DIVISION OF PULMONARY & CRITICAL CARE MEDICINE

presents

INTERVENTIONAL PULMONOLOGY

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

Advanced Diagnostic and Therapeutic Bronchoscopy
Medical Thoracoscopy
Percutaneous Tracheostomy

Featuring:
Lung Screening Implementation & Optimization; Augmented Reality Simulation;
JF Beamis Interventional Pulmonary Honor Lecture

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

April 10 – 13, 2019
Burlington, Massachusetts
Program Overview & 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, argon plasma coagulation, 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
9. Understand the 8th edition of lung cancer diagnosis and staging
10. Identify molecular markers for lung cancer.
11. Identify the bronchoscopic and minimally invasive robotic surgical management of lung nodules.
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 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

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

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

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

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

Dhaval Thakkar, MD
Interventional Pulmonary Fellow
Division of Pulmonary and Critical Care Medicine

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
Senior Research Associate

Roberta Delrosso, RN

Craig Estes
Simulation Tech. Specialist

Joan Gabriel, RN

Jen Keating, RN

Chanthorn Mahoney, Bronch Tech

Natalie Melendez

Mark Ready, Bronch Tech

Donna Reilly, RN

Kinjal Shah

Diane Viscione, RN

Kim Scroxton
CME Program Manager

Guest Faculty

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

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
Director of Interventional Pulmonology & Bronchoscopy
McGill University Health Centre

Colleen Keyes, MD
Interventional Pulmonology
Massachusetts General Hospital, Boston, MA

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 Fellowship Program
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
### Wednesday, April 10, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>8:30 a.m.</td>
<td>Registration and Continental Breakfast</td>
</tr>
<tr>
<td>9 a.m.</td>
<td>Welcome and Introduction to Interventional Pulmonology Course/Quiz</td>
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<tr>
<td></td>
<td><em>Carla Lamb, MD, Course Director/Moderator</em></td>
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**PLEURAL DISEASE**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>9:05 a.m.</td>
<td>Approach to Benign and Malignant Pleural Effusion with Focus on Indwelling Tunnel Catheters</td>
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<tr>
<td></td>
<td><em>Sara Shadchehr, DO</em></td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td>Medical Pleuroscopy</td>
</tr>
<tr>
<td></td>
<td><em>David Ost, MD</em></td>
</tr>
<tr>
<td>10 a.m.</td>
<td>Management of Empyema</td>
</tr>
<tr>
<td></td>
<td><em>Fares Mouchantaf, MD</em></td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td>BREAK</td>
</tr>
</tbody>
</table>

**LUNG CANCER SCREENING & STAGING**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>10:45 a.m.</td>
<td>Lung Cancer Screening and Diagnosis: Optimization</td>
</tr>
<tr>
<td></td>
<td><em>Carla Lamb, MD</em></td>
</tr>
<tr>
<td>11:30 a.m.</td>
<td>EBUS- Anatomy of the Mediastinum and Lung Cancer Staging 8th Edition with Case Studies</td>
</tr>
<tr>
<td></td>
<td><em>Kazuhiro Yasufuku, MD</em></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>12:30 p.m.</td>
<td>LUNCH</td>
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</tbody>
</table>

**BENIGN AIRWAY DISEASE**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>1 p.m.</td>
<td>Percutaneous Tracheostomy and Tracheostomy Management</td>
</tr>
<tr>
<td></td>
<td><em>Anthony Gray, MD</em></td>
</tr>
<tr>
<td>1:30 p.m.</td>
<td>Diagnosis and Management of Tracheal Diseases</td>
</tr>
<tr>
<td></td>
<td><em>Carla Lamb, MD</em></td>
</tr>
<tr>
<td>2 p.m.</td>
<td>Strategic Management of Hemoptysis: A Review</td>
</tr>
<tr>
<td></td>
<td><em>Semira Shojaee, MD</em></td>
</tr>
<tr>
<td>2:30 – 5:45 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>
</tr>
<tr>
<td></td>
<td>• Pathology</td>
</tr>
<tr>
<td></td>
<td>• Hemoptysis</td>
</tr>
<tr>
<td></td>
<td>• Simulators</td>
</tr>
<tr>
<td>2:30 – 3:30 p.m.</td>
<td>Lab Session I</td>
</tr>
<tr>
<td>3:45 – 4:45 p.m.</td>
<td>Lab Session II</td>
</tr>
<tr>
<td>4:45 – 5:45 p.m.</td>
<td>EBUS Testing</td>
</tr>
</tbody>
</table>

### Thursday, April 11, 2019 – Didactic

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 a.m.</td>
<td>Registration and Continental Breakfast</td>
</tr>
</tbody>
</table>

**DIAGNOSTIC & THERAPEUTIC BRONCHOSCOPY**

*Moderator: Sara Shadchehr, D.O.*

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>7:30 a.m.</td>
<td>Rigid Bronchoscopy/Silicone Stents</td>
</tr>
<tr>
<td></td>
<td><em>Ghazwan Acash, MD</em></td>
</tr>
<tr>
<td>8 a.m.</td>
<td>Metallic and Hybrid Stents</td>
</tr>
<tr>
<td></td>
<td><em>R. Wesley Shepherd, MD</em></td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>Foreign Body Removal: Flexible and Rigid Bronchoscopic Approaches</td>
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<tr>
<td></td>
<td><em>Atul Mehta, MD, M.B.B.S.</em></td>
</tr>
<tr>
<td>9 a.m.</td>
<td>BREAK</td>
</tr>
<tr>
<td>9:15 a.m.</td>
<td>Navigational and Robotic Bronchoscopy and, Radial Ebus</td>
</tr>
<tr>
<td></td>
<td><em>Alex Chen, MD</em></td>
</tr>
<tr>
<td>10 a.m.</td>
<td>“Cold” Therapies (Cryotherapy and Balloons)</td>
</tr>
<tr>
<td></td>
<td><em>Christine Argento, MD</em></td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td>“Hot” Therapies (APC, Electrocautery and Laser)</td>
</tr>
<tr>
<td></td>
<td><em>Anne Gonzalez, MD</em></td>
</tr>
<tr>
<td>11 a.m.</td>
<td>BREAK</td>
</tr>
<tr>
<td>11:15 a.m.</td>
<td>Endobronchial Lung Volume Reduction and Bronchial Thermoplasty</td>
</tr>
<tr>
<td></td>
<td><em>Colleen Keyes, MD</em></td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td>LUNCH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 – 5:30 p.m.</td>
<td>Laboratory Sessions I – III will include rotation through the following:</td>
</tr>
<tr>
<td></td>
<td>• Navigational Bronchoscopy</td>
</tr>
<tr>
<td></td>
<td>• Rigid Bronchoscopy/Foreign Body Removal</td>
</tr>
<tr>
<td></td>
<td>• Valves/Thermoplasty/Simulators</td>
</tr>
<tr>
<td>1:30 – 2:30 p.m.</td>
<td>Lab Session I</td>
</tr>
<tr>
<td>2:45 – 3:45 p.m.</td>
<td>Lab Session II</td>
</tr>
<tr>
<td>4 – 5 p.m.</td>
<td>Lab Session III</td>
</tr>
<tr>
<td>5 – 5:30 p.m.</td>
<td>EBUS Testing</td>
</tr>
</tbody>
</table>
Friday, April 12, 2019

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

7:30 a.m. Medical Grand Rounds
           JF Beamis Interventional Pulmonary
           Honor Lecture

7:30 a.m. Interventional Pulmonology:
           Year In Review
           David Feller-Kopman, MD

8:45 a.m. The Business of Interventional
           Pulmonology
           Momen Wahidi, MD, M.B.A

9:15 a.m. Innovations and Minimally Invasive
           Thoracic Surgery
           Elliot Servais, MD
           Director of Robotic Surgery

10:15 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. Lab Session II

12:30 – 1:30 p.m. LUNCH

1:45 – 2:45 p.m. Lab Session III

3 – 4 p.m. Lab Session IV

Saturday, April 13, 2019

7:30 a.m.    Registration and Continental Breakfast

8 a.m. – 1 p.m. Laboratory Sessions I and II will include
                rotation through the following:
                • Thoracoscopy Trainer/Thoracoscopy
                  with Flexirigid Scope/Indwelling
                  Pleural Catheter
                • Stents
                • Augmented Reality
                  Simulation/Robotics

8 – 10:30 a.m. Lab Session I

10:30 a.m. – 1 p.m. Lab Session II

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, 2019, 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.

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 10–13 2019

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

☐ $2400 — 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, 2019)
   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, 2019)
   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

Cancellations must be received by March 1, 2019. 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, 2019.

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: ____________________________________________