**INTERVENTIONAL BRONCHOSCOPY MASTERCLASS**

**05 AUG - 07 AUG 2024**

**CONVENOR**  Rajesh Thomas

**INTERNATIONAL GUEST**  Felix Herth (Heidelberg, Germany)

**NATIONAL FACULTY**  David Fielding (QLD)

David Manners (WA)

Dhaval Thakkar (WA/USA)

Jonathan Williamson (NSW)

Lokesh Yagnik (WA)

Marcus Schmidt (WA)

Ming Chai (WA)

Nai Chien Huan (Malaysia)

Niranjan Setty (WA)

Phan Nguyen (SA)

Siobhan Dormer (WA)

Sue Morey (WA)

Taha Husseini (WA)

**PROGRAM OVERVIEW**

**Day 1** – Linear EBUS

**Day 2** – Radial EBUS

**Day 3** – Rigid bronchoscopy and interventional techniques

**Day 1 Program**

**Linear EBUS + Introduction to Radial EBUS**

**Lectures –**

1. Welcome and introduction – Rajesh Thomas

2. Why learn linear EBUS – Felix Herth

3. Principles and interpretation of ultrasound in linear and radial EBUS – Dhaval Thakkar

4. Anatomy of the mediastinum and central tracheo-bronchial tree – Jonathan Williamson

5. Linear EBUS TBNA step-by-step - How I do it – David Manners

6. Linear EBUS TBNA – Tips and tricks – David Fielding

7. Optimizing cytopathology yield – Ming Chair

8. Interesting case studies – All faculty

9. Interactive discussions – All faculty

**Hands-on stations – 7 stations (for 28 participants – 4/station) – 25 minutes/station**

1. EBUS – Knobology + How to set up (Linear and radial EBUS)

2. Linear EBUS - Navigation + Anatomy + TBNA - Specific tasks – Anatomical gel model

3. Linear EBUS - Navigation + Anatomy + TBNA - Specific tasks - Anatomical gel model

4. Linear EBUS Simulator

5. Linear EBUS - Navigation + Anatomy + TBNA - Specific tasks – Cadaver model

6. Linear EBUS – EUS-B and Cryo-TBNB – Cadaver model

7. Cyto-pathology - Tissue handling/processing + ROSE

8. Prosection (x 1 all day station)

**Day 2 Program**

**Radial EBUS + Introduction to Rigid Bronchoscopy**

**Lectures –**

1. Why learn radial EBUS and navigational techniques – Felix Herth

2. Anatomy of bronchial tree branching for radial EBUS – David Fielding

3. Mapping of peripheral airways and navigation to target lesion – Part 1 – Phan Nguyen

4. Mapping of peripheral airways and navigation to target lesion – Part 2 – David Manners

5. Radial EBUS and guide sheath technique step-by-step – How I do it – Lokesh Yagnik

6. Airway emergency - Management of airway bleeding – Niranjan Setty

7. Sedation, anaesthesia, oxygenation and after-care for EBUS/rigid bronchoscopy – Marcus Schmidt

8. Interesting case studies – All faculty

9. Interactive discussions – All faculty

**Hands-on stations – 7 stations (for 28 participants – 4/station) – 25 minutes/station**

1. CT planning and mapping

2. CT planning and mapping

3. CT planning and mapping

4. Archimedes – Navigation planning and mapping

5. Radial EBUS – Navigation + Anatomy – Specific task - Anatomical gel model

6. 5. Radial EBUS – Navigation + Anatomy – Specific task - Anatomical gel model

7. Radial EBUS - Navigation + Anatomy + GS + TBLB - Specific task – Cadaver model

8. Radial EBUS - Navigation + Anatomy + GS + TBNA cryo-TBLB (with fluoroscopy) – Cadaver model

9. Linear EBUS simulator – EBUS-STAT testing – All day station

10. Prosection (x 1 all day station)

**Day 3 Program**

**Rigid Bronchoscopy, Stenting, and Advanced Interventional Techniques**

**Lectures –**

1. Introduction to rigid bronchoscopy - Why, When (When not), How - Lokesh Yagnik

2. Airway stents -Why, When (When not), How Jonathan Williamson

3. Bronchoscopic Lung Volume Reduction - Why, When (When not), How - Phan Nguyen

4. Lung cryobiopsy - Why, When (When not), How – Felix Herth

5. Risk assessment, safety, and prevention/management of complications in interventional bronchoscopy practice – Dhaval Thakkar

8. Interesting case studies – All faculty

9. Interactive discussions – All faculty

**Hands-on stations – 7 stations (for 28 participants – 4/station) – 30 minutes/station**

1. Rigid bronchoscopy – Setting up rigid bronchoscopy equipment + intubation – AirSim

2. Rigid bronchoscopy - Intubation + biopsy + FB removal using rigid forceps - Cadaver

3. Rigid bronchoscopy + SEMS - Deploying and removing SEMS – Cadaver

4. Rigid bronchoscopy + Silicone stent – Deploying and removing silicone stents – Cadaver

5. Lung Cryo-biopsy – Cadaver

6. Airway emergencies (Bleeding/FB/Tumour) – Lung explant model

7. Endobronchial Valves - High fidelity model

8. Linear EBUS simulator – EBUS-STAT testing – All day station

9. Prosection (x 1 all day station)