



# ESTS SCHOOL

**ESTS  
SCHOOL OF  
THORACIC  
SURGERY**

## KNOWLEDGE TRACK COURSE

**16-21 March 2020**

**Lindner Hotel Prague Castle, Prague**



An application has been made to the EACCME® for CME accreditation of this event

**Course Organisers:**  
Hasan Batirel, Istanbul, Turkey  
ESTS Director of Education

Nuria Novoa, Salamanca, Spain  
Knowledge Track Coordinator

**INFORMATION & REGISTRATION: [www.ests.org](http://www.ests.org)**





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DAY 1: MONDAY 16 MARCH 2020

## MODULE 1: INTRODUCTION

- 13.30-14.00 h **Welcome, opening remarks, presentation round**  
H. Batirel
- 14.00-14.15 h **ESTS school**  
H. Batirel
- 14.15-14.30 h **The EBTS certification process**  
N. Novoa
- 14.30-15.30 h **Preoperative functional evaluation**
- 15.30-16.00 h Coffee break

## MODULE 2: PERI- AND POST-OPERATIVE MANAGEMENT

- 16.00-16.15 h **COPD management in the perioperative setting**
- 16.15-16.30 h **Chest tube management**
- 16.30-16.45 h **Anticoagulants, antiplatelet and stents**
- 16.45-17.00 h **Perioperative physiotherapy**
- 17.00-18.00 h **CASE DISCUSSION:  
Perioperative management**
- 18.30 h **Welcome reception at the hotel**
- 19.00 h **Interactive dinner - with case presentations from participants and discussion**

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## DAY 2: TUESDAY 17 MARCH 2020

### MODULE 3: WHAT TO DO WHEN THINGS GO WRONG?

8.30-8.50 h	<b>Management of prolonged air-leak</b>
8.50-9.10 h	<b>Management of postoperative empyema</b>
9.10-9.30 h	<b>Management of postoperative bleeding</b>
9.30-9.45 h	<b>Management of sternal dehiscence</b>
9.45-10.00 h	<b>Management of intense postoperative pain and consequences</b>
10.00-10.15 h	<b>Management of cardiac complications after surgery</b>
10.15-10.30 h	<b>Management of unusual lung complications after resection</b>
10.30-11:00 h	Coffee break
11.00-11.20 h	<b>Management of postoperative pneumonia, atelectasis and respiratory failure: from partial respiratory insufficiency to ARDS</b>
11.20-12.00 h	<b>CASE DISCUSSION on Postoperative Complications</b>
12.00-13.00 h	Lunch

### MODULE 4: INFECTIOUS DISEASES OF THE LUNG

13.00-13.15 h	<b>Hygiene protocols in the ward</b>
13.15-13.30 h	<b>Bronchiectasis</b>
13.30-13.45 h	<b>Cystic fibrosis</b>
13.45-14.00 h	<b>Hydatid disease</b>
14.00-14.20 h	<b>Aspergilloma and fungal diseases</b>
14.20-14.35 h	<b>Lung abscess and lung gangrene</b>
14.35-15.00 h	<b>TB and destroyed lung</b>
15.00-15.30 h	Coffee break

### MODULE 5: TRACHEA AND AIRWAYS

15.30-15.45 h	<b>Principles of tracheal surgery</b>
15:45-16.00 h	<b>Surgical treatment of tracheal inflammatory stenosis</b>
16.00-16.20 h	<b>Non-surgical treatment of tracheal stenosis: Stenting, T-Tubes</b>
16.20-16.30 h	<b>Tracheoesophageal fistula</b>
16.30-16.45 h	<b>Tracheostomy and mini-tracheostomy</b>
16.45-17.45 h	<b>WEBINAR: Airway tumors and their treatment</b>
19.00 h	<b>Dinner</b>



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## DAY 3: WEDNESDAY 18 MARCH 2020

### MODULE 6: LUNG CANCER- DIAGNOSIS AND STAGING

- 8.30-8.45 h **Incidence and screening of NSCLC**
- 8.45-9.00 h **Histologic classification (WHO) and TNM**
- 9.00-9.15 h **Surgical strategy for lung nodules and GGO staging**
- 9.15-9.30 h **Invasive mediastinal staging: when and how?**
- 9.30-10.30 h **Case discussion of NSCLC staging**
- 10.30-11.00 h Coffee break

### MODULE 7: LUNG CANCER: BASICS OF TREATMENT

- 11.00-11.15 h **Principles of surgery for lung cancer (anatomic resection, node dissection)**
- 11.15-11.30 h **Patient selection for VATS/uniportal major resection**
- 11.30-12.00 h **The perfect systematic lymphadenectomy (technique -video based)**
- 12.00-12.15 h **Pneumonectomy: operative risk and oncological benefit**
- 12.15-12.45 h **CASE DISCUSSION of NSCLC: resectability (radiology based)**
- 12.45-13.45 h Lunch

### MODULE 8: LUNG CANCER – ADVANCED DISEASE

- 13.45-14.30 h **Extended resections: indications and results in mediastinal invasion**
- indications and results in chest wall/ vertebral invasion**
- indications and results in airway invasion**
- 14.30-14.45 h **Combined modality strategies**
- 14.45-15.00 h **Target therapies and immunotherapy**

### MODULE 9: LUNG CANCER: DIFFICULT SCENARIOS

- 15.00-15.15 h **Multiple primaries: staging and treatment strategies**
- 15.15-15.30 h **Stage IV: Oligometastatic disease. Definitions and treatment**
- 15:30-15.45 **Lung metastases**
- 15.45-16.00 h Coffee break
- 16.00-17.00 **WEBINAR: parenchyma saving operations: sleeve lobectomy and sublobar resections (video based)**



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DAY 3: WEDNESDAY 18 MARCH 2020

## MODULE 10: RARE LUNG TUMORS

17.00-17.15 h **Neuroendocrine tumors**

17.15-17.45 h **Benign tumors of the lung**

17.45 h **Feedback day 3**

21.00 h **Oscar night - video presentations from participants with case discussions**

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## DAY 4: THURSDAY 19 MARCH 2020

### MODULE 11: CHEST WALL

- 8.30-8.50 h **Chest wall trauma**
- 8.50-9.10 h **Thoracic visceral injuries**
- 9.10-9.30 h **Tumors of the chest wall and their treatment**
- 9.30-9.45 h **Principles of chest wall reconstruction**
- 9.45-10.00 h **Congenital deformities of the chest wall**
- 10.00-10.15 h **Thoracic outlet syndrome**
- 10.15-10.30 h **CASE DISCUSSION on chest trauma (1)**
- 10.30-11.00 h **Coffee break**

### MODULE 12: DIAPHRAGM

- 11.00-11.15 h **Congenital defects**
- 11.15-11.30 h **Diaphragmatic eventration**
- 11.30-11.45 h **Traumatic rupture of the diaphragm**
- 11.45-12.00 h **CASE DISCUSSION on chest trauma (2)**

### MODULE 13: THYROID

- 12.00-12.15 h **Intrathoracic Goiter. Surgical treatment**
- 12.15-12.30 **Thyroid cancer**
- 12.30-13.30 h **Lunch**
- 13.30-16.00 h **SIMULATION time**  
All faculty members

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**DAY 5: FRIDAY 20 MARCH 2020**

**MODULE 14: PULMONARY INTERSTITIAL DISEASE**

8.30-8.45 h **Idiopathic pulmonary fibrosis**

8.45-9.00 h **Radiology of the interstitial lung disease**

**MODULE 15: PULMONARY HYPERTENSION**

9.00-9.15 h **Diagnosis and classification of pulmonary hypertension**

9.15-9.30 h **Medical and surgical treatment of pulmonary hypertension**

**MODULE 16: RESPIRATORY FAILURE**

9.30-9.45 h **Invasive management of emphysema**

9.45-10.00 h **Essentials of ECMO**

10.00-10.30 h **Coffee break**

10.30-11.30 h **WEBINAR. Essentials of lung transplantation**

**MODULE 17: ESOPHAGEAL DISEASES**

11.30-11.45 h **GERD, hernia and short esophagus**

11.45-12.00 h **Benign disorders: motility and diverticula**

12.00-12.15 h **Essentials of esophageal cancer including staging**

12.15-12.30 **Principles of surgical treatment in esophageal cancer**

12.30-13.30 h **Lunch**

**MODULE 18: PLEURA**

13.30-13.45 h **Pneumothorax: primary/secondary**

13.45-14.00 h **Catamenial pneumothorax**

14.00-14.15 h **Management of benign pleural effusion**

14.15-14.30 h **Management of malignant pleural effusion**

14.30-14.45 h **Management of residual pleural space**

14.45-15.00 h **Pleural tumours: mesothelioma**

15.00-15.15 h **Other pleural tumours**

15.15-15.45 h **Coffee break**

15.45-16.45 h **CASE DISCUSSION on pleural diseases**





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DAY 5: FRIDAY 20 MARCH 2020

## MODULE 19: PEDIATRIC THORACIC SURGERY

16.45-17.15 h **Embryology and congenital diseases of the lung: Brief summary and frequent cases**

17.15-18.00 h **CASE DISCUSSION on congenital diseases of the lung in adults or pediatric population**

18.00 h **Refection of the day**

19:00 h **Dinner**

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## DAY 6: SATURDAY 21 MARCH 2020

### MODULE 20: MEDIASTINUM TUMORS

8.30-8.45 h **Thymoma: WHO and Masaoka staging**

8.45-9.00 h **Principles of the surgical treatment of thymic tumors**

9.00-9.15 h **Perioperative management of Myasthenia Gravis**

9.15-9.30 h **Indications for upfront surgery vs multimodality treatment**

9.30-9.45 h **Extended resections**

9.45-10.00 h **Neurogenic tumors**

10.00-10.15 h **Hyperparathyroidism**

10.15-10.30 h **Germ cell tumors of the mediastinum**

10.30-11.00 h **Coffee break**

### MODULE 21: MEDIASTINUM- BENIGN CONDITIONS

11.00-11.15 h **Mediastinitis**

11.15-11.30 h **Esophageal leak and rupture**

11.30-11.45 h **Diagnosis and management of chylothorax**

11.45-12.00 h **Hyperhidrosis and the sympathetic chain**

12.00-13.00 h **Lunch**

13.00-13.30 h **Honorary lecture  
ESTS President Prof. Enrico Ruffini**

13.30-15.30 h **ESTS Grand Prix**  
All faculty/ Participants

15.30 h **Feedback and farewell**

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