

Module Title	Trachea and bronchi 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 trachea and bronchi. The role of currently available investigations and the indications for therapies currently utilised in airway disease must be appreciated.</p> <p>The Graduating Trainee will be able to:</p> <ul style="list-style-type: none"> ▪ Apply scientific knowledge in practice ▪ Formulate a differential diagnosis based on clinical and investigative findings ▪ Plan, and where necessary implement a risk management plan ▪ Critically analyse their own clinical performance for continuous improvement ▪ Critically evaluate new technologies and procedures ▪ Appreciate and act according to ethical standards within cardiothoracic surgery ▪ Communicate information to patients (and their family) in ways that encourage their participation in informed decision making and on-going management ▪ Maintain accurate records ▪ Advocate patient health along with primary and secondary prevention of disease ▪ Effectively use resources to balance patient care and systemic demands in a setting of limited and finite system resources
Essential 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
Recommended Reading	Glenn's Thoracic and Cardiovascular Surgery (6th edition) Authors: Arthur E. Baue (Editor), Hillel Laks (Editor),
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 programme within each unit including trainee presentations and journal club <p>Clinical-Operating room teaching</p> <ul style="list-style-type: none"> - structured programme 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 Online access to current journals within each unit Access to unit database for research purposes</p>

Assessment and Examination	<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"> • Interpret radiographic anatomy of the trachea and bronchi • Explain the development of the trachea and bronchi • Describe tests of lung function • Describe staging of lung cancer • Describe the normal and variant anatomy of the trachea and bronchi • Discuss the physiology of the respiration, the mechanisms of breathing • Apply their thorough knowledge of the anatomy, physiology, and pathology of disorders of the trachea and bronchi to accurately diagnose and effectively manage patients • Select medically appropriate investigative tools to carry out clinical investigations and monitoring techniques in a cost-effective, ethical and effective manner 	<ul style="list-style-type: none"> • Review the rationale for and techniques of surgery of trachea and bronchi • Accurately identify risk factors associated with surgery of the trachea and bronchi 	<ul style="list-style-type: none"> • Communicate information about procedures and risks in relation to disorders of the trachea and bronchi 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 trachea and bronchi • Manage patients (operatively and non-operatively) with trachea and bronchi • Advocate life-style changes with patients 	<ul style="list-style-type: none"> • Interpret and discuss the available literature regarding the outcomes of interventions for diseases of trachea and bronchi • Perform surgery for the management of diseases trachea and bronchi and its complications • Audit their own performance
<ul style="list-style-type: none"> • Evaluate patients with diseases of the trachea and bronchi • Read and interpret invasive and non invasive tests of patients with diseases of the trachea and bronchi • Direct the critical care management of pre and post operative patients with diseases of the trachea and bronchi 	<ul style="list-style-type: none"> • Perform operative and non-operative management of patients with diseases of the trachea and bronchi • Perform bronchoscopy 	<ul style="list-style-type: none"> • Perform operative and non-operative management of diseases of the trachea and bronchi 	<ul style="list-style-type: none"> • Perform operative and non-operative management of patients with lung malignancy • Perform complex lung and pleural resection