PEDIATRIC MAJOR TRAUMA

Call PTN 1-866-233-2337 to connect to BC Children's Hospital Trauma Lead, Pediatric Transport Advisor for transfers and advice

Pre-determine Age and Estimated Weight Calculate AND Prepare **Medications and Equipment**



			ASSESS	TREAT			
		С	ADDRESS CATASTROPHIC BLEEDING FIRST	Apply Tourniquet or direct pressure as needed, document time. Consider giv			
primary survey	2	Α	 Increased risk for ETT dislodgement and endobronchial intubation Cuffed ETT size = (age in years/4) + 3.5 Intubate for unstable airway OR declining GCS Consider Spinal Motion Restriction 	 RSI medications: Ketamine 1-2 mg/kg IV direct (lower end of dose range if hypotension/ hyp Rocuronium 1 mg/kg IV direct Post Intubation Medications: Morphine IV direct 0.1mg/kg for pt greater than 5kg (max 5mg) and Midaz (Suggest dose range: Midazolam IV direct 0.05-0.1mg/kg max 8mg) Ketamine IV direct (0.5-1mg/kg) 			
	e la	В	 Keep O₂ saturations greater than 95% Check work of breathing, grunting, distress If breathing inadequate, first exclude tension pneumothorax 	 100% O₂ by non-rebreather mask Consider immediate needle decompression or finger thoracostomy Consider chest tube 			
		С	 Assess signs of perfusion: HR, BP, pulse quality, cap refill time, skin temperature Consider abnormal resp rate or declining GCS a marker of inadequate circulation 	 Fluid Resuscitation (consider warming): Normal Saline 20ml/kg x 1 PRBC 10-20ml/kg for active bleeding, or ongoing signs of poor perfusion consider Tranexamic Acid within 3 hours of event and consider Massive Trar Pelvic binder should be centered over the greater trochanter Splint long bone fractures Note: isolated femur fracture unlikely cause of shock 			
	3	D	 Neuroprotection: HOB up 30°, ensure spinal collar is not causing blood flow restriction Assess signs of impending herniation (HR↓, BP↑, irregular resps, asymmetric pupils), target EtCO₂ 35-40 mmHg Obtain blood glucose Ensure moving all four limbs 	 IV osmotics: 3% Saline: 5 mL/kg/dose (max 250 mL) IV intermittent. Start therapy early with Note: will take 15 - 20 min before effects begin Give D10W 5ml/kg/dose for glucose less than 2.6mmol/L, IV intermittent 			
		E	 Maintain normothermia with protective warming measures Assess pain using age appropriate pain scale Log Roll 	 Consider active re-warming (i.e. Bair Hugger, warm blankets, IV warming deviation in the second secon			

TAKE NOTE	→ 2 large IV's or Intraosseous if unable to obtain IV within 2 attempts	CONCERNING PEDIATRIC VITAL SIGNS	AGE	HR	RR	SBP
	→ Obtain labs with Group and Screen		1-12 months	<90 or >180	<30 or >53	≤70
	\rightarrow Do not delay transfer for CT & "Push" imaging to PACS with report		1-2 years	<80 or >140	<22 or >37	≤70
	→ Phone receiving facility ED with report		3-5 years	<65 or >120	<20 or >28	≤80
	→ Send copy of nursing, physician notes, labs, med record, EHS report → Concerns for Child Maltreatment; follow Duty to Report Legislation - call MCFD 1-800-663-9122		6-12 years	<58 or >118	<18 or >25	≤85
	-> Concerns for China Manieanneni, follow Dory to Report Legislation - Call MCrD 1-600-665-7122		12+ years	<50 or >100	<12 or >20	≤90

Provincial Health Services Authority





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povolemia is a concern)

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ansfusion Protocol

ck in young children

th sluggish pupils

vice)).15-0.3mg/kg/

er than 3 months old on for adequate

View the PedMed Online Formulary



Visit PHSA shop.healthcarebc.ca/phsa For Clinical Guidelines



Refer to BC Provincial Pediatric Trauma Team Activation Criteria



More resources at TREKK: Translating Emergency Knowledge for Kids (trekk.ca)

