

Subject Topic	EdWISE PROGRAM - OUTLINE OF TRAUMA SIMULATION MODULE
Framework Profile	Programme: EdWISE Module T6: The Bleeding Patient
Associated E-Learning tutorials	<ul style="list-style-type: none"> • Webinar – Management of the bleeding patient
Simulation learning objectives	<ul style="list-style-type: none"> • Structured approach to the bleeding patient • Ways of managing haemorrhage in the ED • Avoiding the lethal triad • Massive transfusions • Post ED correction of bleeding • High acuity team skills
Target Group	Postgraduate nurses and doctor (middle grade and above)
Delivery method	A PowerPoint presentation with a review of the ED assessment and management of the bleeding trauma patient. This is followed by an immersive scenario that allows the participants to use their skills and knowledge within a multidisciplinary simulated scenario. The scenario is followed by a facilitated debrief with a focus on clinical and non-technical skill.
Timeframe	60 mins
Resources for session	EdWISE Trauma Box and Extras “Make-up” for the bruising around epigastrium Intubation/difficult airway trolley with appropriate equipment for an adult intubation, as present on host site’s trolley Premade blood Kit for chest tube placement x2 (the patient may need bilateral thoracostomies/chest drains) Underwater seal drains x2

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Resources for Session cont	Laminated ECG showing sinus tachycardia Laminated ABG results x3 Laminated full blood count result Laminated CXR showing right sided haemothorax (1) Laminated CXR showing chest drain in right thorax and with residual blood +/- air (2) Laminated CXR intubated with right haemothorax (3) Laminated CXR intubated and right chest drain in right thorax (4) Ultrasound scanner/ simulated one Telephone for calling other specialities/colleagues/etc.
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Session Structure - EdWISE PROGRAM – TRAUMA SIMULATION MODULE: T6		
Timing	Welcome and Introduction	Resource
5 mins	<p><i>Welcome and Introduction</i></p> <ul style="list-style-type: none"> • Provide Housekeeping – Fire Exits, mobile phones on vibrate • Provide a summary of what the workshop will involve and the expectations from the participants • Introduce yourselves - facilitation team, host team and participants. Include experience of cardiac patients <p>If this is not the first module run on that day, the participants are the same and this has been covered previously, then this section can be missed out.</p>	<p>Video conferencing unit</p> <p>Enough seats for the participants and arranged in a horseshoe facing the VC unit and camera.</p> <p>Led by the team over VC but with host team supplying information on the fire exits/toilets/etc.</p>
Timing	Main Topic Presentation	
25 mins	<p>Presentation covering the session objectives</p> <ul style="list-style-type: none"> • Structured approach to the bleeding patient • Ways of managing haemorrhage in the ED • Avoiding the lethal triad • Massive transfusions • Post ED correction of bleeding • High acuity team skills 	<p>PowerPoint presentation</p>

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Timing	Familiarisation to Mannequin & equipment	
5 mins	Introduce students to mannequin & capabilities	Local faculty to familiarise the students to the environment/ mannequin/actors. Can use the familiarisation video, to guide the local faculty, if needed.
Timing	Simulation – Scenario	
13 mins	<p>Participant Briefing Nicole Kidman 24 year old woman, kicked by her horse in the chest. She is now short of breath and in the resuscitation bay.</p> <p>Scenario outline She has a right haemothorax and a laceration to her liver. She deteriorates due to blood loss and requires transfer to the operating theatre ASAP. As her blood pressure decreases she will become confused and then unresponsive. She does not arrest! She has no other injuries or pain</p>	

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Timing	Debrief Scenario	
10 mins	<p>Clinical Debrief (Address 2 points maximum * = suggested)</p> <p>AcBCDE assessment and management approach *</p> <p>Reassessment with every intervention and change in patient</p> <p>Detection of blood loss *</p> <p>Interpretation of imaging and blood results FAST/CXR/ABGs</p> <p>Massive transfusion protocol/ ordering blood products in face of continued and large blood loss</p> <p>Choice of imaging, investigations or management *</p>	<p>Non-Technical team tasks Debrief (Address 2 points maximum – these will depend upon the team)</p> <p>Role allocation</p> <p>Situational awareness</p> <p>Communication with team – deterioration/decisions/theatre</p> <p>Leadership and followership</p> <p>Mobilising resources/help</p> <p>Decision making – chest drain/CT/OT</p> <p>Handling surgical registrar – inexperienced and asking for more senior input/experienced and? handover of team leadership?</p>
Timing	Summary	
2 mins	<p>An overview of the main clinical and non-technical team tasks covered in this unit</p> <ul style="list-style-type: none"> • Structured approach to the bleeding patient • Ways of managing haemorrhage in the ED • Avoiding the lethal triad • Massive transfusions • Post ED correction of bleeding • High acuity team skills 	

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