



## VIDEO-ASSISTED THORACIC SURGERY VATS & RATS

ADVANCED COURSE

March 16-18

COURSE DIRECTORS

**J.M. Baste** (FR)

**P.E. Falcoz** (FR)

**A. Seguin** (FR)

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: pros and cons

- Single port thoracoscopic approach
- Multiport anterior thoracoscopic approach
- Multiport thoracoscopic posterior approach
- Subxiphoid thoracoscopic approach
- Alternative and unusual 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

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 THE PARTICIPANTS

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 happened?  
How did I manage? Which lessons did I learn?

12:00 pm — LUNCH AT THE INSTITUTE

END OF COURSE

DELIVERY OF THE CERTIFICATES OF ATTENDANCE