

**ESTS School of Thoracic Surgery – Knowledge Track Course  
“Antalya Revisited in Prague”**

**13 – 18 March 2017  
Prague, Czech Republic**

**Organisers: Gilbert Massard, ESTS Director of Education  
Hasan Batirel, Knowledge Track Course Co-ordinator**

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

***Formats:***

- Case based teaching (CBT) = 1 case with 3-4 MCQ to discuss, followed by essentials/rules/guidelines
- Case discussion (CD): to show that different options are possible in absence of strict evidence
- Learn from peers (LFP): case presentation by junior, essential messages by faculty
- State of the art lecture (SOTA): overview on a specialized issue
- Essentials: focus on evidence, take home messages

***Faculty:***

- **Jalal Assouad**, Paris, France
- **Tim Batchelor**, Bristol, UK
- **Hasan Batirel**, Istanbul, Turkey. Knowledge Track Coordinator
- **Kirill Gestkov**, Moscow, Russian Federation
- **Jaroslav Kuzdzal**, Krakow, Poland. ESTS President
- **Gilbert Massard**, Strasbourg, France. ESTS Director of Education
- **Giovanni Battista Migliori**,  
Director WHO Collaborating Centre for TB and Lung Diseases, Tradate, Italy
- **Nuria Novoa**, Salamanca, Spain
- **Kostas Papagiannopoulos**, Leeds, UK. ESTS Treasurer, President Elect
- **Enrico Ruffini**, Torino, Italy

**Day 1 – Monday 13 March 2017**

**Module 1: Introduction**

- 13.30 Welcome, opening remarks, presentation round G Massard  
14.00 ESTS school, EBTS G Massard  
14.30 Case based: preoperative functional evaluation (CBT) G Massard, H Batirel  
  
15.30 – 16.00 Coffee break

**Module 2: Peri- and post-operative management**

- 16.00 Anaesthesia and peri-operative management of ventilation G Massard  
16.20 Chest tube management N Novoa  
16.40 Antibiotic and antithrombotic prophylaxis (CBT) E Ruffini  
17.00 Anticoagulants, antiplatelet and stents (CBT) G Massard  
17.20 Enhanced recovery after surgery J Assouad  
  
17.50 Feedback day 1  
18.30 Welcome drink + interactive dinner

Ugly case presentations between welcome drink and meal to break the ice!

**Day 2 – Tuesday 14 March 2017**

**Module 3: What to do when things go wrong?**

- 8.30 Diagnosis and treatment of pulmonary complications E Ruffini  
8.50 Case based: ARDS – indications for ECMO (CBT) J Assouad  
9.00 Bronchopleural fistula: case- based (CBT) K Gestkov  
9.10 Post-op empyema after pneumonectomy (CD) K Gestkov  
9.40 Management of prolonged air leak K Gestkov  
10.00 Esophageal leak Learn from peers  
  
10.25 Coffee break  
  
10.45 Recurrent laryngeal nerve injury (CBT) H Batirel  
11.05 Post-op bleeding J Assouad

**Module 4: Paediatric Thoracic Surgery**

- 11.25 Embryology & congenital diseases of the lung: H Batirel  
State-of-the-art lecture (SOTA)  
12.30 lunch

**Module 5: Infectious diseases of the lung**

- 13.30 Bronchiectasis G Massard  
13.50 Hydatid disease H Batirel  
14.10 Aspergilloma & fungal diseases G Massard  
14.30 Rare infections: atypical mycobacterial infections,  
lung abscess and gangrene (CBT) H Batirel  
15.00 Coffee break

**Module 6: TB and destroyed lung**

- 15.30 TB: Epidemiology-natural history-diagnosis-treatment (SOTA) G B Migliori  
16.15 TB: Indications for surgery: covers invasive diagnosis, MDR/XDR, destroyed lung,  
cavernous disease, tuberculoma, bilateral disease, massive hemoptysis with a  
clinical case for each scenario G Massard, H Batirel  
17.15 Feedback day 2

**Day 3 – Wednesday 15 March 2017**

**Module 7: Lung cancer – diagnosis and staging**

- 8.30 Epidemiology and screening G Massard  
9.00 Histologic classification (WHO) and TNM E Ruffini  
9.20 Diagnosis and staging N Novoa  
9.40 Invasive mediastinal staging: when and how N Novoa  
10.00 A patient with single station lymph node enlargement: case discussion  
(CD) N Novoa  
10.30 Coffee break

**Module 8: Lung cancer – basics of treatment**

- 11.00 Principles of surgery for lung cancer (anatomic resection, node dissection) J Assouad  
11.20 Parenchyma saving operations 1: sublobar resection (CBT) G Massard  
11.40 Parenchyma saving operations 2 : sleeve lobectomy (LFP) J Assouad  
12.00 Neuro-endocrine tumours J Assouad  
12.30 Lunch

**Module 9: Lung cancer – advanced disease**

13.30 Combined modality strategies	E Ruffini
14.00 Extended resections: indications and results	K Gestkov
14.30 Multiple primaries and oligometastatic cancer (CD)	H Batirel
15.00 Lung metastases	E Ruffini
15.30 Coffee break	

**Module 10: Lung cancer: rare tumours and future of surgery**

16.00 Rare tumours	E Ruffini
16.30 VATS and future directions: robotics, SBRT	G Massard

**Module 11: Lung cancer: back to real life !!**

16.50 Case based discussions - central cancer with marginal physiology - bilateral lesions	K Gestkov, G Massard, E Ruffini
17.30 Feedback	
21.00 Oscar night Surgical videos and Czech beer!!	

**Day 4 – Thursday 16 March 2017**

**Module 12: Mediastinum, anterior compartment**

8.30 Surgical anatomy of the mediastinum	N Novoa
8.50 Mediastinitis (CBT)	H Batirel
9.10 Thymoma: WHO and Masaoka stages	E Ruffini
9.30 Myasthenia gravis and other parathymic syndromes	E Ruffini
9.50 Germ cell tumours of the mediastinum (CBT)	G Massard
10.20 coffee break	

**Module 13: Mediastinum, middle and posterior compartments**

10.50 Mediastinal cysts	H Batirel
11.10 Diagnosis of mediastinal lymph node diseases (CBT)	K Papagiannopoulos
11.30 Diagnosis and management of chylothorax (CD)	N Novoa
12.00 Neurogenic tumours and sympathetic chain	N Novoa
12.30 Lunch	
Free afternoon	

**Day 5 – Friday 17 March 2017**

**Module 14: Diaphragm**

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|-------|--|-------------|
| 8.30  | Surgical anatomy of the diaphragm and congenital defects (CBT) | T Batchelor |
| 8.50  | Diaphragmatic eventration (CBT)                                | H Batirel   |
| 9.20  | Traumatic rupture of the diaphragm (LFP)                       | T Batchelor |
| 9.40  | Diaphragmatic pacing   | H Batirel   |
| 10.00 | Coffee break   |             |

**Module 15: Trachea and airways**

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|-------|--|--------------------|
| 10.30 | Surgical anatomy of major Airways                | K Papagiannopoulos |
| 10.50 | Principles of surgery and ventilation management | G Massard          |
| 11.10 | Tumours of trachea and large Airways             | G Massard          |
| 11.40 | Inflammatory stenosis of the trachea             | K Papagiannopoulos |
| 12.00 | Tracheo-esophageal fistula (CBT)                 | T Batchelor        |
| 12.20 | Palliative management                            | K Papagiannopoulos |
| 13.00 | Lunch  |                    |

**Module 16: Esophagus**

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|-------|--|-------------|
| 14.00 | Surgical anatomy of the esophagus                          | T Batchelor |
| 14.20 | GERD, hernia and short esophagus                           | H Batirel   |
| 14.40 | Benign disorders: motility, benign tumours                 | H Batirel   |
| 15.00 | Essentials of esophageal cancer including resection (SOTA) | H Batirel   |
| 15.45 | Esophageal disruption (CD)                                 | J Kuzdzal   |
| 16.15 | Coffee break   |             |

**Module 17: Pleura**

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|-------|--------------------------------|-------------|
| 16.45 | Pleural anatomy and physiology | T Batchelor |
| 17.00 | Pneumothorax                   | J Kuzdzal   |
| 17.20 | Pleural infections: essentials | T Batchelor |
| 17.40 | Pleural tumours                | H Batirel   |
| 18.00 | Reflection of the day          |             |

**Day 6 – Saturday 18 March 2017**

**Module 18: Chest wall**

8.30	Chest wall trauma	G Massard
8.50	Thoracic visceral injuries	K Papagiannopoulos
9.10	Tumours of the chest wall	K Papagiannopoulos
9.30	Principles of chest wall reconstruction	K Papagiannopoulos
9.50	Congenital deformities of the chest wall	K Papagiannopoulos
10.10	Thoracic outlet syndrome	J Kuzdzal
10.30	Coffee break	

**Module 19: Respiratory failure**

11.00	Essentials of lung transplantation (SOTA)	G Massard
11.50	Invasive management of emphysema	T Batchelor
12.10	Essentials of ECMO	T Batchelor
12.30	Lunch	

**Honorary Lecture – ESTS President**

13.30	Mobility during training: short lecture + discussion	J Kuzdzal
14.15	ESTS Grand Prix	All faculty/participants
15.45	Feedback and farewell	