DIVISION OF PULMONARY & CRITICAL CARE MEDICINE

presents

INTERVENTIONAL PULMONOLOGY

“Thirty-Five Years of Excellence in Training and Education”

Advanced Diagnostic and Therapeutic Bronchoscopy
Medical Thoracoscopy
Percutaneous Tracheostomy

Featuring:
Lung Screening Implementation; Augmented Reality Simulation;
Inaugural JF Beamis Honor Lecture

Course Recognition by the American College of Surgery as a Center of Excellence in Simulation

April 10 – 14, 2018
Burlington, Massachusetts
Program Overview and Course Objectives

This post-graduate course is designed for experienced thoracic endoscopists and will cover indications, contraindications, and clinical applications of various procedures in the field of interventional pulmonology including: rigid bronchoscopy, laser bronchoscopy, endobronchial stent insertion, transbronchial needle aspiration, percutaneous dilatational tracheostomy, cryotherapy, electrocautery, photodynamic therapy and medical thoracoscopy. Lung cancer detection with endobronchial ultrasound will also be addressed. Newer bronchoscopic therapies for emphysema and asthma and newer diagnostic methods for sampling nodules will also be discussed. Course format will include lectures, discussion sessions, video instruction and hands-on laboratory sessions. The goal of the course is to acquaint the attendee with the above procedures and the equipment required to perform the procedures.

By the conclusion of this activity attendees should be able to:

1. Identify the indications and contraindications and proper technique of applications of the above procedures.
2. Discuss the basic principles of laser application, electrocautery and cryotherapy.
3. Describe the physiology of central airway obstruction and how it can be modified by various endoscopic therapies.
4. Define the role of TBNA, EBUS, and fluorescence bronchoscopy in the diagnosis and staging of lung cancer.
5. Describe the pleural anatomy and the indications and contraindications of medical thoracoscopy.
6. Explain the indications and technique of percutaneous dilatational tracheostomy.
7. Define management strategy for hemoptysis.
8. Understand the updated lung cancer screening guidelines and implementation of a screening center.
10. Identify molecular markers for lung cancer.
11. Identify the bronchoscopic and minimally invasive surgical management of lung nodules.

Course Information
Lahey Hospital & Medical Center, Office of Continuing Medical Education 781.744.8056. https://cmetracker.net/LAHEY/Catalog

This activity has been designed to address the ACGME/ABMS “Medical Knowledge” and “Patient Care” competencies.

Accreditation
Lahey Clinic is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit Designation
The Lahey Clinic designates this live activity for a maximum of 33.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This course is endorsed by the American Association for Bronchology and Interventional Pulmonology.
Lahey Hospital & Medical Center Faculty

Ghazwan Acash, MD  
Interventional Pulmonology Staff Physician  
Division of Pulmonary and Critical Care Medicine  
Asst. Professor of Medicine, Tufts Univ. School of Medicine  

John F. Beamis, MD  
Founder of Lahey Interventional Pulmonary Program, Santa Barbara, California  

John M. Dugan, MD  
Department of Pathology  
Clinical Assistant Professor of Anatomic and Clinical Pathology,  
Tufts Univ. School of Medicine  

Anthony Gray, Jr., MD  
Division of Pulmonary and Critical Care Medicine  
Assistant Professor of Medicine, Tufts Univ. School of Medicine  

Paul Hesketh, MD  
Department of Hematology and Oncology  
Professor of Medicine, Tufts University School of Medicine  

Carla Lamb, MD  
Division of Pulmonary and Critical Care Medicine  
Director of Interventional Pulmonology and Bronchoscopy  
Director of Interventional Pulmonary Fellowship  
Assistant Professor of Medicine, Tufts University School of Medicine  

Rahul Sood, MD  
Interventional Pulmonary Fellow  

Fares Mouchantaf, MD  
Interventional Pulmonary  
Division of Pulmonary and Critical Care Medicine  

Elliot Servais, MD  
Department of Cardiovascular and Thoracic Surgery  
Clinical Assistant Professor of Surgery, Tufts University School of Medicine  

Sara Shadchehr, DO  
Interventional Pulmonary Staff Physician  
Division of Pulmonary and Critical Care Medicine  
Assistant Professor of Medicine, Tufts Univ. School of Medicine  

Andrew Villanueva, MD  
Chief Quality Officer  
Division of Pulmonary and Critical Care Medicine  
Clinical Assistant Professor of Medicine, Tufts University School of Medicine  

Lahey Hospital & Medical Center Faculty

Laboratory Faculty

Edward Boroda, MHA  
Business Operations Manager  

David Boule  
Senior Simulation Technology Specialist  

Darlene J. Bourgeois MSN, RN  
Director for Education and Operations, Professional Development and Simulation  

Phil Codyer  

Robert Gaetani  
Senior Research Associate  

Rahul Shah, MD  
Director, Interventional Pulmonology  

Cathy O’Rourke  
Simulation Tech. Specialist  

Joan Gabriel, RN  
Jen Keating, RN  
Chanthorn Mahoney, Bronch Tech  

Natalie Melendez  
Mark Ready, Bronch Tech  
Donna Reilly, RN  
Kim Scroxton  
CME Program Manager  
Carla Walecka SCT (ASCP) LAC  

Guest Faculty

Christine Argento, MD  
Interventional Pulmonology  
Northwestern University, Chicago, Illinois  

Colleen Channick, MD  
Director of Interventional Pulmonology  
Massachusetts General Hospital, Boston, Massachusetts  

Alex Chen, MD  
Director, Interventional Pulmonology  
Washington University, St. Louis, Missouri  

David Feller-Kopman, MD  
Director, Bronchoscopy & Interventional Pulmonology  
Johns Hopkins Hospital, Baltimore, Maryland  

Anne V Gonzalez MD, MSc  
Division of Respiratory Medicine, McGill University Health Centre  

Pyng Lee MD, PhD FRCP (UK), FCCP  
Director of Interventional Pulmonology  
Associate Professor, National University Hospital, Singapore  

Adnan Majid, MD, FCCP.  
Chief, Section of Interventional Pulmonology,  
Director, Combined Harvard Interventional Pulmonology Fellowship Program,  
Division of Thoracic Surgery and Interventional Pulmonology,  
Beth Israel Deaconess Medical Center,  
Associate Professor of Medicine, Harvard Medical School  

Atul Mehta, MBBS, BS  
Physician, Respiratory Institute  
Professor of Medicine  
Editor in Chief, Journal of Bronchology  
Cleveland Clinic, Cleveland, Ohio  

David Ost, MD, M.P.H.  
Director, Interventional Pulmonology  
MD Anderson Cancer Center, Houston, TX  

R. Wesley Shepherd, MD  
Pulmonary and Critical Care Medicine  
Director of Interventional Pulmonology  
VCU Health Systems, Medical College of Virginia, Richmond, Virginia  

Samira Shojaee, MD, MPH  
Pulmonary and Critical Care Medicine  
Director of Interventional Pulmonology  
VCU Health Systems, Medical College of Virginia  
Richmond, Virginia  

Momen Wahidi, MD, MBA  
Director, Interventional Pulmonology  
Duke University Medical Center, Durham, North Carolina  

Kazuhiro Yasufuku, MD  
Department of Thoracic Surgery  
Toronto General Hospital  
University Health Network, Toronto, Canada
### Tuesday, April 10, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 – 8 a.m.</td>
<td>Registration and Continental Breakfast</td>
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<tr>
<td>8 – 8:15 a.m.</td>
<td>Welcome and Introduction to Interventional Pulmonology Course 35th Year</td>
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<tr>
<td></td>
<td>Carla Lamb, MD, Course Director/Moderator</td>
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<tr>
<td>8:15 – 9:30 a.m.</td>
<td>Lung Cancer Screening: Optimizing your program</td>
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<td>Carla Lamb</td>
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<tr>
<td>9:30 – 10 a.m.</td>
<td>Management of the Pulmonary Nodule</td>
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<td></td>
<td>Christine Argento, MD, DO</td>
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<tr>
<td>10 – 10:30 a.m.</td>
<td>Navigation Bronchoscopy and Radial EBUS</td>
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<tr>
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<td>Alex Chen, MD</td>
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<tr>
<td>10:30 – 10:45 a.m.</td>
<td>BREAK</td>
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<tr>
<td><strong>LUNG CANCER STAGING</strong></td>
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<tr>
<td>10:45 – 11:15 a.m.</td>
<td>Review of Lung Cancer Staging 8th edition</td>
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<tr>
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<td>Anne Gonzalez, MD</td>
</tr>
<tr>
<td>11:15 a.m. – Noon</td>
<td>EBUS- Anatomy of the Mediastinum and Case Review</td>
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<tr>
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<td>Kazuhiro Yasufuku, MD</td>
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<tr>
<td>Noon – 12:45 p.m.</td>
<td>LUNCH</td>
</tr>
<tr>
<td>12:45 – 1:30 p.m.</td>
<td>Innovations in Robotic Surgery: Minimally Invasive Surgical Resection for Lung Cancer</td>
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<tr>
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<td>Elliot Servais, MD</td>
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<tr>
<td>1:30 – 1:45 p.m.</td>
<td>BREAK</td>
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<tr>
<td>1:45 – 4:30 p.m.</td>
<td>Laboratory Sessions I and II will include rotation through the following:</td>
</tr>
<tr>
<td></td>
<td>• EBUS – Linear and Radial / TBNA</td>
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<td></td>
<td>• Pathology</td>
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<tr>
<td></td>
<td>• Navigation Bronchoscopy</td>
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<tr>
<td>1:45 – 2:30 p.m.</td>
<td>Lab Session I</td>
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<tr>
<td>2:45 – 3:30 p.m.</td>
<td>Lab Session II</td>
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<tr>
<td>3:45 – 4:30 p.m.</td>
<td>Lab Session III</td>
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</tbody>
</table>

### Wednesday, April 11, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>8:30 – 9 a.m.</td>
<td>Registration and Continental Breakfast</td>
</tr>
<tr>
<td>9 – 9:05 a.m.</td>
<td>Welcome</td>
</tr>
<tr>
<td></td>
<td>Carla Lamb, MD, Course Director/Moderator</td>
</tr>
<tr>
<td><strong>PLEURAL DISEASE</strong></td>
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<tr>
<td>9:05 – 9:30 a.m.</td>
<td>Approach to Malignant Pleural Effusion with Focus on Indwelling Tunnel Catheters</td>
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<td>Sara Shadchehr, DO</td>
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<tr>
<td>9:30 – 10 a.m.</td>
<td>Medical Pleuroscopy</td>
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<td>Pyng Lee, MD</td>
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<tr>
<td>10 – 10:30 a.m.</td>
<td>Management of Empyema</td>
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<td></td>
<td>David Feller-Kopman, MD</td>
</tr>
<tr>
<td>10:30 – 10:45 a.m.</td>
<td>BREAK</td>
</tr>
<tr>
<td><strong>LUNG CANCER STAGING AND SCREENING</strong></td>
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</tr>
<tr>
<td>10:45 – 11:30 a.m.</td>
<td>Cytology: A Review and Role of Tumor Marker Analysis</td>
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<td>Paul Hesketh, MD</td>
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<tr>
<td>11:30 a.m. – 12:30 p.m.</td>
<td>EBUS- Anatomy of the Mediastinum and Lung Cancer Staging with Case Studies</td>
</tr>
<tr>
<td></td>
<td>Kazuhiro Yasufuku, MD</td>
</tr>
<tr>
<td>12:30 – 1 p.m.</td>
<td>LUNCH</td>
</tr>
<tr>
<td><strong>BENIGN AIRWAY DISEASE</strong></td>
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<tr>
<td>1 – 1:30 p.m.</td>
<td>Percutaneous Tracheostomy and Tracheostomy Management</td>
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<td>Anthony Gray, MD</td>
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<tr>
<td>1:30 – 2 p.m.</td>
<td>Diagnosis and Management of Tracheal Diseases</td>
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<td></td>
<td>Carla Lamb, MD</td>
</tr>
<tr>
<td>2 – 2:30 p.m.</td>
<td>Strategic Management of Hemoptysis: A Review</td>
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<td>Semira Shojaee, MD</td>
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<tr>
<td>2:30 – 2:45 p.m.</td>
<td>BREAK</td>
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<tr>
<td>2:30 – 4:30 p.m.</td>
<td>Laboratory Sessions I and II will include rotation through the following:</td>
</tr>
<tr>
<td></td>
<td>• EBUS – Linear and Radial / TBNA</td>
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<tr>
<td></td>
<td>• Hemoptysis</td>
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<tr>
<td>2:30 – 3:30 p.m.</td>
<td>Lab Session I</td>
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<tr>
<td>3:45 – 4:45 p.m.</td>
<td>Lab Session II</td>
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</tbody>
</table>

### Location/Accommodations

All lectures and laboratory sessions will be held at the Lahey Hospital & Medical Center, 41 Mall Road, Burlington, Massachusetts. A block of hotel rooms has been held at the Burlington Marriott Hotel, which is within walking distance to Lahey Hospital & Medical Center. The hotel also provides a shuttle to and from Lahey Hospital & Medical Center. Rooms will be held in the block until March 14, 2017, after which time reservations will be accepted on a space available basis. Reservations may be made by calling Marriott Hotel Central Reservations at 800.228.9290. For other questions, please call the Burlington Marriott directly at 781.229.6565. Please indicate that you are attending the Lahey Hospital & Medical Center Interventional Pulmonology Conference. You may also contact our travel agency, Great International Travel at 800.643.4300 for information on other local accommodations.
Thursday, April 12, 2018 – Didactic

7 a.m. – 9 a.m.  Registration and Continental Breakfast

Diagnostic and Therapeutic Bronchoscopy
Moderator: Anthony Gray, MD

7:30 – 8 a.m.  Rigid Bronchoscopy/Silicone Stents
Ghazwan Acash, MD

8 – 8:30 a.m.  Metallic and Hybrid Stents
R. Wesley Shepherd, MD

8:30 – 9 a.m.  Foreign Body Removal: Flexible and Rigid Bronchoscopic Approaches
Atul Mehta, MD, MBBS

9 – 9:15 a.m.  BREAK

9:15 – 9:45 a.m.  Narrow Band Imaging, Alveoloscopy, Optical Coherence Tomography
Pyng Lee, MD

9:45 – 10:15 a.m.  “Cold” Therapies (Cryotherapy and Balloons)
Colleen Channick, MD

10:15 – 10:45 a.m.  “Hot” Therapies (APC, Electrocautery and Laser)
Anne Gonzalez, MD

10:45 – 11 a.m.  BREAK

11 – 11:30 a.m.  Endobronchial Lung Volume Reduction and Bronchial Thermoplasty
David Ost, MD, MPH

11:30 a.m. – 12:30 p.m.  Interventional Pulmonology: Year in Review
David Feller-Kopman, MD

12:30 – 1:30 p.m.  LUNCH

1:30 – 5 p.m.  Laboratory Sessions I – III will include rotation through the following:
• Meet the Professor / Augmented Reality Simulation Experience
• Rigid Bronchoscopy/Foreign Body Removal
• Valves/Thermoplasty

1:30 – 2:30 p.m.  Lab Session I

2:45 – 3:45 p.m.  Lab Session II

4 – 5 p.m.  Lab Session III

Friday, April 13, 2018

7 – 7:30 a.m.  Registration and Continental Breakfast
Moderator: Carla Lamb, MD

7:30 – 8:45 a.m.  Medical Grand Rounds – JF Beamis Honor Lecture
The History and Innovations of Interventional Pulmonary
John Beamis, MD and Carla Lamb, MD

8:45 – 9:15 a.m.  The Business of Interventional Pulmonology
Momen Wahidi, MD, MBA

9:15 – 10:15 a.m.  Round Table Discussion: Interesting Cases and Questions
Carla Lamb, MD, Moderator
Gaetane Michaud, MD, David Ost, MD, Atul Mehta, MD, MBBS, Adnan Majid MD, and Momen Wahidi, MD

10:15 – 10:30 a.m.  Group Photo and Break

10:30 a.m. – 4 p.m.  Laboratory Sessions I – IV will include rotation through the following:
• Cryotherapy/Argon Plasma Coagulator
• Laser Bronchoscopy
• Electrocautery
• Percutaneous Tracheostomy

10:30 – 11:30 a.m.  Lab Session I

11:30 a.m. – 12:30 p.m.  Lunch

12:30 – 1:30 p.m.  Lab Session II

1:45 – 2:45 p.m.  Lab Session III

3 – 4 p.m.  Lab Session IV

Saturday, April 14, 2018

7:30 – 8 a.m.  Registration and Continental Breakfast

8 a.m. – Noon  Laboratory Sessions I and II will include rotation through the following:
• Thoracoscopic Trainer/Thoracoscopy with Flexirigid Scope/Indwelling Pleural Catheter
• Stents

8 – 10 a.m.  Lab Session I

10 a.m. – Noon  Lab Session II

Directions to Lahey Hospital & Medical Center, 41 Mall Road, Burlington, MA

From Logan Airport: Follow signs for I-93 North. Take I-93 North to Exit 37B-Route 128/I-95 South. Follow directions below.

From the South: Take Route 128/I95 North to Exit 33B. Turn right on Cambridge Street and take the first left on to Mall Road. Lahey Hospital & Medical Center’s main entrance is one half mile on the left.

From the North: Take Route 128/I95 South to Exit 33B. Exit on to Mall Road. Lahey Hospital & Medical Center is one half mile on the left.
Registration
Interventional Pulmonology
April 10–14 2018

To register: https://cmetracker.net/LAHEY/Catalog

Space is limited; register early to secure your attendance.
A confirmation will be sent after receipt of payment and registration.

Registration Fee – check off registration fee

☐ $2350 — Full Session
  Didactic and Labs (limited to 36 participants)
  Includes: didactic and laboratory sessions, course syllabus, 4 continental breakfasts, 3 luncheons, all break refreshments, and 1 reception/dinner.
  Registrations for the full course will be accepted on a first come, first served basis with payment by credit card.

☐ $1450 — 2 Day Didactic and Lab Sessions (April 10 & 11, 2018)
  Includes: 2 day didactic and laboratory sessions, course syllabus, 2 continental breakfasts, 2 luncheons and break refreshments.

☐ $800 — Didactic Session and Hands on Tuesday only (April 10, 2018)
  Includes: course syllabus, didactic sessions, hands on Tuesday, 1 continental breakfast, lunch, and break refreshments. Opportunity to earn Certificate of Accomplishment in EBUS TBNA in addition to CME credits.

☐ $685 — 2 Day Didactic Session ONLY (No laboratory sessions included)
  Includes: course syllabus, didactic sessions, 2 continental breakfasts, 2 lunches, break refreshments, and 1 reception/dinner.

Reception/Dinner for registrants and faculty

Thursday, April 12, 2018
Bamboo Restaurant Bedford, MA
(Transportation will be provided.)
☐ Will Attend
☐ Will Not Attend

Please type or print all information.

Name ________________________________________________
Home Address _______________________________________
City__________________________ State______ Zip Code__________
Telephone __________________________ Fax ______________________
Email address (required) ____________________________________

Please check if you have any special assistance needs or dietary restrictions and notify us at least two weeks prior to the course. Indicate your needs here: ____________________________________________________________

Cancellations must be received by March 1, 2018. After this date, a refund will not be guaranteed unless a replacement is found. There will be a $200 fee for all cancellations prior to March 1, 2018.

Fill out below for charge information:

☐ Mastercard  ☐ VISA  ☐ American Express  ☐ Discover

Name as it appears on credit card ________________________________________________________________
Account # ___________________________ Expiration Date________________
Amount to be charged __________________________ Signature __________________________

☐ Please check if you have any special assistance needs or dietary restrictions and notify us at least two weeks prior to the course. Indicate your needs here: ____________________________________________________________