

## IACC 2023 Case-based discussion (CBD) scenario

<b>Specialty:</b>	<b>Cardiac Science (CRM)</b>
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### CBD Scenario

<b>CBD Scenario Title</b>	Pacemaker Box Change of a pacing dependent patient										
<b>CBD Scenario Aim</b>	Candidate to show safe management of a pacemaker dependent patient during generator box change										
<b>CBD Focus</b> (please provide the codes of the module(s) this scenario addresses)	SPS122										
<b>GSP Domains covered</b> (enter X to indicate all that apply)	<b>GSP 1</b>	X	<b>GSP 2</b>	X	<b>GSP 3</b>	X	<b>GSP 4</b>		<b>GSP 5</b>		
<b>CBD Scenario description</b>	<p>You are about to start a pacemaker box change procedure in the catheter lab for a patient with a single chamber pacemaker and a ventricular lead that has previously been programmed with unipolar pacing.</p> <p>What would your immediate next steps be and how would you manage this patient?</p>										
<b>CBD Scenario model answer/ assessor guidance</b>  Detailed guidance that will be available for the assessors. Include guidance on what kinds of behaviours, actions, comments should secure a pass. What should the assessor expect to see? Assessors will be asked to plan questions in advance including links to trainee's IACC submission.	<p>Student to demonstrate understand mechanism of pacing, the implications of loss of pacing and formulation of a plan to minimise the loss of ventricular capture during the procedure.</p> <p>Pass Indicators - Some or all of the following points discussed:-</p> <ul style="list-style-type: none"> <li>Establish reason for lead programmed to unipolar (bipolar lead impedance; high threshold; no capture) through pacing manoeuvres or review of previous notes</li> <li>Program device with base rate of 30bpm to encourage intrinsic rhythm</li> <li>Considers reason why pacing will not capture ventricle once device generator is removed from pocket</li> <li>Formulates plan with consultant to ensure minimal loss of pacing capture (temporary pacing wire, pacing through PSA)</li> </ul>										

## IACC 2023 CBD Scenario Descriptor

	Fail Indicator - Does not consider reasons behind loss of ventricular capture or formulate plan to minimise loss of capture, resulting in lengthy period of asystole.
<b>Trainee instructions</b>  Please include any specific information to be provided to the trainee as part of the CBD scenario	No additional instructions

### Criteria being assessed by this CBD scenario

Aspect	Please indicate if this criterion is being assessed
1. Understands the clinical context of the scenario, including priority setting and testing strategies	X
2. Understands scientific principles of scenario	X
3. Can discuss the relevant procedures involved in the scenario and associated health and safety issues	
4. Understands and applies the appropriate test validation, IQC, EQA, relevant professional/clinical guidelines	
5. Understands and applies associated IT/bioinformatics and other appropriate resources	
6. Is able to interpret and report patient results and provide appropriate clinical advice	
7. Can discuss the significance of patient results within the clinical context of the referral	X
8. Understands the ethical, legal and social implications of the scenario	
9. Is aware of the importance of audit and can use this tool effectively	
10. Output meets accepted laboratory/professional standards	
11. Demonstrates awareness of the limits of responsibility and when to seek advice	
12. Consideration of patient/professionalism	X
13. Overall ability to perform	X

