

Name:	Jessie Howard	Observation at start		CRT:	3s
D.O.B:	23/04 (Age of mannequin)	RR:	Low	Temp:	36.5
Address:	(Insert local address)	ETCO2:	-	BM:	7.3
		Sats:	92%	Weight:	Age appropriate
Hospital ID:	546 231 8566	Heart Rate:	High for age	Allergy	NKDA
Ward:	ED Resus	BP:	Normal		
Background to scenario			Specific set up		
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		
Required embedded faculty/actors			Required participants		
ODP ED doctor/trauma team Paediatrician			Anaesthetist All roles can be participants in MDT sim		
Past Medical History					
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					
Drugs Home			Drugs Hospital		
Nil regular			Nil yet		
Brief to participants					
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					
Scenario Direction					
Stage 1, 0– 5 minutes Assessment and intubation					
A	Clear at present, starting to snore, C spine protection applied. Vomit stains around mouth.				
B	RR slow, sats drifting down 92%, chest clear				
C	HR high for age, BP normal/low normal.				
DE	Drowsy, rousable to pain only. Pupils equal and reactive bilaterally. No other obvious injuries. Moving all 4 limbs (not obeying commands)				
Rx	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				
Stage 2, 5–10 minutes – increased ICP					
A	Intubated and ventilated				
B	Sats improve to 96%. Ventilation as per settings applied				
C	HR drops, BP increases				
DE	Anaesthetised. Pupils – R becomes larger, sluggish/fixed				
Rx	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				

Guidelines	
Pauline M Cullen, MBChB FRCA, Paediatric trauma, Continuing Education in Anaesthesia Critical Care & Pain, Volume 12, Issue 3, June 2012, Pages 157–161, https://doi.org/10.1093/bjaceaccp/mks010 Paediatric Life Support Courses	
Guidance for Parent Role	
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
Guidance for ODP role	Guidance for other roles
Actions Support management Can anticipate next steps depending on level of participants	Support MDT decision making
Guidance for Role e.g. ITU/Anaesthetic Senior	Other challenges (depending on level of participant)
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
Session Objectives	
Clinical	Management of paediatric trauma Management of increased ICP in children
Non-technical skills	
Teamworking	Coordinating activities of trauma team, role allocation,, delegation, exchange of information on arrival
Task management	Planning for next steps, prioritising tasks and delegating, utilising protocols
Situational awareness	Gathering information at each step, recognising critically ill patient and deterioration, anticipating next steps
Decision making	Identifying options for management, balancing risks and selecting options – drug/airway choices, continuous re-evaluation