**Cardiothoracics**

Higher Level

Core clinical learning outcomes

(minimum of 1 A-CEX, 2 x discussions as specified, 2 x Case-Based Discussions as specified, mandatory DOPS as specified).

**Higher**:

Deliver perioperative anaesthetic care to complicated adult patients requiring elective aortic or mitral valve surgery under direct supervision. Deliver perioperative anaesthetic care to complicated adult patients requiring resection of lung tissue under local supervision.

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| ***Assessment Code*** | ***Assessment*** | ***Assessment Methods*** | ***Documented and Dates*** |
| **CT\_HK\_01** | **Demonstrates in-depth understanding of commonly performed investigations including: cardiac catheterisation, echocardiography, stress testing, radionucleotide testing and pulmonary function tests.**  | **Discussion** |  |
| **CT\_HK\_08** | **Discusses the management of post-operative bleeding in cardiac patients and is able to describe the signs and symptoms of cardiac tamponade, its clinical management and appropriate investigation (including any appropriate near patient testing) and understands the indications for return to theatre versus continued haematological support** | **Discussion** |  |
| **CT\_HK\_02**  | **Is able to discuss and critically analyse the risks and benefits of available anaesthetic techniques for all aspects of cardiothoracic surgery and cardiology identified at the intermediate level and in addition describe the management of patients with complex cardiac pathologies.**  | **Case-based discussion (using proforma)** |  |
| **CT\_HK\_04** | **Describes the physical, physiological and psychological support required for patients in the immediate postoperative period. Demonstrates an understanding of the changes that can occur in the post-operative period associated with such surgery (include an understanding of post-op cognitive and neurological deficit, timing of withdrawal of mechanical support).** | **Case-based discussion (using proforma)** |  |
| **CT\_HS\_13** | **Demonstrates the ability to provide safe and effective perioperative anaesthetic care to patients undergoing thoracic surgery including procedures such as bronchoscopy, video assisted thoracoscopic surgery and thoracotomy for lung resection.** | **DOPS** |  |
| **CT\_HK\_05** | **Is able to describe the surgical principles involved in common cardiology procedures including coronary stenting, atrial septal defect closure, ablation, pacemaker insertion, defibrillator insertion and other electrophysiological procedures, and their perioperative anaesthetic care** | **A,C** |  |
| **CT\_HK\_07** | **Describes the perioperative anaesthetic management of adult patients with intrathoracic aortic pathology requiring surgery.** | **A,C** |  |
| **CT\_HK\_03** | **Describes the anaesthetic requirements for complex cardiac and thoracic procedures. To include techniques for circulatory arrest, partial bypass, chest wall resection** | **A,C** |  |
| **CT\_HS\_02** | **Demonstrates the ability to provide patients with information on the risks associated with complex cardiac procedures from an anaesthetic perspective** | **A,D** |  |
| **CT\_HS\_03** | **Demonstrates the ability to provide safe and effective perioperative anaesthetic care for high risk cardiac procedures, including valve surgery** | **A,C,D** |  |
| **CT\_HS\_05** | **Demonstrates the ability to manage a patient for cardiopulmonary bypass, including appropriate myocardial protection, coagulation management, transfer to, and the weaning of patients from bypass with local supervision.** | **A,C,D** |  |