

<b>Module Title</b>	<b>Coronary artery disease</b> 2006	August 15,
<b>Module Rationale and Competencies</b>	<p>In contemporary practice the assessment of the Cardiothoracic patient requires a thorough understanding of the natural history of Coronary Artery Disease. The role of currently available cardiac investigations and the indications for therapies currently utilised in cardiovascular disease must be appreciated.</p> <p><u>The Graduating Trainee will be able to:</u></p> <ul style="list-style-type: none"> <li>▪ Apply scientific knowledge in practice</li> <li>▪ Formulate a differential diagnosis based on clinical and investigative findings</li> <li>▪ Perform surgery for the management of coronary artery disease and its complications</li> <li>▪ Demonstrate procedural knowledge and technical skill at a level appropriate to cardiothoracic surgery and their level of training</li> <li>▪ Communicate information to patients (and their family) in ways that encourage their participation in informed decision making</li> <li>▪ Promote health maintenance of patients</li> <li>▪ Effectively use resources to balance patient care and systemic demands in a setting of limited and finite system resources</li> <li>▪ Critically appraise new trends in cardiothoracic surgery</li> <li>▪ Appreciate and act according to ethical standards within cardiothoracic surgery</li> </ul>	
<b>Essential Reading</b>	Kirklin/Barratt-Boyes Cardiac Surgery: Morphology, Diagnostic Criteria, Natural History, Techniques, Results, and Indications Nicholas T. Kouchoukos (Editor), Churchill Livingstone (November 2003)	
<b>Recommended Reading</b>	Glenn's Thoracic and Cardiovascular Surgery (6th edition) Authors: Arthur E. Baue (Editor), Hillel Laks (Editor), Mastery of Cardiac Surgery ISBN: 0316482102 Cardiac Surgery in the Adult Lawrence H. Cohn & L. Henry Edmunds	
<b>References</b>	<a href="http://www.ctsnet.org/">http://www.ctsnet.org/</a> <a href="http://www.ctsnet.org/residents/ctsn/">http://www.ctsnet.org/residents/ctsn/</a>	
<b>Learning Opportunities and Methods</b>	<p>Clinical-Ward teaching</p> <ul style="list-style-type: none"> <li>- supervised ward rounds with consultant surgeon</li> <li>- multidisciplinary meetings within each unit</li> <li>- clinical audit meetings within each unit</li> <li>- structured teaching program within each unit including trainee presentations and journal club</li> </ul> <p>Clinical-Operating room teaching</p> <ul style="list-style-type: none"> <li>- structured program for progression and assessment of surgical skills</li> <li>- assistance with and observation of methods and techniques used for complicated surgery</li> </ul> <p>Online Image Bank with Case Scenarios  Online access to current journals within each unit  Access to unit database for research purposes</p>	

<b>Assessment and Examination</b>	<p>Self Assessment Tasks - multiple choice and short answer questions (have hyperlink)</p> <p>Essay Questions - set by and submitted regularly to unit's supervisor of surgical training</p> <p>Clinical Vivas - short and long cases performed with consultant surgeons</p> <p>Clinical Assessment and Mentor Reports</p>
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Level One	Level Two	Level Three	Level Four
<ul style="list-style-type: none"> <li>• Take a history, examine, diagnose, perform (and/or arrange for) appropriate therapeutic procedures, and manage patients exhibiting Coronary Artery disease</li> <li>• Apply their thorough knowledge of the anatomy, physiology, and pathology of disorders of the Coronary system to accurately diagnose patients</li> <li>• Interpret radiographic anatomy of the coronary arteries and the heart</li> <li>• Compare the normal and variant anatomy of coronary circulation</li> <li>• Analyse the physiology of the coronary circulation and the derangements caused by stenosis and obstruction.</li> <li>• Discuss the development of the atherosclerotic plaque</li> <li>• Compare and contrast the risks and benefits of coronary angiography, percutaneous balloon angioplasty and stenting and coronary surgery</li> </ul>	<ul style="list-style-type: none"> <li>• Select medically appropriate investigative tools to carry out clinical investigations and monitoring techniques in a cost-effective, ethical and effective manner</li> <li>• Accurately identify risk factors associated with coronary artery conditions</li> <li>• Review the rationale for and techniques of coronary artery bypass surgery as well as the use of various conduits</li> </ul>	<ul style="list-style-type: none"> <li>• Communicate information about procedures and risks in relation to disorders of the Coronary Artery to patients (and/or their family) in ways that encourage their participation in informed decision making and on-going management</li> <li>• Apply their thorough knowledge of the anatomy, physiology, and pathology of disorders of the Coronary system to effectively manage patients</li> <li>• Advise patients and their families on health maintenance with Coronary Artery Disease</li> </ul>	<ul style="list-style-type: none"> <li>• Carry out the pre and postoperative care of patients undergoing coronary surgery</li> <li>• Interpret and discuss the available literature regarding the outcomes of interventions for coronary artery disease</li> </ul>
<ul style="list-style-type: none"> <li>• Evaluate patients with angina pectoris, unstable angina pectoris and acute myocardial infarction</li> <li>• Read and interpret invasive and non invasive tests of patients with ischaemic heart disease</li> <li>• Direct the critical care management of pre and post operative patients with ischaemic heart disease</li> </ul>	<ul style="list-style-type: none"> <li>• Perform operative and non-operative management of patients with ischaemic heart disease</li> <li>• Participate in the performance and evaluation of transthoracic and transoesophageal echocardiograms</li> </ul>	<ul style="list-style-type: none"> <li>• Perform operative and non-operative management of patients with ischaemic heart disease</li> <li>• Participate in performs surgery for the complications of myocardial infarction</li> </ul>	

