

Module Title	Mediastinum and Pericardium	August 16, 2006
Module Rationale and Competencies	<p>In contemporary practice the assessment of the Cardiothoracic patient requires a thorough understanding of the anatomy and pathology of the lungs and pleura. The role of currently available investigations and the indications for therapies currently utilised in the management of mediastinal and pericardial disease must be appreciated.</p> <p><u>The Graduating Trainee will be able to:</u></p> <ul style="list-style-type: none"> ▪ Apply scientific knowledge in practice ▪ Demonstrate the manual dexterity and technical skills to carry out procedures ▪ Critically analyse their own clinical performance for continuous improvement ▪ Formulate and implement a management plan for cardiothoracic surgical disorders taking into account that intervention may include operative and non-operative options - non-operative may include medical, drug and per-cutaneous and palliative options ▪ Critically evaluate the advantages and disadvantages of different investigative modalities ▪ Communicate to patients (and their family) the treatment options, potential benefits, complications and risks associated with all treatment modalities ▪ Maintain clinically relevant and accurate contemporaneous records ▪ Assume responsibility for own on-going learning 	
Essential Reading	Glenn's Thoracic and Cardiovascular Surgery (6th edition) Authors: Arthur E. Baue (Editor), Hillel Laks (Editor),	
Recommended Reading	General Thoracic Surgery Thomas W. Shields, M.D. (Editor), Thomas W. Shields, M.D. , Joseph Locicero, III, , Ronald B. Ponn, M.D. , Valerie W. Rusch, M.D. August 2004 ISBN: 078173889X	
References	http://www.ctsnet.org/ http://www.ctsnet.org/residents/ctsn/	
Learning Opportunities and Methods	<p>Clinical-Ward teaching</p> <ul style="list-style-type: none"> - supervised ward rounds with consultant surgeon - multidisciplinary meetings within each unit - clinical audit meetings within each unit - structured teaching program within each unit including trainee presentations and journal club <p>Clinical-Operating room teaching</p> <ul style="list-style-type: none"> - structured program for progression and assessment of surgical skills - assistance with and observation of methods and techniques used for complicated surgery <p>Online Image Bank with Case Scenarios</p> <p>Online access to current journals within each unit</p> <p>Access to unit database for research purposes</p>	
Assessment and Examination	<p>Self Assessment Tasks</p> <ul style="list-style-type: none"> - multiple choice and short answer questions (have hyperlink) <p>Essay Questions</p> <ul style="list-style-type: none"> - set by and submitted regularly to unit's supervisor of surgical training <p>Clinical Vivas</p> <ul style="list-style-type: none"> - short and long cases performed with consultant surgeons <p>Clinical Assessment and Mentor Reports</p>	

Level One	Level Two	Level Three	Level Four
<ul style="list-style-type: none"> • Describe the normal and variant anatomy of the mediastinum and pericardium • Explain the anatomic boundaries of the mediastinum and the structures found within each region; • Explain signs and symptoms associated with mediastinal abnormalities; • Discuss pericardial constriction and its management • Explain clinical-pathological features of thymoma • Explain classification, diagnosis and treatment of thymic tumors • Discuss the development of the mediastinum and pericardium • Interpret radiographic anatomy of the mediastinum and pericardium • Discuss medical and surgical therapeutic options for patients with myasthenia gravis; • Explain clinical presentation, radiological investigation and treatment of mediastinal cysts and esophageal duplications • Take a history, examine, diagnose patients exhibiting diseases of the mediastinum and pericardium 	<ul style="list-style-type: none"> • Accurately identify risk factors associated with surgery of the lungs and pleura • Discuss various open surgery procedures and VATS approach to the mediastinum; • Select medically appropriate investigative tools to carry out clinical investigations and monitoring techniques in a cost-effective, ethical and effective manner • Discuss presentation, diagnostic evaluation, staging, surgical and non-surgical treatment and prognosis of thymic carcinoma • Apply their thorough knowledge of the anatomy, physiology, and pathology of disorders of the mediastinum and pericardium to accurately diagnose and effectively manage patients • Discuss diagnosis and the role of surgery, radio and chemotherapy in the treatment of thymoma; • Discuss the investigation and surgical management of posterior mediastinal tumours 	<ul style="list-style-type: none"> • Communicate information about procedures and risks in relation to disorders of the mediastinum and pericardium to patients (and/or their family) in ways that encourage their participation in informed decision making and on-going management • Carry out the pre and postoperative care of patients undergoing surgery of the mediastinum and pericardium • Review the rationale for and techniques of surgery of the mediastinum and pericardium • Perform (and/or arrange for) appropriate therapeutic procedures, and manage patients exhibiting diseases of the mediastinum and pericardium 	<ul style="list-style-type: none"> • Manage patients (operatively and non-operatively) with diseases of the mediastinum and pericardium • Perform surgery for the management of diseases of the mediastinum and pericardium • Interpret and discuss the available literature regarding the outcomes of interventions for diseases of the mediastinum and pericardium
<ul style="list-style-type: none"> • Evaluate patients with mediastinal and pericardial disease • Read and interpret invasive and non invasive tests of patients with mediastinal and pericardial disease • Direct the critical care management of pre and post operative patients mediastinal and pericardial disease 	<ul style="list-style-type: none"> • Perform operative and non-operative management of patients with mediastinal and pericardial disease 	<ul style="list-style-type: none"> • Perform operative and non-operative management pericardial constriction 	<ul style="list-style-type: none"> • Perform operative and non-operative management of patients with mediastinal and pericardial disease • Perform open and videoscopic surgery of the mediastinum and pericardium