

EdWISE Lesson Plan

Trauma Module – T7 / Integrated Case Management – Head Injury [21 Aug 2012]

Subject Topic	EdWISE PROGRAM - OUTLINE OF INTEGRATED CASE MANAGEMENT – HEAD INJURY SIMULATION MODULE	
Framework Profile	Programme: EdWISE	
	T7: Integrated Case Management – Head Injury Simulation Module	
Associated E-Learning tutorials	Webinar – Management of the patient with moderate to severe head injury	
Simulation learning	Case management – Moderate to severe head injury	
objectives	TeamworkNon-Technical skills	
Target Group	Medical and nursing students (mainly observing and learning as part of the team)/ Postgraduate level nurses and doctors (leading scenario and main team members)	
Delivery method	Short PowerPoint presentation followed by a fully immersive simulation requiring inter-professional interaction and teamwork.	
Timeframe	60 mins	









EdWISE Lesson Plan

Trauma Module – T7 / Integrated Case Management – Head Injury [21 Aug 2012]

Resou		

Projector screen & computer

Video conference unit

SIMMAN Essential mannequin – preferred.

1x IV access already in place (Faculty nurse will site the other when asked by the team)

"Make-up/blood" for the back of the head and the sheets/long board/collar

Clothing to put on the mannequin (trousers and a t-shirt/blouse)

Wig to make her female

Female genitals

Stethoscope x2

Oxygen masks – nasal prongs/Hudson mask/ non-rebreathing mask and a bag-valve-mask should all be available.

Oxygen supply – cylinders or piped wall oxygen

Intubation/difficult airway trolley with appropriate equipment for an adult intubation, as present on host site's trolley

C-spine collar

Saturation probe

Saline/Hartmann - 1000ml bags x4

Blood – O negative 4 units (made up prior to scenario and given to the team when asked for)

3-lead ECG leads

NIBP cuff

Arterial Line equipment (Art. line pressure transducer and line should already be run through to save time whilst in the

scenario)

Blood giving sets

Rapid infuser/warmer - Ranger or level 1

Pen torch









EdWISE Lesson Plan

Trauma Module – T7 / Integrated Case Management – Head Injury [21 Aug 2012]

Resources for Session	Glucometer or calculator
Continued	Sheet and blankets and pillows as per the host site's ED
	Infusion pump
	Prefilled syringes – Saline, morphine, propofol, ketamine, thiopentone, suxamethonium, adrenaline, metaraminol, rocuronium
	(or which ever muscle relaxant is used in the host ED),
	Syringe drug labels
	ECG stickers for a 12 lead-ECG
	Laminated ECG showing sinus tachycardia
	Laminated ABG results (2 different results – pre and post intubation)
	X-ray plate/or simulate one
	Laminated normal CXR
	Laminated normal lateral C-spine X-ray
	Laminated normal Skull X-ray
	Gloves/gowns/lead gowns/masks – as per host site PPE for trauma
	Transfer monitor
	Telephone for calling other specialities/colleagues/etc.





Trauma Module – T7 / Integrated Case Management – Head Injury [21 Aug 2012]

Session Structure - EdWISE PROGRAM - TRAUMA SIMULATION MODULE - T7

Timing	Welcome and Introduction	Resource
5 mins	Welcome and Introduction	Video conferencing unit
	Provide Housekeeping – Fire Exits, mobile phones on vibrate	Enough seats for the
	Provide a summary of what the workshop will involve and the expectations from the participants	participants and
	Introduce yourselves - facilitation team, host team and participants. Include experience of trauma patients	arranged in a horseshoe
	EdWISE staff to make a diagram of where faculty and participants are sitting and their names and roles	facing the VC unit and
	If this is not the first module run on that day, the participants are the same and this has been covered previously, then	camera.
	this section can be missed out.	Led by the team over VC
		but with host team
		supplying information
		on the fire
		exits/toilets/etc.
Timing	Main Topic Presentation	
15 mins	PowerPoint presentation giving a brief overview on the assessment, management and investigation of patients with	PowerPoint
	moderate to severe head injuries. The presentation also gives an introduction to teamwork and non-technical tasks/skills.	presentation





This project was possible due to funding made available by Health Workforce Australia



Trauma Module – T7 / Integrated Case Management – Head Injury [21 Aug 2012]

Timing	Familiarisation to Mannequin & equipment		
5 mins	Host site facilitators to familiarise participants to mannequin and to the environment. EdWISE staff should emphasise that	Local faculty to	
	the scenario will be stopped after 15 minutes no matter where they are in the scenario. This is to decrease anxiety if the	familiarise the students	
	scenario is stopped at a critical point in the patient's therapy. It should also be noted that different teams will accomplish	to the environment/	
	different tasks within the 15 minutes and that it is not a test.	mannequin/actors. Can	
		use the familiarisation	
		video, to guide the local	
		faculty, if needed.	
Timing	Simulation – Scenario		
15 mins	Participant Briefing		
	BAT CALL		
	33 year old woman		
	Alleged assault, head injury		
	Sats 95%, RR16, HR 110, BP 125/75, GCS 14		
	Collar, Oxygen, IVF		
	ETA 2 mins		
	Scenario outline		
	Jessica Rabbit is a 33 year-old woman who has been allegedly assaulted on her way home from work. She has been hit on the back of the head with a		
	baseball bat. She has an expanding extra-dural haematoma. She has no other injury. Her GCS deteriorates from 12 to 3 rapidly. She requires		
	intubation, ventilation, sedation and good closed head injury management. Her Cushing's response will improve with appropriate management of		
	her closed head injury.		







Trauma Module – T7 / Integrated Case Management – Head Injury [21 Aug 2012]

Timing	Debrief - Scenario		
15 mins	Key clinical issues: (Pick 2 max! Suggested with *) Structured approach to the assessment and management of a trauma patient Appropriate investigations in a patient with severe closed head injury – especially if the Skull X-ray is ordered. This may vary as per site protocols! Reassessment Detection of deterioration RSI in closed head injury * Management of severe closed head injury *	Key non-technical issues: (Pick 2 max! Will depend on the team. Pick at least one positive topic!) Role allocation Plan and Prepare (for the trauma, for RSI, for transfer?) Management of resources (available at host site) and people Support of team members and support of team leader Communication within team and with appropriate specialities Situational awareness – deterioration and communication of this, facilities and help available at host site, early organisation of resources Monitor and evaluate – patient, team, and progress. Guidelines of host site on treatment/imaging/transfer of head injury patients	
Timing	Summary		
5 mins	 A quick summary of the main learning points Structured approach to the trauma patient Management and investigation of patients with severe closed head injuries Importance of Non-technical skills with the trauma team setting and also day-to-day work. Thank you to participants Thank you to the host site staff Thank you to the EdWISE staff 		





This project was possible due to funding made available by Health Workforce Australia

