

	<b>Thoracic Trauma</b> <span style="float: right;">August 16, 2006</span>
<b>Module Rationale and Competencies</b>	<p>In contemporary practice the assessment of the Cardiothoracic patient requires a thorough understanding of the assessment and manage. 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>▪ Recognise and solve real-life problems</li> <li>▪ Adapt their skills in the context of each patient and each procedure</li> <li>▪ Critically analyse their own clinical performance for continuous improvement</li> <li>▪ Effectively manage complications of operative procedures and the underlying disease process</li> <li>▪ Manage complexity and uncertainty with sound judgment</li> <li>▪ Manage patients in ways that demonstrate sensitivity to their physical, social, cultural, and psychological needs</li> <li>▪ Plan and implement appropriate surveillance programs for cardiothoracic surgical disorders</li> <li>▪ Appropriately adjust the way they communicate with patients to accommodate cultural and linguistic differences and emotional status</li> <li>▪ Communicate with and co-ordinate surgical teams to achieve an optimal surgical environment</li> <li>▪ Recognise the need to refer patients to other professionals</li> <li>▪ Maintain accurate records</li> </ul>
<b>Essential Reading</b>	<p>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</p>
<b>Recommended Reading</b>	<p>Glenn's Thoracic and Cardiovascular Surgery (6th edition) Authors: Arthur E. Baue (Editor), Hillel Laks (Editor),</p>
<b>References</b>	<p><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></p>
<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 programme 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 programme 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>• Explain the mechanisms of chest trauma</li> <li>• Discuss the pathophysiology of injury to the chest wall, heart, mediastinum, great vessels, oesophagus, diaphragm</li> <li>• Compare the normal and variant anatomy of the thorax, thoracic inlet and diaphragm, and the relationship of the adjacent structures</li> <li>• Take a history, examine, diagnose patients with thoracic trauma</li> <li>• Interpret radiography, CT, MRI, echocardiography and angiography</li> <li>• Apply their thorough knowledge of the anatomy, physiology, and pathology of thoracic trauma to accurately diagnose and effectively manage patients</li> </ul>	<ul style="list-style-type: none"> <li>• Compare and differentiate between the risks and benefits of imaging modalities</li> <li>• Summarise the rationale for and techniques of surgery for thoracic trauma</li> <li>• Accurately identify risk factors associated with thoracic trauma</li> <li>• Select medically appropriate investigative tools to carry out clinical investigations and monitoring techniques in a cost-effective, ethical and effective manner</li> </ul>	<ul style="list-style-type: none"> <li>• Carry out the pre and postoperative care of patients with thoracic trauma</li> <li>• Perform (and/or arrange for) appropriate therapeutic procedures, and manage patients (operatively and non-operatively) with thoracic trauma</li> <li>• Communicate information about procedures and risks in relation to thoracic trauma to patients (and/or their family) in ways that encourage their participation in informed decision making and on-going management</li> <li>• Manage patient's clinical needs in a complex environment</li> </ul>	<ul style="list-style-type: none"> <li>• Interpret and discuss the available literature regarding the outcomes of interventions for thoracic trauma</li> <li>• Perform surgery for thoracic trauma chest tube insertion, trauma thoracotomy, VATS, decortication, lung resection, repair of great vessels, myocardial rupture/penetration, diaphragmatic rupture</li> <li>• Work as a collaborative member of a interdisciplinary team where appropriate</li> <li>• Manage and lead clinical teams where appropriate</li> </ul>
<ul style="list-style-type: none"> <li>• Evaluate patients with thoracic trauma</li> <li>• Read and interpret tests of patients with thoracic trauma</li> <li>• Direct the critical care management of pre and post operative patients with thoracic trauma</li> </ul>	<ul style="list-style-type: none"> <li>• Perform operative and non-operative management of patients with thoracic trauma</li> </ul>	<ul style="list-style-type: none"> <li>• Perform operative and non-operative management of patients with thoracic trauma</li> </ul>	<ul style="list-style-type: none"> <li>• Perform operative and non-operative management of thoracic trauma</li> <li>• Perform surgery for traumatic injury of the great vessels</li> </ul>