Endoscopic Surgery of the Sinuses, Eustachian Tube, and Ear

Course Directors: Ralph Metson, MD and Dennis Poe, MD
Co-Directors: Stacey Gray, MD, Eric Holbrook, MD, Daniel Lee, MD

New 3-Day Course
March 23 – 25, 2015
Massachusetts Eye & Ear Infirmary | Boston, MA

Endoscopic Surgery of the Sinuses, Eustachian Tube, and Ear
Boston, MA | March 23–25, 2015

Day 1: Advanced Sinus Techniques
Day 2: Advanced Eustachian Tube Surgery
Day 3: Endoscopic Ear Surgery

Course videos can be previewed at www.SinusVideos.com

Enrollment Limited to 150
Lab sessions Limited to 32 on day 2
Limited to 26 on day 3

Faculty

Course Directors
Ralph Metson, MD
Director Rhinology Fellowship Program
Clinical Professor
Department of Otology & Laryngology
Harvard Medical School

Dennis Poe, MD PhD
Director of Otology & Neurotology
Boston Children’s Hospital
Associate Professor
Department of Otology & Laryngology
Harvard Medical School

Course Co-Directors
Stacey T. Gray, MD
Director, Sinus Center
Massachusetts Eye & Ear Infirmary
Assistant Professor
Department of Otology & Laryngology
Harvard Medical School

Eric Holbrook, MD
Chief, Division of Rhinology
Massachusetts Eye & Ear Infirmary
Assistant Professor
Department of Otology & Laryngology
Harvard Medical School

Daniel J. Lee, MD
Director, Pediatric Ear, Hearing and Balance Center
Massachusetts Eye and Ear Infirmary
Associate Professor
Department of Otology and Laryngology
Harvard Medical School

Invited Guest Faculty
Vijay K. Anand, MD
Clinical Professor of Otorhinolaryngology
Weill Medical College of Cornell University
Co-Director, Institute for Minimally Invasive Skull Base and Pituitary Surgery
New York Presbytarian Hospital

Rakesh Chandra, MD
Chief, Rhinology, sinus & Skull Base Surgery
Vanderbilt University Department of Otolaryngology
Nashville, TN

Daniele Marchioni, MD
Department of ENT
University of Modena
Modena, Italy

Juan Flavio Nogueira, MD
Assistant Professor
Universidade Estadual do Ceará
Department of Otolaryngology
Ceará, Brazil

David Pothier, MBChB MSc FRCS
Assistant Professor
Department of Otolaryngology
University of Toronto
Toronto General Hospital, Canada

Zachary M. Soler, MD, MSc
Assistant Professor
Division of Rhinology and Sinus Surgery
Medical University of South Carolina
Charleston, SC

Additional Harvard Faculty
Benjamin Bleier, MD
Assistant Professor, Department of Otology and Laryngology, Harvard Medical School
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</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>7:00</td>
<td>Registration and Continental Breakfast</td>
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<td>8:00</td>
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<td>Welcome: Dennis Poe, MD</td>
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<td>8:10</td>
<td>Updates in anatomy and physiology of the Eustachian tube (Poe)</td>
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<td>Sinus Surgery in 2015: Update on the latest technologies</td>
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<td>Diagnosis and management of Eustachian tube dysfunction (Poe)</td>
<td>8:30</td>
<td>Endoscopic middle ear anatomy (Nogueira)</td>
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<td>8:30</td>
<td>Surgery for nasal poly: Maximizing results (Chandra)</td>
<td>9:00</td>
<td>Evolution in diagnosis and measurements of Eustachian tube dysfunction (Anand)</td>
<td>9:00</td>
<td>Endoscopic approach to cholesteatoma (Marchioni)</td>
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<td>Mastering the frontal sinus: Balloons to drillout (Hollbrook)</td>
<td>9:30</td>
<td>Balloon dilation of the Eustachian tube (Poe)</td>
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<td>Introducing EES into your surgical practice (Pothier)</td>
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<td>9:30</td>
<td>Avoiding complications in sinus surgery (Gray)</td>
<td>10:00</td>
<td>Coffee Break</td>
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<td>10:00</td>
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<td>Eustachian tuboplasty: A rhinologist’s perspective (Metson)</td>
<td>10:10</td>
<td>Dissection Laboratory IIA - Endoscopic Ear Surgery: Basic Techniques (Registered Participants Only)</td>
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<td>10:30</td>
<td>Endoscopic septoplasty: A new twist on an old procedure (Bleier)</td>
<td>10:30</td>
<td>Endoscopic arthroscopic drilling of the Eustachian tube (Poe)</td>
<td>11:00</td>
<td>Endoscopic transcranial tympanotomy (Registered Participants Only)</td>
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<td>11:00</td>
<td>Clearing the field: Optimizing hemostasis during ESS (Soler)</td>
<td>11:00</td>
<td>Endoscopic surgical dissection of Eustachian tube: Early and delayed results</td>
<td>11:00</td>
<td>Endoscopic identification of middle ear anatomy (Registered Participants Only)</td>
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<td>11:30</td>
<td>Endoscopic repair of CSF leaks and encephaloceles (Chandra)</td>
<td>11:30</td>
<td>Management of the patulous Eustachian tube (Poe)</td>
<td>11:30</td>
<td>Endoscopic medial graft tympanoplasty (Registered Participants Only)</td>
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<td>12:00</td>
<td>Endoscopic DCR for lacrimal obstruction (Mettson)</td>
<td>12:00</td>
<td>Lunch Break</td>
<td>12:00</td>
<td>Endoscopic canalplasty and atticootomy</td>
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<tr>
<td>12:00</td>
<td>Lunch Break</td>
<td><strong>Day 3</strong></td>
<td><strong>Endoscopic Ear Surgery</strong></td>
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</tr>
<tr>
<td>1:30</td>
<td>Endoscopic pituitary surgery (Soler)</td>
<td><strong>Course Overview</strong></td>
<td><strong>Endoscopic Ear Surgery</strong></td>
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<td>2:00</td>
<td>Balloon dilation of the sinuses: Patient selection and clinical outcomes (Mettson)</td>
<td><strong>With recent advances in endoscopic treatment of disorders of the sinuses, Eustachian tube, and ear, it is imperative that otolaryngologists are up to date on the latest surgical techniques. The first day of this course will highlight rhinologic topics, including surgery of the skull base, frontal sinus, and orbit. The second day will focus on treatment of Eustachian tube dysfunction. Balloon dilation techniques of the sinuses and Eustachian tube will be discussed and demonstrated. The third day will be dedicated to cutting-edge technologies for endoscopic ear surgery. Learning formats will include lectures, panel discussions, and hands-on dissection laboratory of fresh cadaver specimens by limited subscription.</strong></td>
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<td>Endoscopic approach to skull base neoplasm: Lessons learned (Anand)</td>
<td><strong>Objectives</strong></td>
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<td>3:00</td>
<td>Endoscopic orbital decompression (Mettson)</td>
<td><strong>At the conclusion of this course, participants will be able to:</strong></td>
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<tr>
<td>3:30</td>
<td>Coffee Break</td>
<td>• Utilize a team-based approach to treat patients with disorders of the pituitary and skull base</td>
<td>• Integrate current methods for the diagnosis and treatment of patients with Eustachian T ube Disorders</td>
<td>• Describe the role of endoscopic ear surgery in the management of chronic otitis media with effusion</td>
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<td>4:00</td>
<td>Panel discussion and case presentations</td>
<td>• Orbital complications during sinus surgery</td>
<td>• Frontal sinus drillout</td>
<td>• Utilize the latest surgical techniques for the treatment of patients with chronic sinusitis and otitis media</td>
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<td>6:00</td>
<td>Dinner at the Harvard Faculty Club, Harvard Square, Cambridge, MA</td>
<td>• Management of frontal sinus mucoceles</td>
<td>• Endoscopic arterial ligation</td>
<td>• Endoscopic arthroscopic drilling of the Eustachian tube</td>
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<td>6:30</td>
<td>Adjournment</td>
<td>• Fungal disease and recurrence syndromes</td>
<td>• Endoscopic DCR/orbital decompression</td>
<td>• Endoscopic repair of patulous Eustachian tube</td>
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**ACGME Competencies**

This course is designed to meet the following ACGME competencies: • Patient care • Medical knowledge

**Course Fees**

Tuition Fee: Lectures Only (Monday, Tuesday, Wednesday): $850 (USD), Lectures + Dissection Lab I (Tuesday Sinus + ET Lab): $1,850 (USD), Lectures + Dissection Lab II (Wednesday Ear Lab): $1,950 (USD), Lectures + Dissection Lab I + Dissection Lab II (5 Days): $2,950 (USD). Registration by credit card (VISA, MasterCard or American Express) can be made at: [www.cme.hms.harvard.edu/courses/endoscopic](http://www.cme.hms.harvard.edu/courses/endoscopic).

**Accreditation**

The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Harvard Medical School designates this live activity for a maximum of 21.50 AMA PRA Category 1 Credits™. This course is designed to meet the following Accreditation Council of Graduate Medical Education (ACGME) competencies: • Patient care • Medical knowledge

**Disclosure Policy**

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**Course Location**

All sessions for this course will be held at: Massachusetts Eye and Ear Infirmary, 243 Charles Street, Boston, Massachusetts 02114 (Telephone: 617-523-7900).

Thank you. We hope to see you there!
### Day 1: Advanced Sinus Techniques

**Monday, March 23rd**

- **7:00** Registration and Continental Breakfast
- **8:00** Course Overview: Ralph Metson, MD
- **8:05** Welcome: Brad Welling, MD, Chairman, Department of Otolaryngology
- **8:10** Sinus Surgery in 2015: Update on the latest technologies
- **8:30** Surgery for nasal polyposis: Maximizing results (Chandra)
- **9:00** Mastering the frontal sinus: Balloons to drillout (Holbrook)
- **9:30** Avoiding complications in sinus surgery (Gray)
- **10:00** Coffee Break
- **10:30** Endoscopic septoplasty: A new twist on an old procedure (Bleier)
- **11:00** Clearing the field: Optimizing hemostasis during ESS (Soler)
- **11:30** Endoscopic repair of CSF leaks and encephaloceles (Chandra)
- **12:00** Endoscopic DCR for lacrimal obstruction (Morton)
- **12:30** Lunch Break
- **1:30** Endoscopic pituitary surgery (Soler)
- **2:00** Balloon dilation of the sinuses: Patient selection and clinical outcomes (Morton)
- **2:30** Endoscopic orbital decompression (Morton)
- **3:00** Coffee Break
- **3:30** Dissection Laboratory I - Sinus and Eustachian Tube Techniques
- **4:00** Panel discussion and case presentations
  - Orbital complications during sinus surgery
  - Management of frontal sinus mucoceles
  - Fungal disease and recurrent sinuses
  - Inverted papilloma: Endoscopic vs. external approach
- **6:00** Reception and Cocktails
- **7:00** Dinner at the Harvard Faculty Club, Harvard Square, Cambridge, MA

### Day 2: Eustachian Tube Surgery

**Tuesday, March 24th**

- **7:00** Registration and Continental Breakfast
- **8:00** Welcome: Dennis Poe, MD
- **8:10** Updates in anatomy and physiology of the Eustachian tube (Poe)
- **8:30** Diagnosis and management of Eustachian tube dysfunction (Poe)
- **9:00** Evolution in diagnosis and measurements of Eustachian tube dysfunction (Anand)
- **9:30** Balloon dilation of the Eustachian tube (Poe)
- **10:00** Coffee Break
- **10:30** Eustachian tuboplasty: A rhinologist’s perspective (Metson)
- **11:00** Endoscopic surgical dilation of Eustachian tube: Early and delayed results (Anand)
- **11:30** Management of the patulous Eustachian tube (Poe)
- **12:00** Lunch Break
- **12:30** Dissection Laboratory IIA - Sinus and Eustachian Tube Techniques
- **1:30** Functional minimally invasive approach for excision of cholesteatoma (Poe)
- **2:00** Selective dysentisment of the middle ear (Marchioni)
- **2:30** Taking EES into the future (Nogueira)
- **3:00** Coffee Break
- **3:30** Dissection Laboratory IIB - Endoscopic Ear Surgery: Basic Techniques
- **4:00** Introducing EES into your surgical practice (Pothier)
- **4:30** Endoscopic surgical dilatation of the Eustachian tube and nose
- **5:00** Endoscopic repair of patulous Eustachian tube
- **6:30** Adjournment

### Day 3: Endoscopic Ear Surgery

**Wednesday, March 25th**

- **7:00** Registration and Continental Breakfast
- **8:00** Welcome: Daniel Lee, MD
- **8:10** Principles of endoscopic ear surgery (EES) (Pothier)
- **8:30** Endoscopic middle ear anatomy (Nogueira)
- **9:00** Endoscopic approach to cholesteatoma (Marchioni)
- **9:30** Introducing EES into your surgical practice (Pothier)
- **10:00** Coffee Break
- **10:30** Dissection Laboratory IIA - Endoscopic Ear Surgery: Basic Techniques
  - Endoscopic transcanal tympanoplasty
  - Endoscopic identification of middle ear anatomy
  - Endoscopic medial graft tympanoplasty
  - Endoscopic canalplasty and atticoectomy
- **12:30** Lunch Break
- **1:30** Functional minimally invasive approach for excision of cholesteatoma (Poe)
- **1:50** Selective dysentisment of the middle ear (Marchioni)
- **2:10** Endoscopic ear and skull base surgery at MEEI (Lee)
- **2:30** Taking EES into the future (Nogueira)
- **3:00** Coffee Break
- **3:30** Dissection Laboratory IIB - Endoscopic Ear Surgery: Advanced Techniques
  - Endoscopic transcanal lateral graft tympanoplasty
  - Endoscopic ossiculoplasty
  - Endoscopic approach to the attic via mastoidectomy
  - Endoscopic transcanal approach to the inner ear and petrous apex
- **6:00** Adjournment

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### Course Overview

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### Objectives

At the conclusion of this course, participants will be able to:

- Utilize the latest surgical techniques for the treatment of patients with chronic sinusitis and otitis
- Integrate current methods for the diagnosis and treatment of patients with Eustachian Tube Disorders
- Describe the role of balloon dilation to enhance drainage and ventilation of the sinonasal and otologic pathways
- Utilize a team-based approach to treat patients with disorders of the pituitary and skull base

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9:30 Avoiding complications in sinus surgery (Grey)
10:00 Coffee Break
10:30 Endoscopic septoplasty: A new twist on an old procedure (Blier)
11:00 Clearing the field: Optimizing hemostasis during ESS (Soler)
11:30 Endoscopic repair of CSF leaks and ependymoceles (Chandra)
12:00 Endoscopic DCR for lacrimal obstruction (Metsion)
12:30 Lunch Break
1:30 Endoscopic orbital surgery (Soler)
2:00 Balloon dilation of the sphenoid: Patient selection and clinical outcomes (Metsion)
2:30 Endoscopic approach to skull base neoplasms: Lessons learned (Anand)
3:00 Endoscopic orbital decompression (Metsion)
3:30 Coffee Break
4:00 Panel discussion and case presentations
1. Orbital complications during sinus surgery
2. Management of frontal sinus mucoceles
3. Fungal disease and recurrent rhinitis
4. Inverted papilloma: Endoscopic vs. external approach
6:00 Reception and Cocktails
7:00 Dinner at the Harvard Faculty Club, Harvard Square, Cambridge, MA

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11:00 Endoscopic surgical dilation of Eustachian tube: Early and delayed results (Anand)
11:30 Management of the patulous Eustachian tube (Poe)
12:00 Lunch Break
12:30 Dissection Laboratory I A - Sinus and Eustachian Tube Techniques
3:30 Dissection Laboratory II B - Sinus and Eustachian Tube Techniques
(Registered Participants Only)
• Balloon dilation of the Eustachian tube and sinuses
• Endoscopic approaches to the skull base
• Frontal sinus hydrotherapy
• Endoscopic arterial ligation
• Endoscopic DCR/orbital decompression
• Endoscopic repair of patulous Eustachian tube
6:30 Adjournment

Day 3 Endoscopic Ear Surgery

Wednesday, March 25th

7:00 Registration and Continental Breakfast
8:00 Welcome: Daniel Lee, MD
8:10 Principles of endoscopic ear surgery (EES) (Pothier)
8:30 Endoscopic middle ear anatomy (Nogueira)
9:00 Endoscopic approach to cholesteatoma (Marchioni)
9:30 Introducing EES into your surgical practice (Pothier)
10:00 Coffee Break
10:30 Dissection Laboratory II A - Endoscopic Eustachian Tube Surgery: Basic Techniques
(Registered Participants Only)
• Endoscopic transcranial tympanotomy
• Endoscopic identification of middle ear anatomy
• Endoscopic medial graft tympanoplasty
• Endoscopic canalplasty and atticotomy
12:30 Lunch Break
1:30 Functional minimally invasive approach for excision of cholesteatoma (Poe)
1:50 Selective vestibular malfunction of the middle ear (Marchioni)
2:10 Endoscopic ear and skull base surgery at MEEI (Lee)
2:30 Taking EES into the future (Nogueira)
3:00 Coffee Break
3:30 Dissection Laboratory II B - Endoscopic Ear Surgery: Advanced Techniques
(Registered Participants Only)
• Endoscopic transcranial lateral graft tympanoplasty
• Endoscopic ossiculoplasty
• Endoscopic approach to the attic via mastoidectomy
• Endoscopic transcranial approach to the inner ear and petrous apex
6:00 Adjournment

Course Overview
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Objectives
At the conclusion of this course, participants will be able to:
1. Utilize a team-based approach to treat patients with disorders of the pituitary and skull base
2. Describe the role of balloon dilation to enhance drainage and ventilation of the sinonasal and otologic pathways
3. Describe the role of balloon dilation to enhance drainage and ventilation of the sinonasal and otologic pathways
4. Utilize a team-based approach to treat patients with disorders of the pituitary and skull base

ACGME Competencies
This course is designed to meet the following ACGME Competencies: Patient care, Medical knowledge.

Course Fees
Tuition Fee: Lectures Only (Monday, Tuesday, Wednesday): $850 (USD), Lectures + Dissection Lab I (Tuesday Sinus + ET Lab): $1,850 (USD), Lectures + Dissection Lab II (Wednesday Ear Lab): $1,950 (USD), Lectures + Dissection Lab I + Dissection Lab II (3 Days): $2,950 (USD). Registration by credit card (Visa, MasterCard or American Express) can be made at: www.cme.hms.harvard.edu/courses/endoscopic.

Accreditation
The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The Harvard Medical School designates this live activity for a maximum of 21.50 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Registration Information
To register or for information on travel accommodations and the refund policy visit: www.cme.hms.harvard.edu/courses/endoscopic.

Register online:
www.cme.hms.harvard.edu/courses/endoscopic

Thank you. We hope to see you there!
Endoscopic Surgery of the Sinuses, Eustachian Tube, and Ear

New 3-Day Course
March 23 – 25, 2015
Massachusetts Eye & Ear Infirmary | Boston, MA

Course Directors: Ralph Metson, MD and Dennis Poe, MD
Co-Directors: Stacey Gray, MD, Eric Holbrook, MD, Daniel Lee, MD

Course videos can be previewed at www.SinusVideos.com

Faculty

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Ralph Metson, MD
Director, Rhinology Fellowship Program
Clinical Professor, Department of Otolaryngology
Harvard Medical School

Dennis Poe, MD, PhD
Director, Otolaryngology & Neurotology
Boston Children’s Hospital
Associate Professor, Department of Otolaryngology
Harvard Medical School

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Daniel J. Lee, MD
Director, Pediatric Ear, Hearing and Balance Center
Massachusetts Eye & Ear Infirmary
Assistant Professor, Department of Otolaryngology
Harvard Medical School

Invited Guest Faculty
Vijay K. Anand, MD
Clinical Professor of Otorhinolaryngology
Weil Medical College of Cornell University
Co-Director, Institute for Minimally Invasive Skull Base and Pituitary Surgery
New York Presbyterian Hospital

Rakesh Chandra, MD
Chief, Rhinology, Sinus & Skull Base Surgery
Vanderbilt University, Department of Otolaryngology
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