Head Injury (Children) Clinical Pathway

(Affix identification label here)									
URN:									
Family name:									
Given name(s):									
Address:									
Date of birth:		Sex:	M	F					

Clinical pathways never replace clinical judgement. Clinical pathway must be varied 0 if not clinically appropriate for the individual patient.

This pathway is designed for use in children up to and including the age of 14 years.

Clinical judgement may require that this clinical pathway is suitable for an older patient.

Signature Log (Every person using this pathway must supply a sample of their initials and signature below)							
Initial	Print Name	Designation	Signature				

Legend

- Senter time completed
- Initial when completed
- Document variance on page 4 Progress Notes (overleaf)

 Enter time completed Initial when completed Document variance on page 4 Progress Notes (overleaf) 		
Assessment Date: / / Time: :	Time	Initial
1. Date and time of symptom onset or accident:		
/ : hrs		
Check Airway, Breathing, Circulation, Disability AVPU &/ GCS at 15-30 minute intervals Exposure and temperature.		
Consider need for c-spine immobilisation		
Assess pupil size and reaction to light		
If GCS < 13, cease this pathway and commence alternative emergency management protocol		
3. Perform first set of neurological observations, pupil response, airway, breathing pattern and adequacy, circulation, disability, pain assessment		
*If GCS less than 15 on arrival or observations cause any concern, escalate to most senior medical officer, continue pathway and regular observations.		
4. Is there a requirement for		
☐ Supplemental oxygenation minimum 4 litres/min via Hudson mask		
☐ Blood Glucose Level(s)		
☐ Temperature maintenance		
☐ Fluid Balance maintenance and monitoring		

5. Systematic examination of each region of the body from head to toe for other potential injuries

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Risk stratification

The following clinical factors are helpful considerations when assessing risk associated with intracranial injury.

Use the table to identify the clinical picture to assess the Overall Level of Risk below. For example, if all features are in the low risk category, consider the low risk management plan unless your clinical judgement determines otherwise.

judgement determines otherwise.								
Select Clinical Features	✓ L	ow Risk	✓	Intermediate Risk	✓	High Risk		
History								
Age	□ >	1yr		< 1yr				
Witnessed loss of consciousness	□ N	0		< 5 mins		> 5 mins		
Anterograde or retrograde amnesia (where assessable)	□ N	0		Possible		> 5 mins		
Behaviour	□ N	ormal		Mild agitation or altered behaviour		Abnormal drowsiness		
Episodes of vomiting without other cause		one or fewer nan 3		3 or more				
Seizure in non-epileptic patient	□ N	0		Impact only		Yes		
Non accidental injury is suspected / parental history inconsistent with injury	□ N	0		No		Yes		
History coagulopathy, bleeding disorder or previous intracranial surgery	□ N	0		No		Yes		
Co-morbidities	□ N	0		Present		Present		
Headache	□ N	0		Yes		Persistent or increasing		
Mechanism of injury Consider age, s	urface,	damage to vel	nicle	or other passengers	and r	method of restraint		
Motor Vehicle Accident (pedestrian, cyclist or occupant)		ow speed		< 60kmph		> 60kmph		
Fall	□ <	1 m		1–3 m		> 3 m		
Force		ow impact		Moderate impact or unclear mechanism		High speed / heavy projectile or object		
Examination								
Glascow Coma Scale	<u> </u>	5		14-15		<14		
Focal neurological abnormality	□ N	il		Nil		Present		
				Haematoma, swelling or		Tense fontanelle in children < 1 yr of age		
Injury				laceration > 5cm		Penetrating injury		
						Suspected depressed skull fracture		
After considering the clinical picture, d	After considering the clinical picture, determine the overall risk and follow the management plan according to							

Overall risk

Overall risk									
Low	Risk		Intermed	liate Risk		High	Risk		
Time:	Initial:		Time:	Initial:		Time:	Initial:		

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(and c-spine if indicated) : AND	Ongoing observation i Enter frequency: - Continue observat Telephone neuros service for advice Telephone QCC (I RSQ) \$\gamma\$ 1300 799 transfer options. Document advice.	tions surgical or RFDS / 127, for
- Half hourly observations for 4 – 6 hours until GCS 15/AVPU within acceptable range and is sustained for 2 hours Then hourly observations until discharge BSL; Pain management AND If symptoms are persistent or worsening: - escalate to senior medical officer - order CT head if indicated - 15 minutely observations / constant	- No significant p - GCS 15/AVPU for 2 hours (ch - No concerns or - No other clinica - Parental/carer hospital staff. F return to medic - Fact sheet prov Telephone or Telephone or	concerns addressed (teaching provided by Parent/carer can verbalise factors requiring cal attention) vided to parent/carer neurosurgical service for advice or QCC (RFDS / RSQ) 2 1300 799 127 for
monitoring	transfer opti	ons. Document advice. nsfer S : S
Full initial assessment plus observations hourly until discharge is clinically appropriate (respirations, oxygen saturation, pulse, BP, temperature, GCS, pupillary response and size, limb strength, pain assessment, sedation score as necessary) If there are deterioration half hourly of continuous and escalat medical offi restratificating Follow identity pathway.	unremarkable No significant persisten / signs e to senior cer for on of risk. iffied risk No concerns of non-acc No other clinical concern Parental/carer concerns	reasonable ed to normal, cidental injury rns s addressed.
Restratify to intermediat S :	// / / / / / / / / / / / / / / / / / /	nospital staff. lise factors ical attention)

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Discharge		Date of birtin	OGX.		Time	Initial
GCS 15 and Tolerating records of the Provide disconsisted Family can sheet "Mino Give parents"	d stable neurological status (conside egular diet without nausea/vomiting charge teaching to parent/carer verbalise an understanding of Queel or Head Injury in Children" and indicat/carer discharge letter	nsland Health Emergency Departm			- Tille	Initial
Clinical Eve	nts / Variance / Progress	you and any other nations related no	otoo			
Date / Time	Describe variances to clinical pathw Document as Variance / Action / C		ites.			Initials