

<b>Subject Topic</b>	<b>EdWISE PROGRAM - OUTLINE OF C6 SIMULATION MODULE</b> (Advanced Arrhythmia Management)
<b>Framework Profile</b>	<b>Programme:</b> EdWISE
<b>Associated E-Learning or Webinar tutorials</b>	<ul style="list-style-type: none"> <li>• Use of a defibrillator for cardioversion – eLearning tutorial</li> </ul>
<b>Simulation learning objectives</b>	<p>This session aims to outline</p> <ul style="list-style-type: none"> <li>• The structured approach to the patient with a tachyarrhythmia</li> <li>• Principles of management of tachyarrhythmias</li> <li>• Electrical versus chemical cardioversion</li> <li>• The procedure of cardioversion</li> <li>• The use of sedation and drugs to aid the management of these patients</li> <li>• Potential complications</li> </ul>
<b>Target Group</b>	Postgraduate nurses and doctors
<b>Delivery method</b>	This multimodal session utilises PowerPoint presentation led didactic teaching covering the topic. Embedded within this presentation are a few brief scenarios highlighting various arrhythmias. Following the presentation there is a video-based or host facilitator led demonstration of defibrillator use and then a fully immersive simulation scenario. This allows multidisciplinary training and practice of skills and knowledge gained from previous aspects of the session. After the simulation scenario facilitated feedback will be given.
<b>Timeframe</b>	60 mins

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<b>Resources for session</b>	Projector screen & computer Video conference unit SIMMAN 3G mannequin Oxygen – piped or cylinder Oxygen masks – Nasal prongs, Hudson mask and Non re- available Stethoscope x 2 ECG machine and leads Stickers for 12 lead ECG Laminated ECG showing AF and VT 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 Syringes with drugs pre-drawn ( Normal saline bags labelled Aspirin in a tablet cup Clopidogrel in a tablet cup GTN spray for below the tongue Crystalloid (0.9% NaCl or Hartmann’s 1000ml) Giving set for the above fluid Syringe pump
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Session Structure - EdWISE PROGRAM - CARDIAC SIMULATION MODULE – C6		
Timing	Welcome and Introduction	Resource
5 mins	<p><i>Welcome and Introduction</i></p> <ul style="list-style-type: none"> <li>• Provide Housekeeping – Fire Exits, mobile phones on vibrate</li> <li>• Provide a summary of what the workshop will involve and the expectations from the participants</li> <li>• Introduce yourselves - facilitation team, host team and participants. Include experience of cardiac patients</li> </ul> <p><b>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.</b></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	
20 mins	<p><i>Introduce learning objectives for C6 module: Deliver C6 session overview presentation with combined brief scenarios for each stable arrhythmia</i></p> <ul style="list-style-type: none"> <li>• Introduction to simulation &amp; confidentiality</li> <li>• Structured approach to assessment and management of arrhythmia</li> </ul>	<p>PowerPoint presentation          Manikin          Monitor          Laminated ECGs</p>

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<b>Timing</b>	<b>Familiarisation to Mannequin &amp; equipment</b>	
2.5 mins	Introduce students 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.
<b>Timing</b>	<b>Cardioversion</b>	
5 mins	Practical session on cardioversion. Either: <ul style="list-style-type: none"> <li>• Cardioversion video</li> <li>• Facilitator led demonstration</li> </ul>	
<b>Timing</b>	<b>Simulation</b>	
17.5 mins	<p><b>Participant Briefing</b>          70-year-old man presents with SOB and palpitations after a session of lawn bowls this evening. He has a significant cardiac history. He has been triaged and placed into the resuscitation bay.</p> <p><b>Scenario Outline</b>          Richie presents in “stable” AF then deteriorates into a conscious VT associated with chest pain          Participants should quickly adapt management to mirror the change from “stable” to “unstable” arrhythmia</p>	

Timing	Debrief
8 mins	Clinical Issues (concentrate mainly on these) <ul style="list-style-type: none"> <li>• Identification of stable and unstable arrhythmias</li> <li>• Management of stable and unstable arrhythmias</li> </ul> Non-technical issues <ul style="list-style-type: none"> <li>• Situational awareness</li> <li>• Communication</li> </ul>
Timing	Summary
2 mins	<i>Summarise key messages from session;</i> <ul style="list-style-type: none"> <li>• <i>Importance of a structured approach to assessment and management of patients with tachyarrhythmias.</i></li> <li>• <i>Indications and appropriate use of electrical and chemical cardioversion.</i></li> <li>• <i>Care when using sedative drugs in this patient population</i></li> <li>• <i>Importance of non-technical skills</i></li> </ul>

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