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.estso.org
FACULTY

On site

Clemens Aigner, Essen, Germany
Hasan Batirel, Istanbul, Turkey
Gail Darling, Toronto, Canada
Gilbert Massard, Luxembourg, Luxembourg
  ESTS Past President
Nuria Novoa, Salamanca, Spain
Cecilia Pompili, Leeds, UK
Enrico Ruffini, ESTS President
Willem-Hans Steup, The Hague, Holland

Live webinar

Henning A. Gaissert, Boston, USA
Ilhan Inci, Zurich, Switzerland
Scott Swanson, Boston, USA
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  
C. Pompili

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  
C. Pompili

16.15-16.30 h  Chest tube management  
N. Novoa

16.30-16.45 h  Anticoagulants, antiplatelet and stents  
H. Batirel

16.45-17.00 h  Perioperative physiotherapy  
N. Novoa

17.00-18.00 h  CASE DISCUSSION: Perioperative management  
All Faculty

18.30 h  Welcome reception at the hotel

19.00 h  Interactive dinner - with case presentations from participants and discussion
MODULE 3: WHAT TO DO WHEN THINGS GO WRONG?

8.30-8.50 h  Management of prolonged air-leak
C. Pompili

8.50-9.10 h  Management of postoperative empyema
N. Novoa

9.10-9.30 h  Management of postoperative bleeding
H. Batirel

9.30-9.45 h  Management of sternal dehiscence
W.H. Steup

9.45-10.00 h  Management of intense postoperative pain and consequences
N. Novoa

10.00-10.15 h  Management of cardiac complications after surgery
C. Pompili

10.15-10.30 h  Management of unusual lung complications after resection
H. Batirel

10.30-11.00 h  Coffee break

11.00-11.20 h  Management of postoperative pneumonia, atelectasis and respiratory failure: from partial respiratory insufficiency to ARDS
C. Pompili

11.20-12.00 h  CASE DISCUSSION on Postoperative Complications
All Faculty

12.00-13.00 h  Lunch

MODULE 4: INFECTIOUS DISEASES OF THE LUNG

13.00-13.15 h  Hygiene protocols in the ward
N. Novoa

13.15-13.30 h  Bronchiectasis
C. Pompili

13.30-13.45 h  Cystic fibrosis
W.H. Steup

13.45-14.00 h  Hydatid disease
H. Batirel

14.00-14.20 h  Aspergilloma and fungal diseases
W.H. Steup

14.20-14.35 h  Lung abscess and lung gangrene
H. Batirel

14.35-15.00 h  TB and destroyed lung
C. Pompili

15.00-15.30 h  Coffee break

MODULE 5: TRACHEA AND AIRWAYS

15.30-15.45 h  Principles of tracheal surgery
C. Aigner

15.45-16.00 h  Surgical treatment of tracheal inflammatory stenosis
N. Novoa

16.00-16.20 h  Non-surgical treatment of tracheal stenosis: Stenting, T-Tubes
N. Novoa

16.20-16.30 h  Tracheoesophageal fistula
H. Batirel

16.30-16.45 h  Tracheostomy and mini-tracheostomy
C. Pompili

16.45-17.45 h  WEBINAR: Airway tumors and their treatment

19.00 h  Dinner
DAY 3: WEDNESDAY 18 MARCH 2020

MODULE 6: LUNG CANCER - DIAGNOSIS AND STAGING

8.30-8.45 h  Incidence and screening of NSCLC
              W.H. Steup

8.45-9.00 h   Histologic classification (WHO) and TNM
              C. Aigner

9.00-9.15 h   Surgical strategy for lung nodules and
              GGO staging
              H. Batirel

9.15-9.30 h   Invasive mediastinal staging: when and
              how?
              N. Novoa

9.30-10.30 h  Case discussion of NSCLC staging
              All faculty

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)
              W.H. Steup

11.15-11.30 h Patient selection for VATS/uniportal
              major resection
              H. Batirel

11.30-12.00 h The perfect systematic
              lymphadenectomy (technique -video based)
              C. Aigner

12.00-12.15 h Pneumonectomy: operative risk and
              oncological benefit
              N. Novoa

12.15-12.45 h CASE DISCUSSION of NSCLC:
              resectability (radiology based)
              All faculty

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
              N. Novoa

14.30-14.45 h Combined modality strategies
              W.H. Steup

14.45-15.00 h Target therapies and immunotherapy
              C. Aigner

MODULE 9: LUNG CANCER: DIFFICULT SCENARIOS

15.00-15.15 h Multiple primaries: staging and
              treatment strategies
              H. Batirel

15.15-15.30 h Stage IV: Oligometastatic disease.
              Definitions and treatment
              N. Novoa

15.30-15.45 h Lung metastases
              W.H. Steup

16.00-17.00 h WEBINAR: parenchyma saving
              operations: sleeve lobectomy
              and sublobar resections (video based)
              S. Swanson
## DAY 3: WEDNESDAY 18 MARCH 2020

### MODULE 10: RARE LUNG TUMORS

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.00-17.15 h</td>
<td>Neuroendocrine tumors</td>
<td>C. Aigner</td>
</tr>
<tr>
<td>17.15-17.45 h</td>
<td>Benign tumors of the lung</td>
<td>N. Novoa</td>
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<tr>
<td>17.45 h</td>
<td>Feedback day 3</td>
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<tr>
<td>19.00 h</td>
<td>Dinner</td>
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<tr>
<td>20.00 h</td>
<td>Oscar night - video presentations from participants with case discussions</td>
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# DAY 4: THURSDAY 19 MARCH 2020

## MODULE 11: CHEST WALL

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>8.30-8.50 h</td>
<td>Chest wall trauma</td>
<td>G. Massard</td>
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<tr>
<td>8.50-9.10 h</td>
<td>Thoracic visceral injuries</td>
<td>G. Massard</td>
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<tr>
<td>9.10-9.30 h</td>
<td>Tumors of the chest wall and their treatment</td>
<td>C. Aigner</td>
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<tr>
<td>9.30-9.45 h</td>
<td>Principles of chest wall reconstruction</td>
<td>G. Massard</td>
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<tr>
<td>9.45-10.00 h</td>
<td>Congenital deformities of the chest wall</td>
<td>N. Novoa</td>
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<tr>
<td>10.00-10.15 h</td>
<td>Thoracic outlet syndrome</td>
<td>C. Aigner</td>
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<tr>
<td>10.15-10.30 h</td>
<td>CASE DISCUSSION on chest trauma (1)</td>
<td>All faculty</td>
</tr>
<tr>
<td>10.30-11.00 h</td>
<td>Coffee break</td>
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## MODULE 12: DIAPHRAGM

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<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>11.00-11.15 h</td>
<td>Congenital defects</td>
<td>N. Novoa</td>
</tr>
<tr>
<td>11.15-11.30 h</td>
<td>Diaphragmatic eventration</td>
<td>H. Batirel</td>
</tr>
<tr>
<td>11.30-11.45 h</td>
<td>Traumatic rupture of the diaphragm</td>
<td>G. Darling</td>
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<tr>
<td>11.45-12.00 h</td>
<td>CASE DISCUSSION on chest trauma (2)</td>
<td>All faculty</td>
</tr>
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## MODULE 13: THYROID

<table>
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<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>12.00-12.15 h</td>
<td>Intrathoracic Goiter. Surgical treatment</td>
<td>N. Novoa</td>
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<tr>
<td>12.15-12.30</td>
<td>Thyroid cancer</td>
<td>G. Massard</td>
</tr>
<tr>
<td>12.30-13.30 h</td>
<td>Lunch</td>
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<tr>
<td>13.30-16.00 h</td>
<td>SIMULATION time</td>
<td>All faculty members</td>
</tr>
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MODULE 14: PULMONARY INTERSTITIAL DISEASE

8.30-8.45 h  
Idiopathic pulmonary fibrosis
N. Novoa

8.45-9.00 h  
Radiology of the interstitial lung disease
N. Novoa

MODULE 15: PULMONARY HYPERTENSION

9.00-9.15 h  
Diagnosis and classification of pulmonary hypertension
H. Batirel

9.15-9.30 h  
Medical and surgical treatment of pulmonary hypertension
G. Darling

MODULE 16: RESPIRATORY FAILURE

9.30-9.45 h  
Invasive management of emphysema
H. Batirel

9.45-10.00 h  
Essentials of ECMO
G. Massard

10.00-10.30 h  
Coffee break

10.30-11.30 h  
WEBINAR. Essentials of lung transplantation
Inci Ilhan

MODULE 17: ESOPHAGEAL DISEASES

11.30-11.45 h  
GERD, hernia and short esophagus
G. Darling

11.45-12.00 h  
Benign disorders: motility and diverticula
H. Batirel

12.00-12.15 h  
Essentials of esophageal cancer including staging
G. Darling

12.15-12.30 h  
Principles of surgical treatment in esophageal cancer
H. Batirel

12.30-13.30 h  
Lunch

MODULE 18: PLEURA

13.30-13.45 h  
Pneumothorax: primary/secondary
N. Novoa

13.45-14.00 h  
Catamenial pneumothorax
G. Darling

14.00-14.15 h  
Management of benign pleural effusion
H. Batirel

14.15-14.30 h  
Management of malignant pleural effusion
G. Darling

14.30-14.45 h  
Management of residual pleural space
N. Novoa

14.45-15.00 h  
Pleural tumours: mesothelioma
H. Batirel

15.00-15.15 h  
Other pleural tumours
G. Massard

15.15-15.45 h  
Coffee break

15.45-16.45 h  
CASE DISCUSSION on pleural diseases
All faculty
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
               N. Novoa

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

18.00 h        Reflection of the day

19:00 h        Dinner
DAY 6: SATURDAY 21 MARCH 2020

### MODULE 20: MEDIASTINUM TUMORS

- **8.30-8.45 h**  
  **Thymoma: WHO and Masaoka staging**  
  E. Ruffini

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

- **9.00-9.15 h**  
  **Perioperative management of Myasthenia Gravis**  
  N. Novoa

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

- **9.30-9.45 h**  
  **Extended resections**  
  E. Ruffini

- **9.45-10.00 h**  
  **Neurogenic tumors**  
  G. Darling

- **10.00-10.15 h**  
  **Hyperparathyroidism**  
  N. Novoa

- **10.15-10.30 h**  
  **Germ cell tumors of the mediastinum**  
  G. Darling

- **10.30-11.00 h**  
  **Coffee break**

### MODULE 21: MEDIASTINUM-BENIGN CONDITIONS

- **11.00-11.15 h**  
  **Mediastinitis**  
  H. Batirel

- **11.15-11.30 h**  
  **Esophageal leak and rupture**  
  G. Darling

- **11.30-11.45 h**  
  **Diagnosis and management of chylothorax**  
  N. Novoa

- **11.45-12.00 h**  
  **Hyperhidrosis and the sympathetic chain**  
  G. Darling

- **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**