Head Injury Pathway Clinical Assessment/ Management tool for Children

Management - Primary Care and Community Settings





	Green - Iow risk	Amber - intermediate risk	Red - high risk
Nature of injury and conscious level	 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 	 Mechanism of injury: fall from a height > 1m or greater than child's own height Alert but irritable and/or altered behaviour 	 Mechanism of injury: considered dangerous (high sp traffic accident; >3m fall) GCS < 15 / altered level of consciousness Witnessed loss of consciousness lasting > 5mins Persisting abnormal drowsiness Post traumatic seizure
Symptoms & Signs	 No more than 2 episodes of vomiting (>10 minutes apart) Minor bruising or minor cuts to the head 	 3 or more episodes of vomiting (>10 minutes apart) Persistent or worsening headache Amnesia or repetitive speech A bruise, swelling or laceration > 5cm if age < 1 year 	 Skull fracture – open, closed or depressed Tense fontanelle (infants) Signs of basal skull fracture (haemotypanum, 'panda leakage from ears/ nose; Battle's sign (mastoid ecch) Focal neurological deficit
Other		 Clotting disorder Additional parent/carer support required 	



This guidance has been reviewed and adapted by Healthcare professionals across ABUHB with consent from the Hampshire development groups This document was arrived at after careful consideration of the evidence available including but not exclusively NICE, SIGN, EBM data and NHS evidence, as applicable. Healthcare professionals are expected to take it fully into account when exercising their clinical judgement. The guidance does not, however, override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient in consultation with the patient and / or carer.





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Table 2: 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	Obey commands	Moves spontaneously and purposefully	6
response*	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.

Glossary of Terms				
ABC	Airways, Breathing, Circulation			
APLS	Advanced Paediatric Life Support			
AVPU	Alert Voice Pain Unresponsive			
B/P	Blood Pressure			
CPD	Continuous Professional Development			
CRT	Capillary Refill Time			
ED	Hospital Emergency Department			
GCS	Glasgow Coma Scale			
HR	Heart Rate			
MOI	Mechanism of Injury			
PEWS	Paediatric Early Warning Score			
RR	Respiratory Rate			
WBC	White Blood Cell Count			









Figure 1: suggested graded recovery regime following concussion (taken from BMJ 2016;

