

	<b>Lung Transplantation</b>	August 16, 2006
<b>Module Rationale and Competencies</b>	<p>In contemporary practice the assessment and management of the Cardiothoracic patient requires a thorough understanding of the natural history of end-stage respiratory failure. The role of currently available investigations and the indications for therapies currently utilised in respiratory must be appreciated.</p> <p><u>The Graduating Trainee will be able to:</u></p> <ul style="list-style-type: none"> <li>▪ Demonstrate currency of knowledge</li> <li>▪ Demonstrate procedural knowledge and technical skill at a level appropriate to cardiothoracic transplantation</li> <li>▪ Demonstrate the manual dexterity and technical skills to carry out procedures</li> <li>▪ Accurately identify the risks and benefits of the chosen management plan and its alternatives</li> <li>▪ Manage complexity and uncertainty with sound judgment</li> <li>▪ Critically evaluate new technologies and procedures</li> <li>▪ Plan and implement appropriate surveillance programs for cardiothoracic surgical disorders</li> <li>▪ Communicate to patients (and their family) the treatment options, potential benefits, complications and risks associated with all treatment modalities</li> <li>▪ Collaborate with other professionals in the selection and use of various treatment modalities and assess the potential effectiveness of each management option</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> </ul>	
<b>Essential Reading</b>	Heart and Lung Transplantation <b>ISBN:</b> 0721673635	
<b>Recommended 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> <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.corereview.org/">http://www.corereview.org/</a></p> <p><a href="http://www.ctsnet.org/">http://www.ctsnet.org/</a></p> <p><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 in selected Transplantation Units</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 access to current journals within each unit Access to unit database for research purposes</p>
<b>Assessment and Examination</b>	<p>Self Assessment Tasks</p> <ul style="list-style-type: none"> <li>- multiple choice and short answer questions</li> </ul> <p>Thoracic Imaging: Case Review by Phillip M., Md Boisselle, Theresa C., MD McCloud      <b>ISBN: 0323006566</b></p> <p>Essay Questions</p> <ul style="list-style-type: none"> <li>- set by and submitted regularly to unit's supervisor of surgical training</li> </ul> <p>Clinical Vivas</p> <ul style="list-style-type: none"> <li>- short and long cases performed with consultant surgeons</li> </ul> <p>Clinical Assessment and Mentor Reports</p>

Level One	Level Two	Level Three	Level Four
<ul style="list-style-type: none"> <li>• Review the issues of evaluating and managing donor organs</li> <li>• Discuss the clinical pathology of lung rejection</li> </ul>	<ul style="list-style-type: none"> <li>• Summarise the pre and postoperative care of patients undergoing lung transplantation surgery</li> <li>• Select medically appropriate investigative tools to carry out clinical investigations and monitoring techniques in a cost-effective, ethical and effective manner</li> <li>• Take a history, examine, diagnose patients with lung transplantation pathology</li> <li>• Explain the indications and carry out the assessment process for Lung and Heart Lung transplantation</li> </ul>	<ul style="list-style-type: none"> <li>• Review the management of immunosuppressive therapy regimes</li> <li>• Communicate information about procedures and risks in relation to disorders of the heart/lung to patients (and/or their family) in ways that encourage their participation in informed decision making and on-going management</li> <li>• Perform (and/or arrange for) appropriate therapeutic procedures, and manage patients with lung transplantation pathology</li> <li>• Recognise the clinical signs and symptoms of pulmonary allograft rejection</li> <li>• Demonstrate the methods of donor organ harvest and preservation</li> </ul>	<ul style="list-style-type: none"> <li>• Perform the surgical techniques particular to single, double and heart lung transplantation</li> <li>• Manage patients (operatively and non-operatively) with lung transplantation pathology</li> </ul>
<ul style="list-style-type: none"> <li>• Read and interpret invasive and non invasive tests of patients with end stage respiratory failure</li> </ul>	<ul style="list-style-type: none"> <li>• Participate in the performance and evaluation of lung transplant patients postoperative care and monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Perform operative management of donor organ procurement and assessment</li> <li>• Participate in the operative management of Lung transplantation</li> </ul>	<ul style="list-style-type: none"> <li>• Perform operative and non-operative management of patients having lung transplantation</li> </ul>

<ul style="list-style-type: none"><li>• Assist in critical care management of pre and post operative patients following lung transplantation</li></ul>			<ul style="list-style-type: none"><li>• Participate in and perform the surgical care in the postoperative period following lung transplantation</li></ul>
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