Use this for patients who have been identified by the Head Injury Pathway as requiring ongoing observation **within the ED/ED Observation Unit**
- Refer concerning signs or observations to ED senior
- Patients who require >12 hours in ED Observation Unit should be admitted to Neurosurgery (only if abnormal CT **and** ongoing neuro-obs required) or Medicine where there are no further head injury concerns

Observation

- In admitted patients the minimum acceptable neurological observations are: GCS, pupil size and reactivity, limb movements, respiratory rate, heart rate, blood pressure, temperature and blood oxygen saturation. This should be recorded on the ED SHOCK chart.
- Perform and record observations **every 30 minutes** for patients with GCS less than 15. For patients with a GCS score of 15 the minimum observation frequency should be as follows:
 - Half-hourly for 2 hours.
 - Then 1-hourly for 4 hours.
 - Then 2-hourly thereafter.
- Should the patient with GCS of 15 deteriorate at any time after the initial 2-hour period, observations should revert to half-hourly and follow the original frequency schedule
- Refer to NICE CG176 (Head Injury: assessment and early management) for full guideline on observations

Admission

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Discharge

- | | |
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| <ul style="list-style-type: none">• Abnormal CT not requiring DCN admission• GCS<15 (altered baseline in dementia)• Severe headache• Persistent vomiting• Significant drug or alcohol intoxication• Ongoing post traumatic amnesia• Meningism, CSF leak• Unsafe home circumstances | <ul style="list-style-type: none">• GCS 15• Normal scan or CT not indicated• Not significantly intoxicated• Not meeting admission criteria• Appropriate supervision in place for next 24 hours or risk of late complication deemed negligible by ED senior (ST4+) |
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If patients are appropriate for Nurse-Led Discharge

using the above criteria then this should be clearly stated in the patient's EPR and communicated to the ED Observation Unit nurse