

Topics on thoracic surgery for the students of medicine to prepare for the 4th-to-6th-year examinations (from the year 2017) with recommended study literature

1. Diagnostic investigations in thoracic surgery – risk factors of various diseases, symptomatology, physical investigations, radiological investigations (radiography, computed tomography, magnetic resonance tomography, positron emission tomography and scintigraphy), endoscopic and invasive diagnostic methods (transthoracic biopsy, surgical diagnostic methods).
2. Surgical access to the thoracic cavity – thoracoscopy, mediastinoscopy, thoracotomy, sternotomy. Surgical access in elective and emergency surgery.
3. Lung resections (wedge resection, segmentectomy, (bi)lobectomy, pneumonectomy, extended resections).
4. Thoracentesis and pleural drainage. Indications, contraindications, surgical technique and complications. Pleurodesis – indications, surgical technique and results.
5. Pneumothorax. Aetiology (primary, secondary spontaneous pneumothorax). Diagnostic methods, treatment strategy. Indications and technique of surgical treatment.
6. Pleural empyema – various causes, symptomatology, diagnostic methods and treatment strategy (indications for pleural drainage, intrapleural fibrinolytic therapy, thoracoscopy and thoracotomy; decortication, thoracoplasty, myoplasty and omentoplasty).
7. Lung cancer – symptomatology, diagnostic steps, indications and limits of surgical management. Preoperative investigations, evaluation of operability. TNM classification. Survival of patients according to the extent of the disease.
8. Solitary pulmonary nodule – definition, possible aetiology, differential diagnosis, criteria for observation of the patient.
9. Indications and limits of surgical treatment of lung metastases.
10. Oesophageal surgical diseases. Symptomatology and diagnostic methods of benign oesophageal diseases – oesophagoscopy, oesophagography. Indications of surgical treatment of oesophageal diverticula.
11. Iatrogenic oesophageal perforations. Causes of perforation, symptomatology, diagnostic methods and treatment.

Recommended literature in thoracic surgery for students

Lung Clinic homepage:

- <http://www.kliinikum.ee/kopsukliinik/oppematerjal>

Major Textbooks:

- ESTS Textbook of Thoracic Surgery. 2014
- General Thoracic Surgery. 7th edition. Edited by Thomas W. Shields. 2009

Pneumothorax:

- WI Choi. Pneumothorax. Review. Tuberc Respir Dis 2014;76:99-104.
<https://synapse.koreamed.org/Synapse/Data/PDFData/0003TRD/trd-76-99.pdf>
- MacDuff A et al. Management of spontaneous pneumothorax: British Thoracic Society pleural disease guideline 2010. Thorax 2010; 65(Suppl 2):ii18-ii31

Lung Cancer:

- Latimer KM et al. Lung Cancer: Diagnosis, Treatment Principles, and Screening.
<http://www.aafp.org/afp/2015/0215/p250.pdf>
- Medscape: <http://emedicine.medscape.com/article/279960-overview#a1>

Diagnostic investigations in thoracic surgery and pleural procedures:

- Pleural procedures and thoracic ultrasound: British Thoracic Society pleural disease guideline 2010 http://thorax.bmj.com/content/65/Suppl_2/i61.full.pdf+html
- deLeyn P, Lerut T. Conventional mediastinoscopy
(<http://mmcts.oxfordjournals.org/content/2005/0324/mmcts.2004.000158.full.pdf+html>)
- deLeyn P, Lerut T. Videomediastinoscopy
<http://mmcts.oxfordjournals.org/content/2005/0104/MMCTS.2004.000166.full.pdf>

Pleural empyema:

- Ahmed AEH, Yacoub TE. Empyema thoracis. Review. Circulatory, Respiratory and Pulmonary Medicine 2010;4 1–8
(<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2998927/pdf/ccrpm-2010-001.pdf>)
- Davies HE et al. Management of pleural infection in adults: British Thoracic Society pleural disease guideline 2010. Thorax 2010; 65: ii41-ii53
(http://thorax.bmj.com/content/65/Suppl_2/ii41.full.pdf+html)