

Subject Topic	EdWISE PROGRAM - OUTLINE OF AIRWAY SIMULATION MODULE
Framework Profile	Programme: EdWISE Module A2: Case management
Associated E-Learning tutorials	<ul style="list-style-type: none"> • Bag Valve Mask Ventilation • Insertion of LMA
Simulation learning objectives	<ul style="list-style-type: none"> • Decision making and timing in airway management • Airway assessment, Bag-valve mask ventilation and oxygen delivery systems • Case management: Assisted ventilation in patient with hypoventilation • Case management: Difficult Bag valve mask ventilation/LMA insertion
Target Group	Student/staff level
Delivery method	Brief power point and facilitated discussion. Two immersive scenarios utilising the high fidelity SIMMAN essentials and faculty actor
Timeframe	60 mins
Resources for session	EdWISE Airway box and Extras Billy Connolly Beard Foam “fat” belly Laminated IMISTAMBO handover and investigations Kate Moss Laminated IMIST AMBO handover

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

Session Structure - EdWISE PROGRAM – AIRWAY SIMULATION MODULE A2		
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 Enough seats for the participants and arranged in a horseshoe facing the VC unit and camera. Led by the team over VC but with host team supplying information on the fire exits/toilets/etc.</p>
Timing	Main Topic Presentation	
15 mins	<p>PowerPoint presentation discussing decision making and timing in airway management, the importance of airway management and oxygenation including airway assessment, Bag-valve mask ventilation, Oxygen delivery and advanced airway adjuncts (LMA)</p>	<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 1	
8 mins	<p>Participant Briefing</p> <p>I – Kate Moss, 45 year old woman</p> <p>M – Found on floor by daughter, 3 bottles of wine and 60 x 2mg alprazolam tablets missing. Suicide note next to the patient</p> <p>I – Intoxicated</p> <p>S – HR 68, BP 120/80, Sats 89%, RR 3, GCS 3</p> <p>T – 1 x cannula</p> <p>A – Nil known</p> <p>M – nil regular</p> <p>B – Previous suicide attempt</p> <p>O – daughter is coming in by car</p> <p>Scenario outline</p> <p>On arrival she is apnoeic. After basic airway manoeuvres, her RR only remains 3. She requires assisted bag-valve mask ventilation.</p>	

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Timing	Debrief – Scenario 1
7 mins	<p>Address and maximum of 3 points * = suggested</p> <p>Key clinical issues (Pick a maximum of 2 points * = suggested)</p> <ul style="list-style-type: none"> • Systematic approach to an apnoeic patient* • Demonstrate basic airway manoeuvres • Demonstrate assisted Bag valve mask ventilation and identifies potential difficulties using BOOTS* • Identifying reversible causes of reduced level of consciousness
Timing	Simulation – Scenario 2
8 mins	<p>Participant Briefing</p> <p>I – Billy Connolly is a 65 year-old man who smells very intoxicated.</p> <p>M – Found on the side of the road, possible unwitnessed pedestrian hit and run.</p> <p>I – Head injury, Multiple abrasions, possible C-spine injury.</p> <p>S – He was combative to start with and now he is GCS 8 or 9. Sats about 95-97% via Hudson mask. Respiratory rate 22, BP 140/60 and HR 100 regular. He had been talking and now is only groaning.</p> <p>T – Cervical collar in situ, One cannulae, 10mg maxalon, 5mg morphine.</p> <p>AMB – Billy is well known to the Emergency department staff as he previously presented with an upper airway obstruction and had a surgical airway performed in theatre by ENT.</p> <p>O – The road where Billy was found has a speed limit of 80km/hr.</p> <p>Scenario outline</p> <p>Billy Connolly, 56 year old overweight man, has been drinking and was found by a passer-by on the road after being struck by a car and hitting his head. He has previously had a difficult airway. He was combative in the ambulance and has deteriorated en route. He has a collar on and is now lying still. He deteriorates further in the ED requiring Bag-Valve-Mask ventilation (2 person technique will be beneficial) and LMA insertion.</p>

Timing	Debrief – Scenario 2	
7 mins	<p>Key clinical issues. Pick 2 max *recommended</p> <p>Predictors of difficult Bag-Valve-Mask ventilation *</p> <p>Use of airway adjuncts</p> <p>LMA insertion *</p> <p>Use of ET CO2</p> <p>Equipment and drugs needed for intubation</p>	<p>Key non technical issues: Pick 2 max</p> <p>2 person BVM technique – if this was not attempted, explore why</p> <p>Sources of airway and trauma help within their hospital/ED</p> <p>Situational awareness</p> <p>Role allocation</p> <p>Team leadership and allocation of this role</p> <p>Communication</p>
Timing	Summary	
5 mins	<ul style="list-style-type: none"> • Systematic approach to an apnoeic patient • Management of a patient with hypoventilation • Overcoming difficulties in bag-valve mask ventilation • Thank the host team and the team at SCSSC 	

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