Introduction to Bronchoscopy and Pulmonary Procedures Course
June 28, 2019

Course Agenda

Morning Location:
Longwood Hall
Inn at Longwood Medical
342 Longwood Avenue
Boston, Massachusetts 02215

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>07:00 am – 07:30 am</td>
<td>Registration and Breakfast</td>
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<tr>
<td>07:30 am – 07:40 am</td>
<td>Introduction</td>
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<tr>
<td></td>
<td>Mihir Parikh MD</td>
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<tr>
<td>07:40 am – 08:00 am</td>
<td>Bronchoscopy Past, Present and Future</td>
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<td></td>
<td>Erik Folch MD</td>
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<tr>
<td>08:00 am – 08:30 am</td>
<td>Airway, Mediastinal and Pleural Anatomy</td>
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<td></td>
<td>Alex Chee MD</td>
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<tr>
<td>08:30 am – 09:00 am</td>
<td>Bronchoscopy: Type, Indications and Contraindications</td>
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<td></td>
<td>Adnan Majid MD</td>
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<tr>
<td>09:00 am – 09:30 am</td>
<td>Bronchial washings, bronchoalveolar lavage and bronchial brushing</td>
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<td>Carla Lamb MD</td>
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<tr>
<td>09:30 am – 10:15 am</td>
<td>Break</td>
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<tr>
<td>10:15 am – 10:30 am</td>
<td>Transbronchial needle aspiration, transbronchial and endobronchial biopsy</td>
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<td>Marianne Barry MD</td>
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<tr>
<td>10:30 am – 11:00 am</td>
<td>Ultrasound basics and Ultrasound-guided thoracentesis</td>
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<td>Paulo Oliveira MD</td>
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<tr>
<td>11:00 am – 11:30 am</td>
<td>Pleural catheters</td>
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<td>Colleen Keyes MD</td>
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<tr>
<td>11:30 am – 01:00 pm</td>
<td>Lunch and Educational Exhibits</td>
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Afternoon Location:
Carl J Shapiro Simulation and Skills Center
Shapiro Clinical Building, Rm G20
330 Brookline Avenue
Beth Israel Deaconess Medical Center
Boston, Massachusetts 02215

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>01:00 pm – 05:00 pm</td>
<td>Hands on Stations in Shapiro Simulation Center</td>
</tr>
<tr>
<td>05:00 pm – 07:00 pm</td>
<td>Course Reception on Shapiro Building 10th Floor</td>
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</table>
# Introduction to Bronchoscopy and Pulmonary Procedures Course

**June 28, 2019**

## Hands-On Stations

<table>
<thead>
<tr>
<th>Station 1</th>
<th>Airway anatomy</th>
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<tbody>
<tr>
<td><strong>Goals</strong></td>
<td>Understand normal airway anatomy using simulation bronchoscopy</td>
</tr>
<tr>
<td><strong>Faculty</strong></td>
<td>Maureen Dziura MD, Danai Khemasuwan MD, Carla Lamb MD</td>
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<thead>
<tr>
<th>Station 2</th>
<th>Percutaneous Chest Tubes</th>
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<tbody>
<tr>
<td><strong>Goals</strong></td>
<td>Recognize anatomical landmarks; review technique for percutaneous chest tube placement; understand management of three chamber pleural drainage system</td>
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<tr>
<td><strong>Faculty</strong></td>
<td>Suliman Alamro MD, Adnan Majid MD</td>
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<tr>
<th>Station 3</th>
<th>Ultrasound-guided Thoracentesis</th>
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<tbody>
<tr>
<td><strong>Goals</strong></td>
<td>Recognize normal US anatomy (lung, diaphragm, liver, and spleen); review technique for US guided thoracentesis; review technique for measurement of pleural manometry</td>
</tr>
<tr>
<td><strong>Faculty</strong></td>
<td>Paulo Oliveira MD, Alichia Paton ACNP-BP, Frank Schembri MD</td>
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<tr>
<th>Station 4</th>
<th>Vascular Ultrasound and Central Venous Catheters</th>
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<tbody>
<tr>
<td><strong>Goals</strong></td>
<td>Recognize relevant US anatomy; review technique for US guided placement of central venous catheters; understand relative risks and benefits for subclavian, internal jugular, and femoral venous access</td>
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<tr>
<td><strong>Faculty</strong></td>
<td>Simon Ash MD, Molly Hayes MD, Rebecca Sternschein MD</td>
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<tr>
<th>Station 5</th>
<th>Difficult Airway Management</th>
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<tr>
<td><strong>Goals</strong></td>
<td>Understand airway assessment; review basic pharmacology for general anesthesia and conscious sedation; review technique for direct laryngoscopy, awake fiberoptic endotracheal intubation, and cricothyrotomy; review difficult airway algorithm and rescue maneuvers</td>
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<tr>
<td><strong>Faculty</strong></td>
<td>Colleen Keyes MD, Haobo Ma MD, Catherine Oberg MD</td>
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<tr>
<th>Station 6</th>
<th>Transbronchial Needle Aspiration and Management of Hemoptysis</th>
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<tr>
<td><strong>Goals</strong></td>
<td>Recognize anatomical landmarks of major mediastinal and hilar lymph node stations; review technique for transbronchial needle aspiration; understand initial approach to management of massive hemoptysis</td>
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<tr>
<td><strong>Faculty</strong></td>
<td>Alex Chee MD, Alex Rabin MD</td>
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<th>Station 7</th>
<th>Foreign Body Removal</th>
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<tr>
<td><strong>Goals</strong></td>
<td>Recognize patients at risk for foreign body aspiration; identify available tools frequently used for endoscopic removal of aspirated foreign body</td>
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<tr>
<td><strong>Faculty</strong></td>
<td>Jason Beattie MD, Erik Folch MD, Anil Trindade MD</td>
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June 28, 2019

Course Faculty

Course Director:

Mihir Parikh MD
Interventional Pulmonology
Beth Israel Deaconess Medical Center
Instructor in Medicine
Harvard Medical School

Course Co-Directors:

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Associate Professor of Medicine
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Course Coordinator:

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Introduction to Bronchoscopy and Pulmonary Procedures Course
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Instructor in Anesthesiology
Harvard Medical School

Catherine Oberg MD
Interventional Pulmonology
Beth Israel Deaconess Medical Center
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Director, Interventional Pulmonary Procedures 
Medical Director, Respiratory Care 
UMass Memorial Medical Center 
Associate Professor 
University of Massachusetts Medical School

Alichia Paton ACNP-BC  
Interventional Pulmonology 
Beth Israel Deaconess Medical Center

Alex Rabin MD  
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Frank Schembri MD  
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Assistant Professor of Medicine 
Boston University School of Medicine

Rebecca Sternschein MD  
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Brigham and Women’s Hospital

Anil Trindade MD  
Pulmonary and Critical Care Medicine 
Brigham and Women’s Hospital 
Instructor in Medicine 
Harvard Medical School

This course has been endorsed by :
Introduction to Bronchoscopy and Pulmonary Procedures Course
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This course has been sponsored by educational grants from:

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Cook Medical
Olympus America
Pfizer

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Veracyte
Vida Diagnostics