

Minor Head Injury in Children - Clinical Assessment Tool

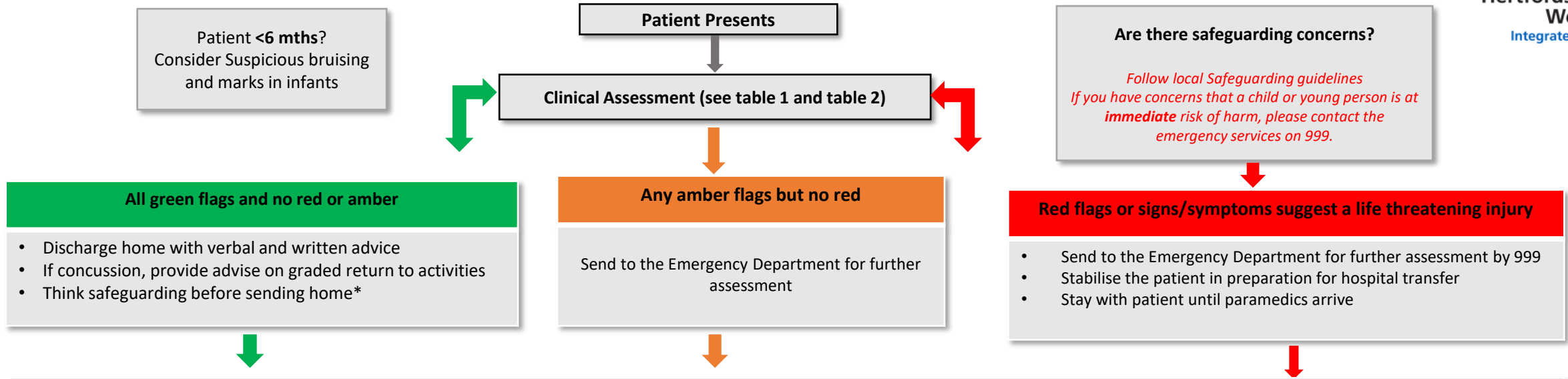


Table 1: Risk Assessment for Head Injury

	Green - Low Risk	Amber- Intermediate Risk	Red- High Risk
Nature of injury and conscious level	<ul style="list-style-type: none"> Low risk mechanism of injury No loss of consciousness Child cried immediately after injury Alert, interacting with parent, easily rousable Behaviour considered normal by parent 	<ul style="list-style-type: none"> Mechanism of injury: fall from a height > 1m or greater than child's own height Alert but irritable and/or altered behaviour Any loss of consciousness because of injury from which person has now recovered 	<ul style="list-style-type: none"> Mechanism of injury: considered dangerous (high speed road traffic accident; >3m fall) GCS < 15 / altered level of consciousness Loss of consciousness lasting > 5mins Persisting abnormal drowsiness Post traumatic seizure
Symptoms and Signs	<ul style="list-style-type: none"> No more than 2 isolated episodes of vomiting (>10 minutes apart) Minor bruising or minor cuts to the head 	<ul style="list-style-type: none"> Any vomiting episodes since the injury (use clinical judgement about the cause of vomiting in children 12 years or under and the need for referral) Persistent or worsening headache • Amnesia or repetitive speech A bruise, swelling or laceration > 5cm if age < 1 year Continued Professional concern 	<ul style="list-style-type: none"> Skull fracture – open, closed or depressed Tense fontanelle Signs of basal skull fracture (haemotympanum, 'panda' eyes, CSF leakage from ears/ nose; Battle's sign (mastoid ecchymosis) Focal neurological deficit
Other	<p>*If any safeguarding concerns - refer to child safeguarding team immediately</p>	<ul style="list-style-type: none"> Clotting disorder or current anticoagulant or antiplatelet therapy (except aspirin monotherapy) Current drug or alcohol intoxication Safeguarding concerns/ Nobody available to observe child at home Additional parent/carer support required Previous brain surgery or brain injury 	<p>Send via ambulance if there is no other way of safely transporting patient</p>

Table 2: Head Injury : Clinical Assessment

<p>History:</p> <ul style="list-style-type: none"> • When? Mechanism of injury. • Loss of consciousness? Fitting? Vomiting? • Dizziness? • Amnesia? • Worsening headache? • Clotting disorder? 	<p>Examination:</p> <ul style="list-style-type: none"> • Assess conscious level - GCS (See table below) Confused or repetitive? • Skull integrity (bruises; wounds; boggy swelling) + fontanelle assessment • Signs of base of skull fracture • Signs of focal neurology • Cervical spine
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Table 3: Modified Glasgow Coma Scale for Infants and Children

	Child	Infant	Score
Eye Opening	Spontaneous	Spontaneous	4
	To speech	To speech	3
	To pain only	To pain only	2
	No response	No response	1
Best Verbal Response	Oriented, appropriate	Coos and babbles	5
	Confused	Irritable cries	4
	Inappropriate words	Cries to pain	3
	Incomprehensible sounds	Moans to pain	2
	No response	No response	1
Best Motor Response **	Obey commands	Moves spontaneously and purposefully	6
	Localises painful stimulus	Withdraws to touch	5
	Withdraws in response to pain	Withdraws to response in pain	4
	Flexion in response to pain	Abnormal flexion posture to pain	3
	Extension in response to pain	Abnormal extension posture to pain	2
	No response	No response	1

**** If patient is intubated, unconscious, or preverbal, the most important part of this scale is motor response. Motor response should be carefully evaluated.**