

Subject Topic	EdWISE PROGRAM - OUTLINE OF C5 SIMULATION MODULE Structured Approach to Arrhythmias and Bradyarrhythmias
Framework Profile	Programme: EdWISE
Associated E-Learning or Webinar tutorials	Pacing
Simulation learning objectives	<ul style="list-style-type: none"> •Introduction assessment and management of bradyarrhythmias. •Identify pre-malignant arrhythmias •Demonstrate use of the structured approach
Target Group	Medical and Nursing Students
Delivery method	PowerPoint presentation followed by inter-professional simulation scenario. Facilitated debriefing given at the end of the scenario.
Timeframe	60 mins

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

Resources for session	Projector screen & computer EDWISE Video conference unit SIMMAN mannequin and monitoring Oxygen – piped or cylinder Oxygen masks – Nasal prongs, Hudson mask and Non re-breath masks should be available Stethoscope x 2 ECG machine and leads Stickers for 12 lead ECG Defibrillator and pads specific for mannequin NIBP cuff Saturation probe Gloves and appropriate PPE Monitor to display observations White board if needed IV cannulae – 16+18G Blood test tubes and ABG syringe Pretend or actual X-Ray plate Normal saline bags labelled with Amiodarone, Atropine, Isoprenalin Crystalloid (0.9% NaCl or Hartmann’s 1000ml) Giving sets Local chest pain protocols
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Session Structure - EdWISE PROGRAM - CARDIAC SIMULATION MODULE		
Timing	Welcome and Introduction	Resource
2.5 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	
15 mins	<p>PowerPoint presentation with an interactive workshop introducing and revising</p> <ul style="list-style-type: none"> • Structured approach • Haemodynamic Stability • Bradycardias 	

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Timing	Familiarisation to the Mannequin and Equipment	
2.5 Min	Introduce the participants to the environment and the mannequin	Local faculty to familiarise the students to the environment/ mannequin/actors. Can use the familiarisation video, to guide the local faculty, if needed.
Timing	Pacing	
5 mins	Practical session on pacing. Either: <ul style="list-style-type: none"> • Pacing video • Facilitator led demonstration 	
Timing	Simulation	
7.5 Min	Participant Briefing Fred Flintstone 54 year old man is sitting upright in the ambulance trolley waiting to offload. He complained of chest pain in the office and his colleagues called an ambulance. On arrival, his pain had resolved. He begins to complain of pain and dizziness	
Timing	Debrief	
7.5 Min	Clinical – Use of the structured Approach, Haemodynamic Stability Non-Technical Skills – Any factors which helped or impeded the function of the team	

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Timing	Simulation	
10 Min	George Jetson 79 year old man presents with dizziness for the past 4 hours. Triage noted his heart rate was slow.	
Timing	Debrief	
10 Min	Clinical – Use of the structured approach, Pharmacological and non-Pharmacological treatment of bradycardia. Non-Technical Skills – Any factors which helped or impeded the function of the team	
Timing	Summary	
2.5 Min	<ul style="list-style-type: none"> • Use a structured clinical approach to arrhythmias – both fast and slow • Apply the “Stable or Unstable?” rule – it is the most important question at the bedside • Recognise malignant arrhythmias (cardiac arrest) and pre-malignant bradyarrhythmias • Be methodical in your approach to diagnosis in the underlying rhythm • Look for causes and contributors 	

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