

<b>Name:</b>	Jessie Howard	<b>Observation at start</b>	<b>CRT:</b>	3s	
<b>D.O.B.</b>	23/04 (Age of mannequin)	<b>RR:</b>	Low	<b>Temp:</b>	36.5
<b>Address:</b>	(Insert local address)	<b>ETCO2:</b>	-	<b>BM:</b>	7.3
		<b>Sats:</b>	92%	<b>Weight:</b>	Age appropriate
<b>Hospital ID:</b>	546 231 8566	<b>Heart Rate:</b>	High for age	<b>Allergy</b>	NKDA
<b>Ward:</b>	ED Resus	<b>BP:</b>	Normal		
<b>Background to scenario</b>		<b>Specific set up</b>			
A paediatric patient is brought to ED resus having fallen down the stairs (or mechanism appropriate for age of mannequin). They are drowsy and have vomited, requiring intubation. After intubation they show signs of increased intracranial pressure which requires further management		Paediatric mannequin On ambulance trolley, on scoop C-spine protection (local protocols) Anaesthetic drugs and airway equipment Hypertonic saline/mannitol available			
<b>Required embedded faculty/actors</b>		<b>Required participants</b>			
ODP ED doctor/trauma team Paediatrician		Anaesthetist All roles can be participants in MDT sim			
<b>Past Medical History</b>					
Usually fit and well. Not fasted – had meal 30 minutes prior to the incident Tripped on toy at top of stairs and fell down half a flight of stairs, no initial loss of consciousness Has been drowsy with paramedics and vomited on route No other obvious injuries					
<b>Drugs Home</b>			<b>Drugs Hospital</b>		
Nil regular			Nil yet		
<b>Brief to participants</b>					
You have been called to a paediatric trauma call. The patient was transferred in without a pre-alert. The ED team have performed the primary survey AMPLE history – as above. Concerns about GCS/airway protection, please can you review for intubation and airway protection					
<b>Scenario Direction</b>					
<b>Stage 1, 0– 5 minutes Assessment and intubation</b>					
<b>A</b>	Clear at present, starting to snore, C spine protection applied. Vomit stains around mouth.				
<b>B</b>	RR slow, sats drifting down 92%, chest clear				
<b>C</b>	HR high for age, BP normal/low normal.				
<b>DE</b>	Drowsy, rousable to pain only. Pupils equal and reactive bilaterally. No other obvious injuries. Moving all 4 limbs (not obeying commands)				
<b>Rx</b>	Assess situation, call for help when appropriate Consideration of fluid resuscitation, blood products (although may not be necessary in this case) Prepare and conduct anaesthetic induction and intubation C-spine protection (manual in line stabilisation), consider orogastric tube for stomach decompression Consideration of neuro-protective strategies Consideration of ongoing sedation, ventilation, place of transfer, next steps Update/communication with parents				
<b>Stage 2, 5–10 minutes – increased ICP</b>					
<b>A</b>	Intubated and ventilated				
<b>B</b>	Sats improve to 96%. Ventilation as per settings applied				
<b>C</b>	HR drops, BP increases				
<b>DE</b>	Anaesthetised. Pupils – R becomes larger, sluggish/fixed				
<b>Rx</b>	Identification of change in situation and declaration of incident Neuroprotective mechanisms Treatment with osmolar therapy – mannitol or hypertonic saline Next steps – CT scan/involvement of neurosurgery/preparation for transfer/theatre Update /communication with parents Scenario can end when discussions/planning of next steps has taken place				

<b>Guidelines</b>	
Pauline M Cullen, MBChB FRCA, Paediatric trauma, Continuing Education in Anaesthesia Critical Care & Pain, Volume 12, Issue 3, June 2012, Pages 157–161, <a href="https://doi.org/10.1093/bjaceaccp/mks010">https://doi.org/10.1093/bjaceaccp/mks010</a> Paediatric Life Support Courses	
<b>Guidance for Parent Role</b>	
Opening lines/questions/cues/key responses What is wrong with my child? They were fine when they fell.	Relevant HPC / PMH History of child as above
Concerns Very concerned about the reduced level of consciousness	Actions Not obstructive, but wants to stay with child
<b>Guidance for ODP role</b>	<b>Guidance for other roles</b>
Actions Support management Can anticipate next steps depending on level of participants	Support MDT decision making
<b>Guidance for Role e.g. ITU/Anaesthetic Senior</b>	<b>Other challenges (depending on level of participant)</b>
Expectations/actions Available by phone but not able to help in person (depending on level of participants)	Difficult IV access, consideration of IO route Parents – upset. Aspects of breaking bad news communication techniques
<b>Session Objectives</b>	
<b>Clinical</b>	Management of paediatric trauma Management of increased ICP in children
<b>Non-technical skills</b>	
<b>Teamworking</b>	Coordinating activities of trauma team, role allocation,, delegation, exchange of information on arrival
<b>Task management</b>	Planning for next steps, prioritising tasks and delegating, utilising protocols
<b>Situational awareness</b>	Gathering information at each step, recognising critically ill patient and deterioration, anticipating next steps
<b>Decision making</b>	Identifying options for management, balancing risks and selecting options – drug/airway choices, continuous re-evaluation

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