Cardiothoracic Anesthesia

Required reading:

Core Topics in Cardiac Anaesthesia, Mackey, J. and Arrowsmith, J.

Manual of Perioperative Care in Adult Cardiac Surgery, Bojar, R.

Week 1:
- "Basic Principles of Cardiac Surgery", pages 101-103
- "Patient Selection and Risk Stratification", pages 97-100
- "Anesthesia and the Cardiovascular System", pages 33-37
- "Premedication, Induction and Maintenance", pages 149-152
- "Cardiopulmonary Equipment", pages 253-258
- "Conduct of Cardiopulmonary Bypass", pages 153-156
- "Routine Early Postoperative Care", pages 157-160
- "Failure to Wean from Bypass", pages 259-264
- "Effects of CPB on Drug Pharmacokinetics", pages 71-73
- "Anticoagulants and Procoagulants", pages 63-65
- "Coagulopathy during Cardiopulmonary Bypass", pages 265-270

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Week 2:
- "The Pulmonary Artery Catheter", pages 125-128
- "Cardiovascular Management", *Bojar* pages 341-420

Week 3:
- "Aortic Valve Disease", pages 169-173
- "Mitral Valve Disease", pages 175-182
- "Aortic Dissection", pages 187-190
- "Aortic Arch Surgery", pages 191-194
- "Deep Hypothermic Circulatory Arrest", 279-282
- "Descending Thoracic Aorta Surgery", pages 195-200

Week 4:
- "Myocardial Protection", pages 105-109
- "Stunning, Hibernation and Preconditioning", pages 111-115
- "Neurologic Monitoring", pages 141-146

*QUIZ #1*

Thoracic Anesthesia
**Required reading:** Core Topics in Thoracic Anaesthesia, Searl, C. and Ahmed, S.

**Week 5:**

- “Thoracic anatomy”, pages 3-8
- “Respiratory physiology”, pages 9-14
- “Respiratory pharmacology”, pages 15-18
- “Respiratory diseases”, pages 19-32
- “Pre-operative assessment of the thoracic surgical patient”, pages 33-40
- “Significance of age in thoracic anesthesia”, pages 137-144
- “Management of the morbidly obese patient”, pages 145-150
- “Lung isolation”, pages 41-51
- “Management of one-lung ventilation”, pages 52-58
- “Peri-operative intravenous fluid management”, pages 161-165

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**Week 6:**

- “Pain management after thoracotomy”, pages 190-195
- “General post-operative management”, pages 166-170
- “Management of post-operative respiratory problems”, pages 171-176
- “Extracorporeal membrane oxygenation (ECMO)”, pages 177-185
- “Arrhythmias after thoracic surgery”, pages 203-207

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**Week 7:**

- “Anesthetic implications of bronchoscopy”, pages 59-63
- “Anesthesia for pleural and chest wall surgery”, pages 114-117
- “Anesthesia for mediastinoscopy and mediastinal surgery”, pages 68-72
- “Anesthesia for video-assisted thoracoscopic surgery”, pages 75-80
- “Surgical treatment options for emphysema”, pages 86-90
- “Anesthesia for lung resection”, pages 81-85

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**Week 8:**

- “Lung transplantation”, pages 91-98
- “Anesthesia for tracheal surgery”, pages 64-67
- “Anesthesia for esophageal surgery”, pages 105-113
- “Anesthetic management of thoracic trauma”, pages 118-136
- “Management of thoracic surgical emergencies”, pages 151-160

**Date/Initials**

*QUIZ #2*

*MOCK ORAL*

**Recommended reading:**

A Practical Approach to Cardiac Anesthesia, Hensley, F.
Manual of Perioperative Care in Adult Cardiac Surgery, Bojar, R.

Additional resources:

Free online CV surgery texts:
http://www.ctsnet.org/sections/journalsandbooks/books/index.html

3D Animated TEE Exam:
http://pie.med.utoronto.ca/tee/TEE_content/TEE_standardViews_intro.html

Bronchoscop y simulator:
http://www.thoracic-anesthesia.com/?page_id=2