**Cardiothoracics**

Intermediate Level

Core clinical learning outcomes

(requires minimum of 1 A-CEX, all discussion topics signed, 2 x Case-Based Discussions as specified, mandatory DOPS as specified).

**Intermediate**:

Deliver safe and effective perioperative anaesthetic care to patients undergoing elective coronary artery surgery and patients undergoing minor thoracic investigative procedures under direct supervision.

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| ***Assessment Code*** | ***Assessment*** | ***Assessment Methods*** | ***Documented and Dates*** |
| **CT\_IK\_01****CT\_IK\_06** | **Explains pre-operative assessment and optimisation of patients with cardiac disease. Explains the results of the special investigations used during assessment of patients with cardiac disease including X-rays, coronary angiography, ECHO and scanning techniques: CT, MRI and PET** | **Discussion** |  |
| **CT\_IK\_02** | **Understands and explains the principles of cardiopulmonary bypass including the use of cardioplegia** | **Discussion** |  |
| **CT\_IK\_10** | **Evaluates the indications for invasive and non-invasive cardiovascular monitoring and is able to interpret the common findings** | **Discussion** |  |
| **CT\_IK\_08** | **Describes the anaesthetic and surgical problems associated with Off-pump cardiac surgery** | **Discussion** |  |
| **CT\_IK\_13** | **Describes the indications for cardiac pacing and lists the different modes available** | **Discussion** |  |
| **CT\_IK\_14** | **Describes the principles of action and the use of, intra-aortic balloon counter-pulsation and other assist devices** | **Discussion** |  |
| **CT\_IK\_12** | **Diagnosis and management of coagulopathy and bleeding during and post cardiac surgery** | **Discussion** |  |
| **CT\_IK\_16** | **Recalls/explains the indications for the use of inotropes and vasodilators during cardiac surgery** | **Discussion** |  |
| **CT\_IK\_09**  | **Describes the problems associated with post cardiac surgery period including bleeding and the clinical signs and symptoms of cardiac tamponade and its management** | **Discussion** |  |
| **CT\_IS\_01** | **Demonstrates the ability to assess and give a risk assessment for patients presenting for cardiac surgery including those with valvular and ischemic heart disease** | **Case-based discussion (using proforma)** |  |
| **CT\_IK\_04** | **Understands the pathophysiological changes and organ dysfunction associated with cardiac disease and their implications in the perioperative period** | **Case-based discussion (using proforma)** |  |
| **CT\_IS\_05** | **Demonstrates correct use of invasive and non-invasive monitoring**  | **DOPS** |  |
| **CT\_IS\_04** | **Forms postoperative care plans appropriate to the surgery and the patient’s condition including postoperative analgesia and respiratory support** | **A,D** |  |
| **CT\_IS\_08** | **Perform anaesthesia for patients having cardiological electrophysiological procedures, including pacemaker insertion** | **A,C,D** |  |
| **CT\_IS\_03** | **Demonstrates safe delivery of perioperative anaesthesia for a patient undergoing elective coronary bypass**  | **A,C,D,M** |  |
| **CT\_IS\_07** | **Demonstrates the ability to provide anaesthesia for procedures in cardiac intensive care including re-sternotomy, re-intubation, tracheostomy and cardioversion** | **A,C,D** |  |
| **CT\_IS\_02** | **Demonstrates the ability to assess patients with intra thoracic aortic pathology such as aneurysm, dissection and coarctation, and give an informed judgement on the risks and benefits of anaesthesia and surgery for the procedure** | **A,C,D,M** |  |
| **CT\_IK\_03** | **Learns from the perioperative management of patients with cardiac disease. Applies knowledge to those requiring non-cardiac surgery** | **A,C,E** |  |