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# MARCH 24

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## VIDEO-ASSISTED THORACIC SURGERY - VATS AND RATS

7:45 am ○ REGISTRATION AND WELCOMING OF PARTICIPANTS

8:05 am ○ OPTIONS B AND C

### **THEORETICAL SESSION**

#### Current and forthcoming technologies for advanced thoracoscopic procedures

- > Electromagnetic bronchial navigation for surgeons
- > Current instrumentation and imaging systems
- > Forthcoming instrumentation and imaging systems
- > Preoperative modeling: applications for major pulmonary resections

#### Current and forthcoming technologies for robotically assisted procedures

#### Different approaches: Pro and Cons

- > Single port thoracoscopic approach
- > Multiport anterior thoracoscopic approach
- > Multiport thoracoscopic posterior approach
- > Subxiphoid thoracoscopic approach
- > Alternate and less usual approaches
- > Robotically assisted approach

#### Postoperative management at the time of minimally invasive techniques

- > Chest tube management
- > RAAC for VATS and RATS
- > Pain management: Open vs. VATS vs. RATS

1:00 pm ○ LUNCH AT THE INSTITUTE

2:00 pm ○ OPTIONS B AND C

### **VIDEO SESSION**

#### Tips and tricks

- > Exposure
- > Vascular control
- > Fissure and parenchymal division

3:00 pm ○ OPTIONS B AND C

### **PRACTICAL SESSION - TRAINING ON LIVE TISSUE (MINI-PIGS)**

#### VATS procedures

- > Fissure completion
- > Incision and opening of the mediastinal pleura overlying the left lung hilum
- > Dissection of the common pulmonary vein and cranial lobar vein
- > Division of the cranial lobar vein with linear autostaplers or vessel-sealing devices
- > Dissection and division of the cranial lobar bronchus with linear autostaplers
- > Dissection of the pulmonary arteries one by one and dividing them with linear autostaplers or vessel-sealing devices
- > Left caudal lobectomy

6:30 pm ○ END OF SESSION

EVENING FREE

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# MARCH 25

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## VIDEO-ASSISTED THORACIC SURGERY - VATS AND RATS

7:45 am ○ EVALUATION OF THE PREVIOUS DAY

8:00 am ○ OPTIONS B AND C

### LECTURE

Introduction to sublobar resections

8:30 am ○ OPTIONS B AND C

### VIDEO SESSION

VATS and RATS lobectomies

Main technical steps and tricks with different standpoints

- > Lower / right upper / left upper / middle lobectomies
- > Two “easy” segmentectomies: Lingulectomy, S6
- > Complex segmentectomies
- > Lymph node dissection

12:00 pm ○ LUNCH AT THE INSTITUTE

1:00 pm ○ OPTIONS B AND C

### VIDEO SESSION

VATS and RATS lobectomies

Main technical steps and tricks with different standpoints

- > Thoracoscopic left approach
- > Thoracoscopic bilateral approach
- > Thoracoscopic subxiphoid approach
- > Robotic approach

2:00 pm ○ PRACTICAL SESSION

OPTION B

### TRAINING ON LIVE TISSUE (MINI-PIGS)

VATS procedures

- > Fissure completion
- > Incision and opening of the mediastinal pleura overlying the left lung hilum
- > Dissection of the common pulmonary vein and cranial lobar vein
- > Division of the cranial lobar vein with linear autostaplers or vessel-sealing devices
- > Dissection and division of the cranial lobar bronchus with linear autostaplers
- > Dissection of the pulmonary arteries one by one and dividing them with linear autostaplers or vessel-sealing devices
- > Left caudal lobectomy

OPTION C

### TRAINING ON LIVE TISSUE (MINI-PIGS) AND SIMULATORS

RATS procedures

Development of technical skills in RATS: from basic skills and procedural skills using virtual simulation to live models with LUL and lymphadenectomy in pig models

5:30 pm ○ END OF SESSION

8:00 pm ○ DINNER IN HONOR OF PARTICIPANTS

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# MARCH 26

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VIDEO-ASSISTED THORACIC SURGERY - VATS AND RATS

8:15 am ◦ EVALUATION OF THE PREVIOUS DAY

8:30 am ◦ OPTIONS B AND C

**THEORETICAL SESSION**

Advanced techniques and technologies

- > Training on animal model
- > Training on cadaver model
- > Simulation for the VATS surgeon
- > Preventing and simulating complications (conference)

Troubleshooting complications in VATS and RATS surgery:  
description, management and prevention

- > Lessons learned from a European survey
- > My complications: how many? What did occur?  
How did I manage it? Which lesson learnt?

12:00 pm ◦ LUNCH AT THE INSTITUTE

END OF COURSE

DELIVERY OF THE CERTIFICATES OF ATTENDANCE