

P7 – Case Management Series 2 4/3/13

Scenario: Case Management – multi	Patient: 6 year old Sam	Simulator
trauma		Marvin
Case Summary:		Participant Briefing:
6 year old boy, pedestrian vs car at a sl	hopping centre whilst crossing the road.	BAT CALL
Brief LOC, suffering head, abdominal a pressure and GCS requiring fluid mana	nd chest injuries. Deterioration of blood gement and airway control. A co-	6 year old boy Ped vs Car
ordinated team approach based on the BVM ventilation +/- intubation, blood to	e skill set of the managing team involves transfusion and effective	Head injury with LOC, abdominal bruising
communication via phone with senior		HR 120, SBP 95, RR 30, GCS 13
		IV access and Collar
		ETA 3 minutes
Clinical Issues		Human factors / Non technical issues
Structured approach to child with trauma Management of paediatric trauma closed head injury, pulmonary contusions liver laceration		Resource allocation Team communication Communication with child and paramedic. Surgical registrar handover
Learning Objectives:		

Communicate with child & paramedic

Demonstrate a structured assessment of a child with trauma

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Interpret findings & manage appropriately

Communicate effectively in a team









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Faculty Actors: Paramedic

Patient Moulage:

Normal clothing Haematoma above left eye, abrasions to face, chest and abdomen Agitated, moaning

Equipment & Props:

EdWISE Paediatric box and Manikins

BAT CALL

6 year old boy Ped vs Car

Head injury with LOC, abdominal bruising

HR 120, SBP 95, RR 30, GCS 13

IV access and Collar

ETA 3 minutes

Preparation and Planning

Staff – trauma call, allocate roles

Patient – calculate weight

Equipment – prepare size appropriate

Drugs – calculate drug doses appropriate for

weight calculated











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Patient presentation	Expected response by participants	Faculty /Actors Notes
Initial Presentation Child moaning Airway clear RR 30, air entry sl decreased right side SaO2 92% Room air HR 120 BP 90/60 Capillary refill 3 sec Temperature 36 GCS 13 (eyes open, moaning, moving all limbs spontaneously) Pupils equal & reactive	Accept handover from paramedic Structured approach to assessment using DR ABCDE approach Apply monitoring Apply oxygen therapy and gain IV access. Send bloods including group and hold Clear concise communication and effective team work	Paramedic gives brief handover. I: 6 year old boy Sam M: Struck by car at 40 km/hr at pedestrian crossing, thrown 5metres. I: Head injury, haematoma above left eye, bruising to upper right abdo which is tender and tense to palpate, nil other injuries noted S: LOC 2 mins at scene, followed by disorientation. RR 30 HR 120 BP 95/65 GCS 13 T: IV access, C-spine collar A: Nil known allergies M: Nil regular O: Mother en route to hospital
Progression Becomes unresponsive SaO2 92% on Room air, 99% on O2 RR 20 HR 160 CR 4secs BP 90/60 BGL 4.0 mmols	Recognise deterioration and repeat Primary survey. Escalate airway management with BVM and consider need to intubate & call for help if beyond skill set and manage with BVM until appropriate assistance on site. IV fluid bolus and arrange blood transfusion. Ask for surgical and anaesthetic registrars as not yet arrived.	Paramedic can remain to be extra assistance and provide information regarding tactile components of the scenario and prompt to recognise deterioration. Faculty at simulation centre to be voice of help requested.





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Deterioration	Continue skill appropriate management.	If team to intubate the intubation will be uneventful if appropriate doses of induction drugs are given.
O2Sats increase to 99% with effective BVM	Communicate with surgical and anaesthetic staff, NETS team and senior clinicians.	
HR 180 before 2 nd fluid bolus, 140 after CR 5secs before 2 nd fluid bolus, 3 secs after 2 nd fluid bolus BP 75/55 to improve to 95/60 with fluid bolus	Arrange transfer to definitive care with surgical capabilities.	Faculty at simulation centre continue to provide advice on the phone as requested.
Decrease in O2 saturations to 88% on RA, 94% on O2		
CXR pulmonary contusions FAST free fluid - RUQ		
Recovery		

Debrief Guide

Key clinical issues

Assessment and management of trauma in the paediatric setting. Access, analgesia and fluid bolus in shocked trauma patient, including indications for blood transfusion.

Recognition and response to deterioration.

Key non technical issues

Planning preparation and trauma team role allocation.

Team work and communication.

Communication with paramedic and surgical registrar.





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