

University of Pennsylvania  
Department of Otorhinolaryngology-  
Head and Neck Surgery and  
Department of Neurosurgery Present:

Continuing Medical Education



Perelman  
School of Medicine  
UNIVERSITY OF PENNSYLVANIA

# PENN International Rhinology and Skull Base Course

March 8-10, 2012

# PENN Rhinoplasty Course

March 10-11, 2012

The Westin Philadelphia



New State-of-the-Art Lab Facility

## PENN International Rhinology and Skull Base Course

**EXECUTIVE DIRECTOR**  
(ORL-HNS CME)

James N. Palmer, MD



**COURSE CO-DIRECTORS**

Bert W. O'Malley, Jr., MD

David W. Kennedy, MD

Noam A. Cohen, MD, PhD

Nithin Adappa, MD

M. Sean Grady, MD

John Y.K. Lee, MD

**PENN DISTINGUISHED  
SKULL BASE PROFESSORSHIP**

Paolo Cappabianca, MD

Piero Nicolai, MD

**GUEST FACULTY**

Rakesh Chandra, MD

Alexander G. Chiu, MD

Costas G. Hadjipanayis, MD, PhD

John Jane, Jr., MD

G. Michael Lemole, Jr., MD

Rodney J. Schlosser, MD

## PENN Rhinoplasty Course

**COURSE DIRECTOR**

Oren Friedman, MD

**COURSE CO-DIRECTORS**

Ara A. Chalian, MD

Daniel G. Becker, MD

**GUEST FACULTY**

Paul Carniol, MD

Stephen A. Goldstein, MD

Grant Hamilton, MD

Eugene B. Kern, MD

Ira D. Papel, MD

Tom D. Wang, MD

# PENN International Rhinology and Skull Base Course

## Executive Course Director (ORL-HNS CME)

### James N. Palmer, MD

Associate Professor  
Director, Division of Rhinology  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

## Course Co-Directors

### Bert W. O'Malley, Jr., MD

Gabriel Tucker Professor and Chair  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

### David W. Kennedy, MD

Rhinology Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

### Noam A. Cohen, MD, PhD

Assistant Professor  
Director, Rhinology Research Laboratory  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System and  
Philadelphia Veterans Affairs  
Medical Center

### Nithin Adappa, MD

Assistant Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

### M. Sean Grady, MD

Charles Harrison Frazier Professor & Chair  
Department of Neurosurgery  
University of Pennsylvania Health System

### John Y.K. Lee, MD

Assistant Professor  
Department of Neurosurgery  
University of Pennsylvania Health System

## Penn Distinguished Skull Base Professorship

### Paolo Cappabianca, MD

Professor and Chairman  
Department of Neurological Surgery  
University of Naples Federico II, Italy

### Piero Nicolai, MD

Professor and Chairman  
Department of Otorhinolaryngology  
University of Brescia, Italy

## Distinguished Visiting Faculty

### Rakesh Chandra, MD

Associate Professor  
Department of Otolaryngology-  
Head and Neck Surgery  
Northwestern University  
Feinberg School of Medicine  
Chicago, IL

### Alexander G. Chiu, MD

Professor, Department of Surgery  
Chief, Division of Otolaryngology-  
Head and Neck Surgery  
University of Arizona, Tucson, AZ

### Satish Govindaraj, MD

Assistant Professor  
Department of Otolaryngology  
Mount Sinai Medical Center  
New York, NY

### Costas G. Hadjipanayis, MD, PhD

Assistant Professor  
Chief of Neurosurgery Service  
Department of Neurosurgery  
Emory University School of Medicine  
Atlanta, GA

### Alexis H. Jackman, MD

Assistant Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
Albert Einstein School of Medicine/  
Montefiore Medical Center, New York, NY

### John Jane, Jr., MD

Associate Professor  
Department of Neurosurgery  
University of Virginia, Charlottesville, VA

### Jivianne Lee, MD

Orange County Sinus Institute, SCPMG  
Assistant Clinical Professor  
Division of Head & Neck Surgery  
UCLA School of Medicine, Irvine, CA

### John Lee, MD

Assistant Professor  
Department of Otolaryngology-  
Head and Neck Surgery  
University of Toronto, Canada

### G. Michael Lemole, Jr., MD

Associate Professor  
Department of Surgery  
Chief, Division of Neurosurgery  
University of Arizona, Tucson, AZ

### Jayakar Nayak, MD, PHD

Assistant Professor  
Otolaryngology (Head & Neck Surgery)  
Stanford University, Stanford, CA

### Vijay Ramakrishnan, MD

Assistant Professor  
Department of Otorhinolaryngology  
University of Colorado  
Denver, CO

### Jeremy T. Reed, MD

General Otolaryngologist  
Carl R Darnall Army Medical Center  
Fort Hood, TX

### Rodney J. Schlosser, MD

Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
Medical University of South Carolina  
Charleston, SC

### Jeffrey Suh, MD

Assistant Professor  
Department of Surgery  
Division of Head & Neck Surgery  
(Otolaryngology)  
UCLA School of Medicine  
Los Angeles, CA

### Eugenia M. Vining, MD

Assistant Clinical Professor of Surgery  
Yale University School of Medicine  
New Haven, CT

### Kevin C. Welch, MD

Assistant Professor  
Department of Otolaryngology-  
Head and Neck Surgery  
Loyola University Medical Center  
Maywood, IL

### Bradford Woodworth, MD

James J. Hicks Associate Professor of Surgery  
Division of Otolaryngology,  
Head and Neck Surgery  
University of Alabama at Birmingham  
Birmingham, AL

## PENN Course Faculty

### Robert Adelson, MD

Rhinology Fellow  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

### Michelle Alonso-Basanta, MD, PhD

Helen Blum Assistant Professor  
Department of Radiation Oncology  
University of Pennsylvania Health System

### Jordan S. Josephson, MD

Director, New York Nasal and Sinus Center  
New York, NY

### James Kearney, MD

Associate Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
Pennsylvania Hospital  
University of Pennsylvania Health System

### Kim O. Learned, MD

Assistant Professor  
Department of Radiology  
University of Pennsylvania Health System

### Laurie Loevner, MD

Professor of Radiology, Otorhinolaryngology-  
Head and Neck Surgery and Neurosurgery  
University of Pennsylvania Health System

### Jason G. Newman, MD

Assistant Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

### Christopher Rassekh, MD

Associate Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

### Michael B. Siegel, MD

Director, Siegel and Bosworth ENT Center  
Rockville, MD

### Phillip (Jay) Storm, MD

Assistant Professor of Neurosurgery  
Children's Hospital of Philadelphia

### Erica R. Thaler, MD

Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

### Lawrence W.C. Tom, MD

Associate Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania and  
Children's Hospital of Philadelphia

### Calvin Wei, MD

Rhinology Fellow  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

## Target Audience

This program is designed for otorhinolaryngologists, medical rhinologists, neurosurgeons, and other related health care professionals such as nurse practitioners and physician assistants.

## Course Overview

This comprehensive three-day continuing medical education program in Rhinology and Skull Base Surgery features an outstanding national and international faculty. The course focuses on medical and surgical advances in the management of sino-nasal disease and skull base disorders. There will be specific emphasis on the frontal and sphenoid sinuses, chronic rhinosinusitis, skull base surgery, medical therapy, emerging technologies and endoscopic management of benign and malignant skull base tumors. Difficult cases, prevention, diagnosis and management of complications arising from sinus disease and skull base surgery will be reviewed.

Again we will offer live surgery at the course, but for the first time will present cases by our otolaryngologist/neurosurgeon teams! Live surgical cases will be telecasted to the Penn Surgical Theatre where participants will be able to interact with Drs. Kennedy, Palmer, O'Malley, Adappa, Grady and Lee while they are operating. Additionally, demonstration cadaver dissections will be presented by Drs. Nicolai and Cappabianca using powered instrumentation and stereotactic surgical navigation systems. The course also offers a cadaver dissection laboratory for hands-on experience with powered instrumentation, drills and image-guidance systems at every station. A special highlight of the program is the Distinguished Skull Base Professorship, featuring the lectures and dissections presented by Drs. Nicolai and Cappabianca.

## Objectives

Upon completion of the course participants should be able to:

### LECTURES:

- Identify the anatomy of the paranasal sinuses and recognize indications for endoscopic surgery
- Discuss pathophysiology of chronic rhinosinusitis and medical treatment options
- Define endoscopic approaches to the frontal and sphenoid sinuses
- Formulate strategies and solutions to manage "difficult to manage sino-nasal disease"
- Review complications of sinus surgery and their proper management
- Identify strategies to treat benign & malignant lesions of the skull base
- Describe endoscopic and open surgical techniques
- Recognize endoscopic application for treatment of neurological disorders

### LABORATORY:

- Perform routine nasal endoscopy for the diagnosis of sino-nasal disease
- Describe proper endoscopic instrument handling and surgical techniques
- Perform techniques involved in traditional and powered sphenoidectomy
- Discuss intricacies of image-guided endoscopic sinus surgery
- Identify difficult and critical areas of paranasal sinuses
- Demonstrate various frontal sinus approaches and describe their technical implementation
- Perform techniques in endoscopic skull base surgery including clival, pituitary, anterior cranial fossa, and infratemporal fossa approaches

## Accreditation

The Perelman School of Medicine at the University of Pennsylvania is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

## Designation of Credit

The Perelman School of Medicine at the University of Pennsylvania School of Medicine designates this live activity for a maximum of **24.75 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

- Rhinology/Skull Base Lecture Only ..... 17.75 credits
- Rhinology/Skull Base Lab Group 1A ..... 17.25 credits
- Rhinology/Skull Base Lab Group 1B ..... 17.25 credits
- Rhinology/Skull Base Lab Group 2 ..... 24.75 credits
- Neurosurgeons ..... 24.75 credits

## Course Registration

It is strongly recommended that you register early for this program. Registration is limited due to seating capacity in the surgical theatre and number of stations in the hands-on laboratory.

**All registrations will be confirmed by email. If you do not receive confirmation please email Cathy.Lafferty@uphs.upenn.edu or phone at 215-349-5382.**

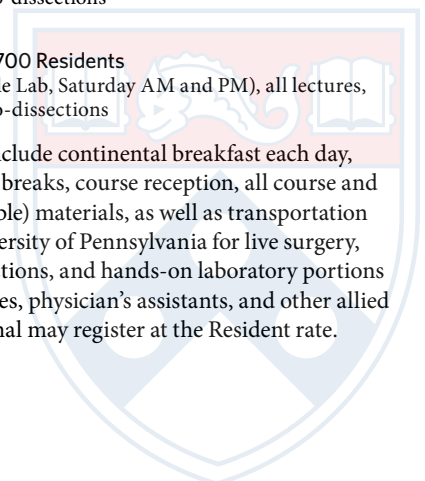
## Early Registration Discount

The following registration rates apply to all registration payments received by January 15, 2012. After that date all fees increase by \$100.

## Early Registration Fees

- **RHINOLOGY/SKULL BASE LECTURE ONLY**  
\$900 Physicians, \$700 Residents  
All lectures, live surgery and demo-dissections (no hands-on lab)
- **RHINOLOGY/SKULL BASE LAB GROUP 1A**  
\$1650 Physicians, \$1300 Residents  
1 Lab Session (Lab A, Friday AM), all lectures and demo-dissections
- **RHINOLOGY/SKULL BASE LAB GROUP 1B**  
\$1650 Physicians, \$1300 Residents  
1 Lab Session (Lab B, Friday PM), lectures (excludes Skull Base lectures on Friday), live surgery, and demo-dissections
- **RHINOLOGY/SKULL BASE LAB GROUP 2**  
\$2150 Physicians, \$1700 Residents  
2 Lab Sessions (Double Lab, Saturday AM and PM), all lectures, live surgery and demo-dissections
- **NEUROSURGEONS**  
\$2150 Physicians, \$1700 Residents  
2 Lab Sessions (Double Lab, Saturday AM and PM), all lectures, live surgery and demo-dissections

Course tuition fees include continental breakfast each day, lunches, refreshment breaks, course reception, all course and laboratory (if applicable) materials, as well as transportation to and from the University of Pennsylvania for live surgery, demonstration dissections, and hands-on laboratory portions of the program. Nurses, physician's assistants, and other allied health care professional may register at the Resident rate.



# Program Schedule

## THURSDAY, MARCH 8, 2012

- 6:45-7:45am **Course Registration, Continental Breakfast & Exhibit Viewing**  
The Westin Ballroom/Pre-Function Area
- 7:45-8:00am **Welcome/Announcements**  
Bert W. O'Malley, Jr., MD  
David W. Kennedy, MD  
James N. Palmer, MD
- 8:00-8:20am **Sinus Anatomy**  
Kevin C. Welch, MD
- 8:20-8:40am **Neurosurgical Skull Base Anatomy through the Endoscope**  
G. Michael Lemole, MD
- 8:40-9:00am **Basic Sinus Surgery & Approaches to the Skull Base-Transcribiform**  
Nithin Adappa, MD
- 9:00-9:20am **Expanded Endonasal Surgery of the Ventral Skull Base**  
John Y.K. Lee, MD
- 9:20-9:40am **Pterygopalatine Fossa and Infratemporal Fossa**  
Jason G. Newman, MD
- 9:40-10:10am **BREAK and Exhibit Viewing**
- 10:10-10:30am **Open Approaches to the Skull Base**  
Piero Nicolai, MD
- 10:30-10:50am **Orbital Considerations**  
Bert W. O'Malley, Jr., MD
- 10:50-11:10am **Endoscopic Pituitary Surgery**  
M. Sean Grady, MD
- 11:10-11:30am **Endoscopic Repair of CSF Leaks/Encephaloceles**  
David W. Kennedy, MD
- 11:30-12:00pm **Complications of Endoscopic Skull Base Surgery**  
Paolo Cappabianca, MD
- 12:00-12:30pm **Neuroradiologic Evaluation of Ventral and Central Skull Base Lesions: Pre- and Post-Operative Considerations**  
Laurie Loevner, MD
- 12:30-1:30pm **LUNCH and Exhibit Viewing**

## RHINOLOGY LECTURES

- 1:30-2:00pm **Overview of CRS**  
David W. Kennedy, MD
- 2:00-2:30pm **Mechanisms of Disease: Treatment Implications**  
Noam A. Cohen, MD, PhD
- 2:30-2:40pm **Basic Workup of Primary CRS**  
Nithin Adappa, MD
- 2:40-3:00pm **CRS Cases Panel**  
MODERATOR: Nithin Adappa, MD  
PANELISTS: Alexander G. Chiu, MD  
Noam A. Cohen, MD, PhD  
David W. Kennedy, MD  
Bradford Woodworth, MD
- 3:00-3:10pm **Most Common Situations Requiring Revision FESS**  
Rakesh Chandra, MD
- 3:10-3:30pm **Revision FESS Cases Panel**  
MODERATOR: Rakesh Chandra, MD  
PANELISTS: John Lee, MD  
Jeffrey Suh, MD  
Eugenia M. Vining, MD  
Kevin C. Welch, MD
- 3:30-4:00pm **BREAK and Exhibit Viewing**
- 4:00-4:10pm **Frontal Sinus Anatomy**  
James N. Palmer, MD
- 4:10-4:30pm **Frontal Sinus Panel**  
MODERATOR: James N. Palmer, MD  
PANELISTS: David W. Kennedy, MD  
Piero Nicolai, MD  
Vijay Ramakrishnan, MD  
Rodney J. Schlosser, MD
- 4:30-4:40pm **Complications: Immediate Treatments**  
Piero Nicolai, MD
- 4:40-5:00pm **Complications Panel**  
MODERATOR: Piero Nicolai, MD  
PANELISTS: Alexander G. Chiu, MD  
Satish Govindaraj, MD  
Eugenia M. Vining, MD  
Kevin C. Welch, MD
- 5:00-5:10pm **Topical Therapies for Recalcitrant Disease**  
Alexander G. Chiu, MD
- 5:10-5:30pm **Revision/Recalcitrant Disease Panel**  
MODERATOR: Alexander G. Chiu, MD  
PANELISTS: Noam A. Cohen, MD, PhD  
Satish Govindaraj, MD  
Jivianne Lee, MD  
Christopher Rassekh, MD  
Jeremy T. Reed, MD  
Kevin C. Welch, MD  
Bradford Woodworth, MD
- 5:30-5:40pm **Emerging Technologies**  
David W. Kennedy, MD
- 5:40-6:00pm **Cases for Emerging Technologies**  
MODERATOR: David W. Kennedy, MD  
PANELISTS: Rakesh Chandra, MD,  
Alexis H. Jackman, MD  
Jayakar Nayak, MD, PhD  
Bert W. O'Malley, Jr., MD  
Vijay Ramakrishnan, MD



# PENN International Rhinology and Skull Base Course

## NEUROSURGERY LECTURES

- 1:30-1:50pm **Endoscopic Colloid Cyst Resection**  
Costas G. Hadjipanayis, MD, PhD
- 1:50-2:10pm **Endoscopic Third Ventriculostomy and Cyst Fenestration**  
Phillip (Jay) Storm, MD
- 2:10-2:30pm **Pituitary Surgery: Advantages and Disadvantages of the Endoscope**  
John Jane, Jr., MD
- 2:30-2:50pm **Anterior Cranial Fossa Malignancy: Open and Endoscopic**  
G. Michael Lemole, MD
- 2:50-3:10pm **Craniopharyngioma: Endoscopic Resection**  
John Jane, Jr., MD
- 3:10-3:30pm **Endoscopic Retrosigmoid Cerebellar Pontine Angle Surgery**  
John Y.K. Lee, MD
- 3:30-4:00pm **BREAK and Exhibit Viewing**
- 4:00-4:20pm **Clival Chordoma/Chondrosarcoma Skull Base Surgery**  
M. Sean Grady, MD
- 4:20-4:40pm **Clival Chordoma/Chondrosarcoma Proton Radiation Therapy**  
Michelle Alonso-Basanta, MD, PhD
- 4:40-6:00pm **Case Panel**  
MODERATOR: John Y.K. Lee, MD  
PANELISTS: Costas Hadjipanayis, MD, PhD  
John Jane, Jr., MD  
G. Michael Lemole, Jr., MD  
Phillip (Jay) Storm, MD

## VIDEO SESSION

- 6:00-6:30pm **Endoscopic Surgery of Benign & Malignant Tumors**  
James N. Palmer, MD

## COURSE RECEPTION

- 7:00-9:00pm **Skull Base Professorship Reception & Casino Night**

**PLEASE NOTE:** We are pleased to announce the opening of a brand-new, state-of-the-art human-tissue lab facility available at the Perelman School of Medicine at the University of Pennsylvania. However, please be advised that there is limited space for all hands-on laboratories. All lab registrants will select from the available lab slots at the time of registration. PLEASE REGISTER EARLY TO ASSURE YOUR PREFERRED LAB DAY/TIME.

## FRIDAY, MARCH 9, 2012

- 6:30-7:10am **Continental Breakfast and Sign-in**  
The Westin Ballroom/Pre-Function Area
- 7:10-7:25am **Transportation for ALL to University of Pennsylvania**

## LIVE SURGERY

- 7:30-8:00am **Live Surgery Introductions, Pre-Operative Preparation, Case Histories** (Flyer's Theater)  
DISCUSSANTS: Alexander G. Chiu, MD  
Noam A. Cohen, MD, PhD  
John Jane, Jr., MD  
G. Michael Lemole, Jr., MD
- 8:00-11:30am **Live Surgery**  
SURGEONS: David W. Kennedy, MD  
Bert W. O'Malley, MD  
James N. Palmer, MD  
M. Sean Grady, MD  
John Y.K. Lee, MD

## RHINOLOGY/SKULL BASE LAB A

### RHINOLOGY LAB GROUP 1A

- 7:45 - 11:15am **Hands-On Laboratory** (Stemmler Hall)  
Robert Adelson, MD  
Satish Govindaraj, MD  
Alexis Jackman, MD  
Jordan S. Josephson, MD  
James Kearney, MD  
Jivianne Lee, MD  
John Lee, MD  
Jayakar Nayak, MD, PhD  
Jason Newman, MD  
Vijay Ramakrishnan, MD  
Christopher Rassekh, MD  
Jeremy T. Reed, MD  
Michael B. Siegel, MD  
Jeffrey Suh, MD  
Erica R. Thaler, MD,  
Lawrence W. C. Tom, MD  
Eugenia M. Vining, MD  
Calvin Wei, MD  
Kevin C. Welch, MD  
Bradford Woodworth, MD

- 11:30-12:00pm **Transportation for ALL back to The Westin**
- 12:00-1:00pm **LUNCH and Exhibit Viewing**
- 1:00-1:25pm **"Submit Your Case"**  
MODERATOR: Bradford Woodworth, MD  
PANELISTS: Rakesh Chandra, MD  
Noam A. Cohen, MD, PhD  
Jayakar Nayak, MD, PhD  
Rodney J. Schlosser, MD
- 1:25-1:45pm **Neurosurgeon's Perspective on a Rhinologist's Approach**  
John Jane, Jr., MD
- 1:45-2:10pm **Flap Closure of Skull Base Deficits**  
Rodney J. Schlosser, MD
- 2:10-2:35pm **Post Operative Neuroradiologic Evaluation of Skull Base Surgery**  
Kim O. Learned, MD
- 2:35-3:00pm **Ventral Skull Base Endoscopic Surgery: Past, Present and Future**  
John Y.K. Lee, MD

# Program Schedule, continued

3:00–3:30pm **BREAK and Exhibit Viewing**

## PENN DISTINGUISHED SKULL BASE PROFESSORSHIP

3:30–4:30pm **Piero Nicolai, MD**

4:30–5:30pm **Paolo Cappabianca, MD**

5:30–5:45pm **Recognition of Skull Base Professors**

## RHINOLOGY/SKULL BASE LAB B

### RHINOLOGY LAB GROUP 1B

1:00–1:30pm **Transportation to Penn**

1:30–5:00pm **Hands-On Laboratory** (Stemmler Hall)

Robert Adelson, MD  
Satish Govindaraj, MD  
Alexis Jackman, MD  
Jordan S. Josephson, MD  
James Kearney, MD  
Jivianne Lee, MD  
John Lee, MD  
Jayakar Nayak, MD, PhD  
Jason Newman, MD  
Vijay Ramakrishnan, MD  
Christopher Rassekh, MD  
Jeremy T. Reed, MD  
Michael B. Siegel, MD  
Jeffrey Suh, MD  
Erica R. Thaler, MD  
Lawrence W. C. Tom, MD  
Eugenia M. Vining, MD  
Calvin Wei, MD  
Kevin C. Welch, MD

5:00–5:30pm **Transportation back to The Westin**

## SATURDAY, MARCH 10, 2012

6:30–7:10am **Continental Breakfast and Sign-in**  
The Westin Ballroom/Pre-Function Area

7:10–7:25am **Transportation for ALL to the University of Pennsylvania**

7:30–8:15am **Demonstration Dissection: Rhinology**  
Piero Nicolai, MD

8:15–9:00am **Demonstration Dissection: Endoscopic Skull Base**  
Paolo Cappabianca, MD

### ADJOURNED

Rhinology/Skull Base Lecture Only and Lab Groups 1A and 1B

9:00–9:30am **Transportation back to The Westin**

## RHINOLOGY/SKULL BASE DOUBLE LAB

### RHINOLOGY/SKULL BASE LAB GROUP 2 & NEUROSURGEONS

9:00–12:30pm **Hands-On Laboratory** (Stemmler Hall)  
ENT: Robert Adelson, MD, Satish Govindaraj, MD, Alexis Jackman, MD, Jordan S. Josephson, MD, James Kearney, MD, Jivianne Lee, MD, John Lee, MD, Jayakar Nayak, MD, PhD, Jason Newman, MD, Vijay Ramakrishnan, MD, Christopher Rassekh, MD, Jeremy T. Reed, MD, Michael B. Siegel, MD, Jeffrey Suh, MD, Erica R. Thaler, MD, Lawrence W. C. Tom, MD, Eugenia M. Vining, MD, Calvin Wei, MD, Kevin C. Welch, MD, Bradford Woodworth, MD  
NSG: M. Sean Grady, MD, Costas G. Hadjipanayis, MD, PhD, John Jane, Jr., MD, John Y.K. Lee, MD, G. Michael Lemole, MD, Phillip (Jay) Storm, MD

12:30–1:00pm **LUNCH (Provided at University of Pennsylvania)**

1:00–4:30pm **Hands-On Laboratory** (Stemmler Hall)

### ADJOURNED

Rhinology/Skull Base Lab Group 2 & Neurosurgeons

4:30–5:00pm **Transportation back to The Westin**



# PENN Rhinoplasty Course

## Course Director

### Oren Friedman, MD

Associate Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

## Co-Directors

### Ara A. Chalian, MD

Associate Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

### Daniel G. Becker, MD

Clinical Associate Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

## Distinguished Visiting Faculty

### Paul Carniol, MD

Cosmetic, Laser & Reconstructive  
Plastic Surgery, Summit, NJ

### Stephen A. Goldstein, MD

Associate Professor of Surgery  
Division of Otolaryngology-  
Head and Neck Surgery  
University of Arizona, Tucson, AZ

### Grant Hamilton, MD

Associate Professor  
Director, Facial Plastic Surgery  
Mayo Clinic, Rochester, MN

### Eugene B. Kern, MD

Emeritus Endicott Professor Mayo Clinic  
Buffalo, NY

### Ira D. Papel, MD

Associate Professor  
Facial Plastic Surgicenter  
Johns Hopkins University  
Baltimore, MD

### Tom D. Wang, MD

Professor of Otolaryngology  
Director, Facial Plastic Surgery  
Oregon Health and Science University  
Portland, OR

## PENN Course Faculty

### Robert Adelson, MD

Rhinology Fellow  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

### Timothy Greco, MD

Clinical Associate Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

### Kelly Malloy, MD

Assistant Professor  
Department of Otorhinolaryngology-  
Head and Neck Surgery  
University of Pennsylvania Health System

### Christopher J. Miller, MD

Assistant Professor  
Department of Dermatology  
University of Pennsylvania Health System

### Joseph F. Sobanko, MD

Assistant Professor  
Department of Dermatology  
University of Pennsylvania Health System

## Target Audience

This course is designed for practicing clinicians and scientists as well as residents with an interest in rhinology and rhinoplasty. It is also intended for nursing staff involved with the care of patients with nasal problems.

## Course Overview

This course will cover valuable information for general otorhinolaryngologists as well as those focusing their practice on rhinology or facial plastic surgery. Plan to attend and learn what the experts recommend for the most difficult problems as well as the most common conditions. Earn CME credit while engaging with a distinguished faculty who provide broad perspective to this comprehensive program.

Topics to be covered by the experts and by attendee discussion include:

Evaluation and analysis of the nose; basic and advanced nasal anatomy; functional and aesthetic nasal surgery; nasal valve surgical techniques; treatment of surgical failures; pre-operative planning for safe airway and cosmetic facial plastic surgery; maximizing success in nasal airway surgery and functional septorhinoplasty; complications in airway, and facial plastic surgery; tips and pearls for rhinoplasty and other facial plastic procedures; prevention and management of rhinoplasty complications; and understanding terms and uses of grafts in rhinoplasty. In addition to lectures and discussion with audience participation, attendees may actively participate in laboratory dissection session.

## Objectives

Upon completion of the course, participants should be able to:

- Formulate a rationale for patient selection for medical management and surgical treatment of nasal obstruction and nasal deformity
- Define surgical nasal anatomy to insure safety in septorhinoplasty; assess nasal valve deformities and prescribe their surgical corrections
- Describe the latest concepts and techniques in functional and cosmetic nasal surgery
- Analyze the nose and face, and consider the aesthetic ideals as they pertain to the nose
- Identify appropriate candidacy for successful septorhinoplasty
- Describe how to avoid complications in rhinoplasty

## Accreditation

The Perelman School of Medicine at the University of Pennsylvania is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

## Designation of Credit

The Perelman School of Medicine at the University of Pennsylvania designates this live activity for a maximum of **11.75 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

- Rhinoplasty Lecture Only ..... 7.75 credits
- Rhinoplasty Lecture and Lab..... 11.75 credits

## Course Registration

It is strongly recommended that you register early for this program. Lab registration is limited due to the number of stations in the hands-on laboratory. **All registrations will be confirmed via email. If you do not receive confirmation please email Cathy.Lafferty@uphs.upenn.edu or phone at 215-349-5382.**

## Early Registration Discount

The following registration rates apply to all registration payments received by January 15, 2012. After that date all fees increase by \$100.

## Early Registration Fees

- **RHINOPLASTY LECTURE ONLY:** \$700 Physicians, \$200 Residents
- **RHINOPLASTY LECTURE & LAB:** \$1000 Physicians, \$500 Residents

Course tuition fees include continental breakfast each day, lunch on Saturday, refreshment breaks, all course and laboratory (if applicable) materials, as well as transportation to and from the University of Pennsylvania for hands-on laboratory portion of the program. Nurses, physician's assistants, and other allied health care professional may register at the Resident rate.

# Program Schedule

## SATURDAY, MARCH 10, 2012

8:30-9:15am **Course Registration, Continental Breakfast and Exhibit Viewing**  
The Westin Ballroom/Pre-Function Area

9:15-9:30am **Welcome/Announcements**

**Morning Session Moderator:** Oren Friedman, MD

9:30-9:45am **Nasal Airway Physiology**  
Robert Adelson, MD

9:45-10:00am **Facial Analysis and Nasal Analysis**  
Daniel G. Becker, MD

10:00-10:15am **Surgical Anatomy of the Nose**  
Grant Hamilton, MD

10:15-10:30am **Technical Considerations:  
Skin Thickness, Infiltrative Anesthesia,  
Incisions and Approaches**  
Ira Papel, MD

10:30-10:45am **Basic and Advanced Septoplasty Techniques**  
Eugene B. Kern, MD

10:45-11:00am **Nasal Valve:  
What Is It and How Do We Deal With It?**  
Oren Friedman, MD

11:00-11:20am **BREAK and Exhibit Viewing**

11:20-11:35am **Rotation and Projection Techniques**  
Tom D. Wang, MD

11:35-11:50am **Tip Refinement**  
Grant Hamilton, MD

11:50-12:05pm **Dorsal Modifications**  
Stephen A. Goldstein, MD

12:05 - 12:15pm **Osteotomies**  
Robert Adelson, MD

12:15-12:25pm **Alar Base Narrowing**  
Timothy Greco, MD

12:25 - 12:50pm **External Rhinoplasty:  
Step by Step and Personal Philosophy**  
Grant Hamilton, MD

12:50-1:15pm **Endonasal Rhinoplasty:  
Step by Step and Personal Philosophy**  
Paul Carniol, MD

1:15-2:00pm **LUNCH and PANEL DISCUSSION  
Nasal Analysis and Surgical Approaches**  
MODERATOR: Oren Friedman, MD  
PANELISTS: Daniel G. Becker, MD,  
Stephen A. Goldstein, MD,  
Grant Hamilton, MD, Ira Papel, MD,  
Tom D. Wang, MD

**Afternoon Session Moderator:** Daniel G. Becker, MD

2:00-2:15pm **Cartilage Grafts**  
Paul Carniol, MD

2:15-2:30pm **Management of the Crooked Nose**  
Timothy Greco, MD

2:30-2:45pm **Management of the Saddle Nose**  
Daniel G. Becker, MD

**PLEASE NOTE:** We are pleased to announce the opening of a brand-new, state-of-the-art human-tissue lab facility available at the Perelman School of Medicine at the University of Pennsylvania. However, please be advised that there is limited space for all hands-on laboratories. All lab registrants will select from the available lab slots at the time of registration. PLEASE REGISTER EARLY TO ASSURE YOUR PREFERRED LAB DAY/TIME.

2:45-3:00pm **Management of the Long Nose**  
Ira Papel, MD

3:00-3:15pm **Management of the Short Nose**  
Tom D. Wang, MD

3:15-3:40pm **BREAK and Exhibit Viewing**

3:40-4:10pm **Rhinoplasty: My Personal Philosophy**  
Tom D. Wang, MD

4:10-4:40pm **Rhinoplasty: My Personal Philosophy**  
Ira Papel, MD

4:40-5:00pm **Lessons Learned from 40 Years in Rhinoplasty  
and Rhinology**  
Eugene B. Kern, MD

5:00-6:00pm **Expert Panel Discussion:  
Rhinoplasty Complications and  
Challenging Cases**  
MODERATOR: Oren Friedman, MD  
PANELISTS: Daniel G. Becker, MD, Timothy Greco, MD,  
Grant Hamilton, MD, Eugene B. Kern, MD,  
Ira Papel, MD, Tom D. Wang, MD

6:00pm **Rhinoplasty Lecture Only Participants Adjourned**

## SUNDAY, MARCH 11, 2012

7:00-7:30am **Continental Breakfast and Sign-in**  
The Westin Ballroom/Pre-Function Area

7:30-8:00am **Transportation to the University of Pennsylvania**

8:00-12:00pm **Hands-On Laboratory (Stemmler Hall)**  
Lab Faculty: All  
Participants will engage in guided cadaver dissection to include septoplasty, nasal grafts, endonasal rhinoplasty, external rhinoplasty, osteotomy.

Breakout prosection demonstrations of nasal reconstruction procedures featuring distinguished Penn faculty:

**Ara A. Chalian, MD**  
**Kelly Malloy, MD**  
**Christopher Miller, MD**  
**Joseph F. Sobanko, MD**

12:00pm **Transportation back to The Westin**

12:30pm **Adjourned**

# General Information

## The Westin Philadelphia

99 South 17th Street, Philadelphia, PA 19103  
Phone: 215-563-1600

All lecture portions of this course will be held at one of the city's finest hotels. Situated in the heart of a city rich with history, the Westin Philadelphia elegantly enhances its desirable Rittenhouse Square address with comfort and style. Upscale shops, award-winning restaurants, the theater district and historic attractions are all within walking distance from the hotel's front door in this premiere downtown location. Amenities include the trademark Heavenly Bed®, marble bathrooms, plasma television and CD player, honor bar, guest voicemail, digital safe, wireless internet access, 24-hour business center, and the Westin Workout Center. The hotel is located at 99 South 17th Street at Liberty Place, just 8 miles from Philadelphia International Airport and one mile from Amtrak's 30th Street Station.

For driving directions please visit the website:  
<http://www.starwoodhotels.com/westin/property/area/directions.html?propertyID=1231>

Hotel parking ranges from \$29/day/self to \$35/day/valet and \$35 overnight/self to \$47 overnight/valet (subject to change). The parking fee is not covered by the course.

### HOTEL ACCOMMODATIONS AT THE WESTIN PHILADELPHIA

Rooms are available Wednesday, March 7, 2012 through Sunday, March 11, 2012 at a special rate of \$209.00 per night (Deluxe King) plus tax (currently 15.2%). Reservations may be made directly by calling the Hotel's Reservation Department at 1-888-627-8153. You may also register online at: <http://www.starwoodmeeting.com/Book/pennrhinol>. Please be sure to reference The University of Pennsylvania Rhinology/Skull Base or Rhinoplasty Course when making your hotel reservation. **Please book your room no later than Monday, February 6, 2012.** After the cutoff date, reservations will be accepted on a space and rate availability basis only.

### SPECIAL DISCOUNT FOR THOSE WHO REGISTER FOR BOTH THE PENN INTERNATIONAL RHINOLOGY AND SKULL BASE DISSECTION COURSE & THE PENN RHINOPLASTY COURSE (WITH LAB)

See the registration form or online registration site for details. The Rhinology/Skull Base Lecture Only and Rhinology/Skull Base Lab Groups 1A and 1B program schedules have been designed to accommodate those who wish to attend BOTH courses.

### Disclosures

The Perelman School of Medicine at the University of Pennsylvania, Office of Continuing Medical Education, adheres to the ACCME *Standards for Commercial Support*. Faculty disclosure information will be made available in the conference materials and syllabi. Faculty members are also expected to disclose to participants any discussions of off-label and/or investigational uses of pharmaceutical products within their presentations.

### Course Cancellation Policy

The University of Pennsylvania reserves the right to cancel or postpone any course due to unforeseen circumstances. In the event of cancellation or postponement by the University, the University will refund conference registration fees but is not responsible for any related costs, charges or expenses to participants including cancellation fees assessed by airlines, travel agencies and hotels.

If a participant must cancel his/her registration, he or she may receive a refund if written notification is received by **February 6, 2012**. Refunds will not be processed after this date. All refunds are subject to a **\$75.00 cancellation fee**. Please fax or email your cancellation notification to Cathy Lafferty, at fax number 215-662-4515 or [Cathy.Lafferty@uphs.upenn.edu](mailto:Cathy.Lafferty@uphs.upenn.edu). For more information please call 215-349-5382.

### Nondiscrimination Statement

The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, sex, sexual orientation, gender identity, religion, color, national or ethnic group, age, status as a Vietnam Era Veteran or disabled veteran in the administration of educational policies, programs or activities; admissions policies; scholarship and loan awards; athletic or other University administered programs or employment. Questions or complaints regarding this policy should be directed to the Executive Director, Office of Affirmative Action, Suite 228, Sansom Place East, 3600 Chestnut Street, Philadelphia, PA 19104-6106 or 215-898-6993 (Voice) or 215-898-7803 (TDD).

### Services for the Disabled/Special Arrangements

If special arrangements are required for an individual with a disability, or for any reason, to attend this meeting please contact Cathy Lafferty at 215-349-5382 or email [Cathy.Lafferty@uphs.upenn.edu](mailto:Cathy.Lafferty@uphs.upenn.edu) by February 15, 2012.



# Upcoming and Ongoing Events

## 6th International Update Course: Otolaryngology Underwater\*

December 4-7, 2012

Brac Reef Beach Resort, Cayman Brac

Come join us for this 4-day program intended for otolaryngologists who wish to combine a first rate meeting with spectacular scuba diving opportunities. Course directors Dr. David Kennedy and Dr. Bert O'Malley, Jr. have planned another excellent program to review and update recent advances in rhinology, head and neck surgery, pediatric otolaryngology, robotic surgery, management of OSA, thyroid surgery, and allergy management and SLIT, and facial plastic surgery. Distinguished faculty from around the world will be featured.

## 19th Annual Advances in Diagnosis and Treatment of Sleep Apnea and Snoring\*

February 15-17, 2013

Disney Boardwalk Inn Resort, Orlando, Florida

This course, designed to provide a comprehensive review and update of recent advances in sleep apnea and snoring, is intended for physicians in the fields of Otolaryngology, Pulmonary Medicine, Sleep Medicine, Oral Maxillofacial Surgery, Dentistry, Family Practice, Internal Medicine, Neurology, Cardiology, and Psychiatry. Course directors Dr. Richard Schwab, from the University of Pennsylvania's Division of Sleep Medicine, and Dr. Andrew Goldberg and Dr. Eric Kezirian from UCSF's Department of Otolaryngology-Head and Neck Surgery, will assemble a distinguished faculty, all leaders in their fields of sleep medicine who will share their medical and surgical expertise. New approaches and controversies in the management of patients with sleep-disordered breathing will be highlighted. Optional break-out sessions will also be offered, including a hands-on lab.

*\*The Perelman School of Medicine at the University of Pennsylvania is accredited by the Accreditation Council for Continuing Medical Education (ACME) to provide continuing medical education for physicians. These activities are approved for AMA PRA Category 1 Credits™*

## 2nd Annual ORL Rising Chiefs Boot Camp

May 5, 2012 • Penn Medicine Clinical Simulation Center  
Philadelphia, Pennsylvania

This one-day program is intended for PGY4 "Rising Chief" otolaryngology residents, providing the opportunity to hone cognitive and psychomotor skills. Includes simulation-based educational activities: surgical task training, virtual reality and physical model surgical simulation, and simulation of complex medical scenarios using high technology manikins and debriefing.

Presented by Penn Medicine, Children's Hospital of Philadelphia, and Georgetown University by course directors Dr. Kelly Malloy, Dr. Ellen Deutsch, Dr. Luv Javia and Dr. Sonya Malekzadeh.

## 3rd Annual ORL Emergencies Boot Camp

July 7, 2012 • Georgetown/SiTELS, Washington, DC

This one-day course is an experience intended for junior ORL residents to rapidly acquire basic ORL emergency "on-call" skills, featuring hands-on simulated emergency scenarios and various skills stations. The goal is to provide a new junior resident with a chance to acquire important skills and decision-making capabilities in a controlled environment to build their confidence and ability as they start their ORL training.

Presented by Penn Medicine, Children's Hospital of Philadelphia and Georgetown University by course directors Dr. Kelly Malloy, Dr. Ellen Deutsch, and Dr. Sonya Malekzadeh.

## Visiting Mini Fellowship in Endoscopic Sinus Surgery at University of Pennsylvania Department of Otorhinolaryngology-Head and Neck Surgery

This program is designed for practicing Otolaryngologists with a significant interest in endoscopic sinus surgery and management of sinus and nasal problems. The course is a 3-day, one-on-one clinical experience where participants may spend time with Dr. David Kennedy, Dr. James Palmer, and Dr. Nithin Adappa during their office hours, observing them in surgery, and performing a cadaveric dissection. It will be of particular benefit to Otolaryngologists who have been to didactic courses, developed some experience with FESS and identified specific problem areas in the surgical management of patients with sinus disease.



# Meeting Registration Form

Name (first) \_\_\_\_\_ (last) \_\_\_\_\_

MD  PhD  DO  NP  PA  Other \_\_\_\_\_

Specialty:  Otorhinolaryngology  Neurosurgery  Neurology  General Practice  Facial Plastic and Reconstructive Surgery  
 Other \_\_\_\_\_

Address (home) or (office) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_ Country \_\_\_\_\_

E-mail address \_\_\_\_\_

Daytime phone (\_\_\_\_\_) \_\_\_\_\_ Fax (\_\_\_\_\_) \_\_\_\_\_

## Tuition Fees

**Early Registration Special! The following special rates are in effect until January 15, 2012 only! After January 15, 2012 all rates increase by \$100.**

### PENN International Rhinology and Skull Base Course • March 8-10, 2012

*\*Residents are required to submit a verification letter from their department for the reduced fee.*

#### RHINOLOGY/SKULL BASE LECTURE ONLY

- \$900 Physicians  
 \$700 Residents\*

#### RHINOLOGY/SKULL BASE LAB GROUP 1A

(Friday AM Lab)

- \$1650 Physicians  
 \$1300 Residents\*

#### RHINOLOGY/SKULL BASE LAB GROUP 1B

(Friday PM Lab)

- \$1650 Physicians  
 \$1300 Residents\*

#### RHINOLOGY/SKULL BASE LAB GROUP 2

(Double Lab - Saturday AM & PM)

- \$2150 Physicians  
 \$1700 Residents\*

#### NEUROSURGEONS

(Double Lab - Saturday AM & PM)

- \$2150 Physicians  
 \$1700 Residents\*

### COURSE RECEPTION • Thursday, March 8, 2012 at The Westin, 7:00-9:00pm

I plan to attend the Skull Base Professorship Reception and Casino Night

- YES  NO (Free for all course participants)

### PENN Rhinoplasty Course • March 10-11, 2012

#### RHINOPLASTY LECTURE ONLY

- \$700 Physicians  
 \$200 Residents\*

#### RHINOPLASTY LECTURE & LAB

(Sunday AM Lab)

- \$1000 Physicians  
 \$500 Residents\*

*\*Residents are required to submit a verification letter from their department for the reduced fee.*

### Special Discounted Rate for Combined Registration With Lab • March 8-11, 2012

Penn International Rhinology & Skull Base Course (Rhinology Group 1A or 1B) AND  
Penn Rhinoplasty Course (Lecture and Lab)

#### RHINOLOGY/SKULL BASE LAB GROUP 1A (Friday AM Lab) AND

#### RHINOPLASTY LECTURE & LAB (Sunday AM Lab)

- \$2250 Physicians  
 \$1500 Residents\*

#### RHINOLOGY/SKULL BASE LAB GROUP 1B (Friday PM Lab) AND

#### RHINOPLASTY LECTURE & LAB (Sunday AM Lab)

- \$2250 Physicians  
 \$1500 Residents\*

*\*Residents are required to submit a verification letter from their department for the reduced fee.*

### COURSE RECEPTION • Thursday, March 8, 2012 at The Westin, 7:00-9:00pm

I plan to attend the Skull Base Professorship Reception and Casino Night

- YES  NO (Free for all course participants)

## Payment Method

TOTAL PAYMENT: \$ \_\_\_\_\_

### Check Enclosed

Payable to Trustees of the University of Pennsylvania  
US dollars drawn on a US Bank

## LAB SPACE LIMITED - AVAILABLE ON A FIRST COME BASIS. REGISTER EARLY TO SECURE A SPOT!

We are pleased to announce the opening of a brand-new, state-of-the-art human-tissue lab facility available at the Perelman School of Medicine at the University of Pennsylvania. However, please be advised that there is limited space for all hands-on laboratories. All lab registrants will select from the available lab slots at the time of registration. PLEASE REGISTER EARLY TO ASSURE YOUR PREFERRED LAB DAY/TIME.

## 2 Ways to Register

1. Go online to [www.uphs.upenn.edu/pennorl](http://www.uphs.upenn.edu/pennorl), click on CME Programs and follow the course registration link. Online payment options include credit card, check and wire transfer.
2. Mail Registration Form and Check Payment to: University of Pennsylvania, Conference Services, Attn: Holly Marrone, Re: Rhinology Course, 3702 Spruce Street, Stouffer Commons, Philadelphia, PA 19104-6027  
(No credit card payments accepted by mail; credit card payment accepted online only.)

All registrations will be confirmed by email. If you do not receive confirmation, it may indicate that we have not received your registration. To be sure you are registered, please contact Cathy Lafferty at 215-349-5382 or email [cathy.lafferty@uphs.upenn.edu](mailto:cathy.lafferty@uphs.upenn.edu) before March 1st.



CME Coordinator  
Department of Otorhinolaryngology –  
Head and Neck Surgery  
University of Pennsylvania Medical Center  
3400 Spruce Street, 5 Silverstein  
Philadelphia, PA 19104

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## Penn International Rhinology and Skull Base Course

March 8-10, 2012

Featuring the Penn Distinguished Skull Base Professorship  
Paolo Cappabianca, MD, Piero Nicolai, MD

## Penn Rhinoplasty Course

March 10-11, 2012

## The Westin Philadelphia Hotel

**REGISTER EARLY!**

**For more information:**

Cathy Lafferty, Department of Otorhinolaryngology  
Phone: 215-349-5382 • Fax: 215-662-4515  
Email: [cathy.lafferty@uphs.upenn.edu](mailto:cathy.lafferty@uphs.upenn.edu)  
Website: <http://www.uphs.upenn.edu/pennorl>

**New Format: 2 Courses, 1 Location**