



**Skills course**  
**Interventional bronchoscopy**  
**19-21 November 2024**  
**Heidelberg, Germany**

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**Tuesday, 19 November 2024**

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**Welcome and introduction**

- 08:30–09:00 Course registration  
09:00–09:05 Welcome and introduction - K. Kontogianni, F. Herth  
09:05–09:30 Introductory lecture - F. Herth

**Session 1 - Updates in IP (COPD and ILD)**

- 09:30–09:50 Endoscopic lung volume reduction (ELVR): Valves, Coils, AeriSeal, BTVA etc. - K. Klooster  
09:50–10:10 Interventional treatment of chronic bronchitis and exacerbations - K. Kontogianni  
10:10–10:30 Update on lung volume reduction surgery - F. Eichhorn  
10:30–10:40 Q&A - All faculty

10:40–11:10 *Coffee break*

**Session 2 - COPD, ILD and lung cancer**

- 11:10–11:30 Case 1 – ELVR board; obstruction and hyperinflation – K. Klooster, K. Kontogianni, F. Eichhorn, C. P. Heussel  
11:30–11:50 Case 2 – ELVR board; chronic bronchitis and exacerbations - K. Kontogianni, J. Brock, L. Klotz, C. P. Heussel  
11:50–12:10 Case 3 – ILD - board - S. Dittrich, V. Poletti, C. P. Heussel,  
12:10–12:30 Case 4 – Tumor board, peripheral node - F. Trudzinski, C. P. Heussel, L. Klotz  
12:30–12:40 Q&A - All faculty

12:40–13:40 *Lunch break*



### **Session 3 - The peripheral node**

- 13:40–14:00 Best approach to peripheral nodule diagnostics and treatment from radiologist perspective; photon counting CT, SBRT - C. P. Heussel
- 14:00–14:20 Best approach to peripheral nodule diagnostics from 'bronchologist' perspective, navigation - F. Herth
- 14:20–14:40 Robots in bronchoscopy - J. Brock
- 14:40–15:00 Best approach to peripheral nodule treatment from 'bronchologist' perspective, microwaves, RFA, vapor ablation – A. Bugalho
- 15:00–15:20 Best approach to peripheral nodule diagnostics and treatment from surgeons' perspective – L. Klotz
- 15:20–15:40 Q&A - All faculty
- 15:40–16:00 *Coffee break*

### **Session 4 - The central lesion**

- 16:00–16:20 Ultrasound guided pleural interventions – N. Rahman
- 16:20–16:40 Recanalization 'hot and cold' techniques – F. Herth
- 16:40–17:00 Update linear EUS(B) technique, performance, complications - J. Annema
- 17:00–17:20 Medical thoracoscopy – N. Rahman
- 17:20–17:30 Q&A - All faculty



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## Wednesday, 20 November 2024

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### **Session 5 - Live cases and patient handling: Live demo 1**

- 08:45–08:50 Live demo 1 - F. Herth, A. Bugalho  
08:50–09:20 Pre-procedure - S. Dittrich  
09:20–09:30 Procedure - F. Herth, A. Bugalho  
09:30–09:50 Discussion and feedback - K. Kontogianni  
Preparation of the patient – J. Brock

### **Session 5 - Live cases and patient handling: Live demo 2**

- 09:50–09:55 Live demo 2 - K. Kontogianni, J. Annema  
09:55–10:20 Pre-procedure - S. Dittrich  
10:20–10:30 Procedure - K. Kontogianni, J. Annema  
10:30–10:50 Discussion and feedback - J. Brock  
Sedation in bronchoscopy - M. Scheiner

10:50–11:30 *Coffee break*

### **Session 6 - More IP updates and live cases**

- 11:30–11:50 Update on stents – F. Herth  
11:50–12:10 Invasive procedures for patients with ILD, cryobiopsy – V. Poletti  
12:10–12:30 Update on BAL - F. Trudzinski  
12:30–12:50 Update on radial EBUS – J. Annema  
12:50–13:00 ROSE and histopathology in IP – V. Poletti  
13:00–13:20 Q&A - All faculty

13:20–14:20 *Lunch break*



### **Session 6 - More IP Updates and Live cases: Live demo 3**

Live demo 3 - F. Herth, V. Poletti

14:20–14:25

Pre-procedure - S. Dittrich

14:25–14:50

Procedure - F. Herth, V. Poletti

14:50–15:00

Discussion and feedback – K. Kontogianni

### **Session 7 – New techniques and instruments in use and IP future**

15:00–15:20

EBUS cryobiopsy of mediastinal and hilar lymph nodes - K. Kontogianni

15:20–15:40

Building up an endoscopy service – A. Bugalho

15:40–16:00

Single use bronchoscopes – K. Kontogianni

16:00–16:20

Innovations in interventional pulmonology: pushing boundaries - F. Herth

16:20–16:30

Q&A - All faculty



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## Thursday, 21 November 2024

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### Session 8 - Workshops

#### GROUP A

WS1 – F. Herth and local faculty

- a. Airway stents
- b. Augmented reality in supporting successful inhalation therapy

WS2 – Lung volume reduction – K. Klooster and local faculty

#### GROUP B

WS3 – E(B)US handling – J. Brock and local faculty

WS4 – Flexible and rigid bronchoscopy, single-use bronchoscopes and semirigid thoracoscopy – S. Dittrich and local faculty

#### GROUP C

WS5 – Rigid bronchoscopy, APC and bleeding management – K. Kontogianni and local faculty

WS6 – Cryo-biopsy and Cryo-TBNA – V. Poletti and local faculty

09:00–09:45 Round 1

09:45–09:55 Rotation

09:55–10:40 Round 2

10:40–10:50 Rotation

10:50–11:35 Round 3

11:35–11:45 Rotation

11:45–12:30 Round 4

12:30–13:00 ***Lunch break***

13:00–13:45 Round 5

13:45–13:55 Rotation

13:55–14:40 Round 6