May 29-May 31, 2014
Columbus, Ohio

State-of-the-Art Endoscopic Skull Base Surgery
A HANDS-ON COURSE

THE OHIO STATE UNIVERSITY COMPREHENSIVE CANCER CENTER – JAMES CANCER HOSPITAL AND SOLove RESEARCH INSTITUTE

COURSE DESCRIPTION

Responding to the increased familiarity with endonasal endoscopic skull base surgery, we have modified the program to start at a higher level of expertise, and to promote discussions related to treatment algorithms of specific diseases. However, we recognize the value of refreshing basic concepts, and that our course caters to participants with a variety of levels of training and experience. Therefore, we will provide the participants with a series of video lectures and video-prosections to fulfill those needs. This video-lecture series will allow the participants to enjoy the benefits of both a traditional lecture-style course based on anatomic and technical concepts, and a course with a new interactive format emphasizing decision-making and disease-oriented discussions. Participants will in fact enroll in two courses, a home study course and the hands-on course without additional costs.

The course comprises:
1. Pre-course video lectures addressing the basic principles of endoscopic skull base surgery, anatomy of the sinonasal tract and skull base, and basic surgical technique and instrumentation. These will be provided to registered participants one month prior to the course, as the program will start at a level that presumes familiarity with these principles.
2. Anatomical prosections (videos will be provided one month prior to the course).
3. Laminated dissection manual (digital version will be provided one month prior to the course).
4. Sequence of complementary didactic lectures, round tables and panel discussions (open format with audience participation), 3-D anatomical reviews and hands-on cadaveric dissection.
5. Live surgery will be transmitted directly to the auditorium where the participants may interact with the surgeons and other members of the faculty.

COURSE OBJECTIVES

At the conclusion of this activity, learners should be able to:
1. Describe the anatomic relationships of the sinonasal tract, orbit and ventral skull base from the endoscopic perspective.
2. Discuss the indications and limitations of endoscopic endonasal surgery of the skull base, pituitary fossa, orbit and craniocervical junction.
3. Identify how to avoid and treat complications of endoscopic endonasal surgery of the skull base, pituitary fossa, orbit and craniocervical junction.
4. Describe the anatomic relationships and surgical exposure afforded by the transpterygoid approach.
5. Describe the relative anatomical exposures of the endonasal versus the open traditional approaches.
6. Identify how to avoid and treat complications of endoscopic skull base surgery.

TARGET AUDIENCE

Neurosurgeons, otolaryngologists-head and neck surgeons and other skull base surgeons who are interested in learning endonasal endoscopic surgery of the skull base, pituitary fossa, orbit and craniocervical junction.

FACULTY

Ricardo L. Carrau, MD, FACS
Professor
Department of Otolaryngology-Head and Neck Surgery*

Bradley A. Otto, MD
Professor
Department of Otolaryngology-Head and Neck Surgery*

David M. Porevski, MD
Associate Professor
Department of Neurological Surgery*

THE OHIO STATE UNIVERSITY FACULTY

Antti Arai MD, Associate Professor
Department of Otolaryngology-Head and Neck Surgery*

Claudia Kirsch, MD, Associate Professor of Neurosurgery and Otolaryngology*

Brendan R. Lennon, MD, Professor and Chair
Department of Otolaryngology-Head and Neck Surgery*

Matthew Old, MD, Assistant Professor
Department of Otolaryngology-Head and Neck Surgery*

Drew Oser, MD, Associate Professor
Department of Otolaryngology-Head and Neck Surgery*

Eric Sawagaki, MD, Associate Professor
Department of Otolaryngology-Head and Neck Surgery*

Theodore R. Tenas, MD, Professor
Department of Otolaryngology-Head and Neck Surgery*

*OSUCDC, Columbus, Ohio

ASSOCIATE FACULTY

Clinical Fellows
Joe Chao, MD
Lena Dinh/Filho, MD

Research Fellows
Lorna Bubulac, MD
Ricardo Dolei, MD
Ali Jamshidi, MD
Enver Ozer, MD
Russell R. Lonser, MD
Matthew Old, MD

The Ohio State University Faculty Members

THE OHIO STATE UNIVERSITY FACULTY

Nuria E. Esparza, MD
Associate Professor
Department of Otolaryngology-Head and Neck Surgery*

Andrew S. Liltie, MD, FAAMS
Co-Director
Barnes Hospital Skull Base Program

Edward Kerr, MD

C. Arturo Solanes, MD
Associate Professor
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Director, Center for Cranial Base Surgery

Georgia Regents University

Augusta, Georgia

GUEST FACULTY

Ravi K. Prasad, MD
President
Barrow Neurological Institute

Paula Marquesa Filho, MD
Rambanovszay. Szentgyorgy.

Teck Soong Ng, MD
Kangwai-Tangnank, MD

Smita Upadhya, MD

Daniel M. Prevedello, MD

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Daniel M. Prevedello, MD
COURSE DESCRIPTION

State-of-the-Art Endoscopic Skull Base Surgery
A HANDS-ON COURSE

THE OHIO STATE UNIVERSITY COMPREHENSIVE CANCER CENTER – JAMES CANCER HOSPITAL AND SOLove RESEARCH INSTITUTE

COURSE DIRECTORS
Ricardo L. Carrau, MD, FACS
Professor
Department of Otolaryngology-Head and Neck Surgery*

Daniel M. Prevedello, MD
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Department of Otolaryngology-Head and Neck Surgery*

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Assistant Professor
Department of Otolaryngology-Head and Neck Surgery*

Daniel M. Prevedello, MD
Assistant Professor
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FACULTY

THE OHIO STATE UNIVERSITY FACULTY

Claudia Kirsch, MD, Associate Professor
Department of Neurosciences and Otolaryngology*

Russell R. Lennon, MD, Professor and Chair
Department of Neurological Surgery

Matthew Oll, MD, Assistant Professor
Department of Otolaryngology-Head and Neck Surgery

Drusen Ong, MD, Associate Professor
Department of Otolaryngology-Head and Neck Surgery

Eric Sauwages, MD, Associate Professor
Department of Neurological Surgery

Theodore N. Reyes, MD, Professor
Department of Otolaryngology-Head and Neck Surgery

*

ASSOCIATE FACULTY

Amit Agrawal, MD
Professor and Chair
Department of Neurological Surgery*

Paula Mosqueda, MD
Assistant Professor
Department of Neurological Surgery*

Bonnie Barnard, MD
Associate Professor
Department of Neurosciences and Otolaryngology*

C. Arturo Solares, MD
Professor and Chair
Department of Neurology*

Brian Vose, MD, FACS, Associate Professor
Department of Otolaryngology-Head and Neck Surgery

Andrew S. Little, MD, FACS
Associate Professor
Department of Neurological Surgery*

Serena Solomon, MD
Assistant Professor
Department of Neurosurgery

*SELECT chooses Columbus, Ohio

GUEST FACULTY

Jesada Kanjanaumporn, MD
Professor, Neurosurgery

Jesse Lerner, MD, FACS
Senior Associate Professor, Neurosurgery

Joseph D. Carty, MD
Professor, Neurosurgery

Jorge J. Morillo, MD
Associate Professor, Neurosurgery

*SELECT chooses Columbus, Ohio

Clinical Fellows

Jaidee Chot, MD
Theodore N. Reyes, MD, PhD

Jesada Kanjanaumporn, MD
Ali Jamshidi, MD

Clinical and Research Fellows

Leo Ditzel Filho, MD
Lamia Buohliqah, MD

Enver Ozer, MD
Ricardo L. Carrau, MD, FACS

Research Fellows

Jerrold Zmijewski, MD
Amit Agrawal, MD

Matthew Old, MD
Russell R. Lennon, MD

COURSE OBJECTIVES

At the conclusion of this activity, learners should be able to:

1. Describe the anatomic relationships of the sinonasal tract, orbit and ventral skull base from the endoscopic perspective

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3. Identify how to avoid and treat complications of endoscopic endonasal surgery of the skull base, pituitary fossa, orbit and cranio-cervical junction

4. Sequence of complementary didactic lectures, round tables and panel discussions (open format with audience participation), 3-D anatomical reviews and hands-on cadaveric dissection.

5. Live surgery will be transmitted directly to the auditorium where the participants may interact with the surgeons and other members of the faculty.

SPONSORED BY

The James

THE OHIO STATE UNIVERSITY COMPREHENSIVE CANCER CENTER – JAMES CANCER HOSPITAL AND SOLove RESEARCH INSTITUTE

TARGET AUDIENCE

Neurosurgeons, otolaryngologists-head and neck surgeons and other skull base surgeons who are interested in learning endoscopic endonasal surgery of the skull base, pituitary fossa, orbit and cranio-cervical junction.
State-of-the-Art Endoscopic Skull Base Surgery
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2. Anatomical presentations (slides will be provided one month prior to the course).
3. Laminated dissection manual (digital version will be provided one month prior to the course).
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6. Identify how to avoid and treat complications of endoscopic skull base surgery

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The James
THE OHIO STATE UNIVERSITY COMPREHENSIVE CANCER CENTER

FACULTY
COURSE DIRECTORS
Ricardo L. Carrau, MD, FACS
Professor
Department of Otolaryngology-Head and Neck Surgery

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*TRIEC – Columbus, Ohio

ASSOCIATE FACULTY
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Ali Jamshidi, MD
Ricardo Dolci, MD
Lamia Buohliqah, MD
Elena Lusera, MD
Daniel M. Prevedello, MD
Sarah L. Jordan, MD
Enver Ozer, MD
Matthew Old, MD
Paula Mosquita Filho, MD
Claudia Kirsch, MD
Amit Agrawal, MD
Lea Detz/Piloto
Ann Marie Hargis, MD
Kangsadarn Tanjararak, MD
Smita Upadhyay, MD

GUEST FACULTY
Anna E. Conner, MD
Rice President, Neuroscience
Medical Director, Neuroscience
Aurora St. John Medical Center
Milwaukee, Wisconsin

Andrew S. Litt, MD, FAAOM
Co-Director, Barrow interdisciplinary Skull Base Program
Co-Director, Barrow Pituitary Center
Phoenix, Arizona

C. Arturo Salame, MD
Associate Professor
Otolaryngology and Head and Neck Surgery
Director, Center for Cranial Base Surgery
George Washington University
Aguadilla, Puerto Rico

EXPERTS IN CONFRONTATION
Ricardo L. Carrau, MD, FACS
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Department of Otolaryngology-Head and Neck Surgery
The James Cancer Hospital & Solove Research Institute
THE OHIO STATE UNIVERSITY COMPREHENSIVE CANCER CENTER

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Senior Lecturer, Department of Otolaryngology-Head and Neck Surgery

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Paula Mosquita Filho, MD
Enver Ozer, MD

Clinical Staff
Teck Shun Ng, MD
Amit Agrawal, MD
Enver Ozer, MD
Andrew S. Litt, MD

Staff
Smita Upadhyay, MD
Amit Agrawal, MD

Members of the Clinical Faculty and Research Staff are chosen for their excellence in service and commitment to the Mission of The James Cancer Hospital and Solove Research Institute.
AGENDA

One month before the course, we will provide all registered participants with the following lectures in video format. Participants will be responsible to watch these videos and be familiar with the material. The course will start at a level that assumes familiarity with the concepts exposed in the video lectures.

THURSDAY, May 29, 2014 – DAY 1

7:00 am Continental Breakfast
7:15 Welcome – Russell Lonser, Theodore Teknos
Course Overview – Ricardo Carrau, Bradley Otto, Daniel Prevedello
8:00 Round Table: Preoperative Planning: Diagnostic and Interventional Imaging
Eric Sauseveau, Claudia Kirsch, Daniel Prevedello
9:00 Round Table: Creation and Evolution of a Skull Base Surgery Center
C. Arturo Solares, Andrea Solomon, Anna Linn, Daniel Prevedello
Interactive Panel: Practical Approach to Imaging of the Cranial Base
Interactive Panel: Anatomy of the Cranial Nerves and Cerebral Circulation
9:45 Break
10:00 Round Table: Optimizing the Surgical Corridors and Adjunctive Techniques
Daniel Prevedello, Joe L. Amundson, Clifford Friedman
Interactive Panel: Anatomy of the Cranial Nerves and Cerebral Circulation
Interactive Panel: Functional Skull Base Surgery
11:00 Challenges in Reconstruction of the Skull Base
C. Arturo Solares, Andrea Solomon, Anna Linn, Daniel Prevedello
12:00 pm Lunch
12:30 Didactic Session: Pediatric Applications in Skull Base Surgery – Emmanuel Carvalho
What’s New in Imaging and Optical Technologies – Armin Kassam
Interactive Panel: Anatomy of the Cranial Nerves and Cerebral Circulation
Interactive Panel: Functional Skull Base Surgery
1:00 Round Table: Sagittal Plane EDA Modules I: Trans-sphenoid, Trans-sphenoid, and Trans-crista – Ricardo Carrau, Brad Otto, Daniel Prevedello
2:30 Anatomical Dissection
2:45 Round Table: Anatomical Dissection: The Nasionocephalic Flap and Trans-sphenoid Approach
Ricardo Carrau, Bradley Otto, Daniel Prevedello
Anatomical Dissection
End of Day 1
3:30 Welcome Reception
FRIDAY, May 30, 2014 – DAY 2

7:00 am Continental Breakfast
7:30 360-Degree Minimally Invasive Brain Surgery: Concepts & Practical Approach
Armin Kassam
8:15 Panel Discussion: Endovascular Approach
Ricardo Carrau, Daniel Prevedello
Commentary: Anna Linn, Ricardo Carrau, Brad Otto, Andrea Solomon, Andrea Solomon
10:00 Panel: Endoscopic skull base surgery: presentation of cases
C. Arturo Solares, Anna Linn, Ricardo Carrau, Brad Otto
12:30 Lunch
12:30 Panel Discussion: Anatomical Plane – Trans-sphenoid, Trans-sphenoid, Trans-crista
Ricardo Carrau, Brad Otto, Daniel Prevedello
2:30 Anatomical Dissection
6:15 End of Day 2
7:00 am Continental Breakfast
7:30 3-D Endoscopic Skull Base Anatomy: Coronal Plane – Daniel Prevedello
Round Table: When the First Chance is the Best and Maybe the Only Chance: Endoscopic Treatment of Malignancies and Complex Lesions
Matthew Ouel, C. Arturo Solares, Armin Kassam
Interactive Panel: Anatomy of the Cranial Nerves and Cerebral Circulation
Interactive Panel: Functional Skull Base Surgery
10:15 Break
10:45 Prevention and Management of Complications Optimizing QOL
Ricardo Carrau, C. Arturo Solares, Andrea Solomon
Interactive Panel: Anatomy of the Cranial Nerves and Cerebral Circulation
Interactive Panel: Functional Skull Base Surgery
12:00 pm Lunch
12:30 Didactic session: Pediatric Applications in Skull Base Surgery – Emmanuel Carvalho
What’s New in Imaging and Optical Technologies – Armin Kassam
Interactive Panel: Anatomy of the Cranial Nerves and Cerebral Circulation
Interactive Panel: Functional Skull Base Surgery
1:00 Round Table: Anatomical Dissection: The Nasionocephalic Flap and Trans-sphenoid Approach
Ricardo Carrau, Bradley Otto, Daniel Prevedello
Anatomical Dissection
End of Day 1
3:30 Welcome Reception

COURSE LOCATION & HOTEL ACCOMMODATIONS
Hilton Columbus at Easton
3900 Chroma Drive - Columbus, OH 43219

For hotel accommodations, call (904) 433-0010, (800) 223-6297 or (832) 445-0081 Member "Endoscopic Skull Base Surgery Course" to get a special rate of $159 per night in a double. Call 614 to get the special rate of $114. Self Parking is $10 per day. Hotel Hot Line: 614-469-5000

DIRECTIONS TO THE HOTEL FROM THE AIRPORT
www.hiltoncolumbus.com/location/exclusivemember.html

DIRECTIONS FROM CMH TO HOTEL AND EASTON TOWN CENTER

Hwy North or South to 673 East to 250 North (hwy #30 East). Left at the top of the ramp onto Eastgate, May through two lights. Take the right after second light onto Chroma Drive. Right into hotel front entrance.

AIRPORT TRANSPORT OPTIONS

Columbus Shuttles
Complimentary shuttle service operates 7 days a week from 6:00 am to 8:00 pm. The shuttle shuttle pick-up is just in front of the luggage area. Upon arrival at the airport, go to the shuttle pick-up area and call 614-500-4500 from your cell phone. Tell the operator you are transportation to Hilton Columbus Easton. The driver will be waiting for you at the curb and will give the shuttle lot.

Limousine: Minimum charge is approximately $45

Local Airport:
Port Columbus International Airport (CMF)
- Distance from hotel: 4 miles
- Drive time: 10 min.

ATTIRE
Business casual. Please bring your own clothes. We will provide disposable gowns. Dress warmly, as rooms must be kept at 66°F.

ACREDITATION STATEMENT

The Ohio State University Center for Continuing Medical Education (CCME) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA CREDIT DESIGNATION STATEMENT

The Ohio State University Center for Continuing Medical Education regards this activity for a maximum of 50.25 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This course is supported by partly educational grants from the following companies at time of press: KARL STORZ Endoscopy-America, LLC Martin Group, Medtronic, NICO Corporation, Stryker.

In accordance with the ACCME’s Essential Component #6, the Ohio State University strives to make sure this conference is accessible to all. If you have a disability that might require special accommodations, please call Academic Event Management at 805-300-9154.

CANCELLATIONS

Cancellations must be received by written notice 14 days before the course will be held. After this date, Academic Event Management reserves the right to send someone in your place. In case of cancellation, registration fees will be refunded in full. A non-refundable registration deposit of $1,500 will be required to secure your space. If you cancel your registration less than 14 days prior to the course, you will be financially liable to the registrants in the event of a cancellation. In case of circumstances relating to the health of an instructor, Academic Event Management reserves the right to cancel, discontinue or reschedule this program at any time and will assume no financial obligation to the registrants in the event of a cancellation. In case of cancellations, registrants will be notified if educational materials are sent to you. Academic Event Management reserves the right to substitute instructors, speakers or topics.

To enroll, complete and return the enrollment form below OR contact Academic Event Management at 805-300-9154 or at学术会议注册在线.

REGISTRATION

State-of-the-Air Endoscopic Skull Base Surgery • Columbus, OH
May 29-31, 2014

Tuition
$1,500 for surgeons, $1,000 for non-surgeons or persons in allied fields.

S P A C E I S L I M I T E D

Please print clearly.

ATTIRE
Business casual. Please bring your own clothes. We will provide disposable gowns. Dress warmly, as rooms must be kept at 66°F.

PAYMENT

• Check/exchange payable to: Academic Event Management
• Discover
• American Express

REGISTRATION FORM

Full Name (First, Middle, Last)
MAIL TO:

Academic Event Management
3605 N. Lake Shore Drive, #16-16
Chicago, IL 60657

Email Address

Contact Phone

Signature

INSTRUCTIONS:

1. Complete and return this form by May 18, 2014 to Academic Event Management at 3605 North Lake Shore Drive, Suite 16-16, Chicago, IL 60657.

2. Physician’s registration includes admission to all conference sessions and materials. Participants may not substitute for another participant. Participants must claim all conferences for credit.

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AGENDA
One month before the course, we will provide all registered participants with the following list of videos that will be shown in class and be available online. The course will start at a level that assumes familiarity with the concepts exposed in the videos.
Pre-course Principles of Expanded Endoscopic Endonasal Approaches
Pre-course The Sinonasal Corridor
Pre-course Anatomy of the Cranial Nerves and Cerebral Circulation (Extradural)
Pre-course Reconstruction of the Skull Base: From Free Grafting to Vascularized Flaps
Pre-course Sagittal Plane II Modules: Trans-turbinates, Trans-planum, and Trans-cribiform
Pre-course Practical Approach in Imaging of the Cranial Base
Pre-course Endonasal Approaches -- How to Get Out of Trouble (even deep, deep, deep… trouble)
Pre-course Sagittal Plane Modules II: Trans-clival, Trans-odontoid
Pre-course Endoscopic Skull Base Anatomy: The Sagittal Plane I
Round Table: Endoscopic Dissection: Principles of Expanded Endoscopic Endonasal Approaches
Round Table: Principles of Expanded Endoscopic Endonasal Approaches
Round Table: The Sinonasal Corridor
Round Table: Endoscopy of the Cranial Base -- Endoscopy of the Sinonasal Tract & Skull Base
Round Table: Practical Approach to Imaging of the Cranial Base
Panel I: Anatomical Prosection: Trans-orbital Approaches
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FRIDAY, May 30, 2014 – DAY 2
7:00 am Continental Breakfast
7:45 am Registration and Continental Breakfast
8:00 am Round Table: Preoperative Planning: Diagnostic and Interventional Imagery
9:00 am Round Table: Creative and Evolution of a Skull Base Surgery Center
9:15 am Lunch
11:00 am Challenges in Reconstruction of the Skull Base
12:00 pm Lunch
12:30 pm Round Table: Endoscopic Skull Base Anatomy: The Sagittal Plane I – Daniel Prevedello
1.00 pm Round Table: Sagittal Plane EDA Modules I: Trans-teno, Trans-planum, and Trans-cribiform – Ricardo Carrau, Bradley Otto, Daniel Prevedello
2.00 pm Round Table: Anatomical Dissection
2.30 pm Light Supper
3.30 pm Course Adjourn

For hotel accommodations, call 1-800-444-3583 (DTN/1800) or 503-445-6661 Member “Endoscopic Skull Base Surgery” Course.
Get a special rate of $157 per night tonight block. Call to get the special rate: 513-54. Safe parking at the hotel’s free. Parking is free 24 hr.

DIRECTIONS TO THE HOTEL FROM THE AIRPORT
Visit www.hiltoncolumbus.com or call 614-414-5000 for directions.

DIRECTIONS FROM CMH TO HOTEL AND EASTON
Take I-71 South to I-70 East to 250 North to exit #32 (Easton). Turn left at the ramp onto Easton Boulevard. Make two left turns. Turn right after second light onto Chagrin Drive. Right into hotel entrance.

AIRPORT TRANSPORT OPTIONS
Airport Shuttle: Complimentary shuttle service operates 7 days a week from 8 am to 10 pm. The shuttle bus picks up and drops off just outside the baggage claim area. Upon arrival at the airport, go to the shuttle pick up area and call 014-644-4000 from your cell phone. Tell the operator you need transportation to the Hilton Columbus, 3390 Chagrin Drive. The shuttle will be waiting for you and give you the ID of the shuttle.

LIMITED space is available: Please contact us ASAP.

KARL STORZ Endoscopy-America, KLS Martin Group, Medtronic, NICO Corporation, Stryker.

REGISTRATION
The Ohio State University Center for Continuing Medical Education (CCME) to provide continuing medical education for physicians.

ATTIRE
Business casual. Please bring your own coats. We will provide disposable gowns. Denim wearing is not an option.

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AMA CREDIT DESIGNATION STATEMENT
The Ohio State University Center for Continuing Medical Education designates this activity for a maximum of 35.5AMA PRA Category 1 Credits™. Physicians should only claim the credit commensurate with the extent of their participation in the activity.

CANCELLATIONS
Cancellations must be received in writing by April 15, 2014 and will be subject to a $200 processing fee. No refunds will be given after that date.

The Ohio State University Center for Continuing Medical Education reserves the right to change instructors or cancel this activity in the event of a critical faculty unavailability. In case of cancelation, registrants will be notified at least 10 days before the course.

Tuition will be refunded in full, less the $200 processing fee if your registration is cancelled in writing by April 15, 2014.

Participants will be responsible to watch these videos and be familiar with the material. The course will start at a level that assumes familiarity with the concepts exposed in the videos.

In addition, we will provide copies of the prosection videos, a dissection manual in PDF format, and references.

Although not critical, we encourage the participants to go over this material before the course.

One month before the course, we will provide all registered participants with the following list of videos in a video format. Participants will be responsible to watch these videos and be familiar with the material. The course will start at a level that assumes familiarity with the concepts exposed in the videos.

The course will be held at a level that assumes familiarity with the concepts exposed in the videos.

The course will start at a level that assumes familiarity with the concepts exposed in the videos.
## AGENDA

**Day 1 – May 29, 2014**

### 7:00 – 8:30 AM
- Continental Breakfast

### 8:30 AM – 1:00 PM
- 3D-Endoscopic Skull Base Anatomy: Cranial Plane – Ricardo Carrau
- **Round Table:** What’s the first choice in the best and meaty only chance: Endoscopic Treatment of Malignancies and Complex Lesions
  - **Speaker:** Matthew Otto, C. Arturo Solares, Andrew Little

### 1:00 – 2:45 PM
- Interactive Panel: All Faculty & Attendees
  - C. Arturo Solares, Andrew Little, Amin Kassam
- **Round Table:** Introduction to Cranial Base Anatomy
  - C. Arturo Solares, Andrew Little, Amin Kassam

### 2:45 PM – 3:00 PM
- Light Supper

### 3:00 – 6:00 PM
- **Round Table:** Transtemporal Endoscopic Approach to Intracranial Lesions
  - C. Arturo Solares, Andrew Little, Amin Kassam
- **Anatomical Dissection**

### 6:00 – 8:30 PM
- **Course Adjourn**

### 8:30 PM – 10:00 PM
- Course Dinner and Honored Guest: TBA

**Day 2 – May 30, 2014**

### 7:00 – 8:30 AM
- Continental Breakfast

### 8:30 AM – 1:00 PM
- Anatomical Prosection: Trans-orbital Approaches
  - Ricardo Carrau, Bradley Otto, Daniel Prevedello
- **Lunch**

### 1:00 – 2:45 PM
- Interactive Panel: All Faculty & Attendees
  - C. Arturo Solares, Andrew Little, Daniel Prevedello
- **Round Table:** Optimizing the Surgical Corridors and Adjunctive Techniques
  - Ricardo Carrau, Bradley Otto, Daniel Prevedello
- **Lunch**

### 2:45 PM – 3:00 PM
- Light Supper

### 3:00 – 6:00 PM
- Anatomical Prosection: Trans-sphenoidal Approaches
  - Ricardo Carrau, Bradley Otto, Daniel Prevedello
- **Anatomical Dissection**

### 6:00 – 8:00 PM
- **Course Adjourn**

### 8:00 PM – 10:00 PM
- Course Dinner and Honored Guest: TBA

**Day 3 – May 31, 2014**

### 7:00 – 8:30 AM
- Continental Breakfast

### 8:30 AM – 1:00 PM
- Anatomical Prosection: Trans-temporal Approaches
  - Ricardo Carrau, Bradley Otto, Daniel Prevedello
- **Lunch**

### 1:00 – 2:45 PM
- Interactive Panel: All Faculty & Attendees
  - C. Arturo Solares, Andrew Little, Daniel Prevedello
- **Round Table:** Endoscopic Resection of Craniopharyngiomas: Ophthalmological and Endocrinological Considerations
  - Andrew Little, Amin Kassam
  - **Speaker:** Ricardo Carrau, Bradley Otto, Daniel Prevedello

### 2:45 PM – 3:00 PM
- Light Supper

### 3:00 – 6:00 PM
- **Course Adjourn**

### 6:00 – 8:00 PM
- Course Dinner and Honored Guest: TBA

### 8:00 PM – 10:00 PM
- Course Dinner and Honored Guest: TBA

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**LOCATION & HOTEL ACCOMMODATIONS**

Hilton Columbus at Easton
3990_chagrin Drive - Columbus, OH 43219

**DIRECTIONS TO THE HOTEL FROM THE AIRPORT**


**DIRECTIONS FROM CMH TO HOTEL AND EASTON**

- North on 3rd street to OHS East to 250 North take #33 (Easton). Left at the top of the ramp onto Easton May. Through two lights. Take the right after second light onto Chagrin Drive. Right into hotel entrance.

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**AIRPORT TRANSPORT OPTIONS**

**Wilton Airport Shuttle:**

- Shuttle service operates 7 days a week from 5:30 am to 9:00 pm.
- The shuttle pick-up is at just out just past the luggage area. Upon arrival, go to the shuttle pick-up area and call 014-5-400-6000 from your cell phone. Tell the operator you need transportation to the Hilton. The driver will come to pick you up and get you to the shuttle.

**Limousine:**

- Minimum charge is approximately $45.

**ATTIRE**

Business casual. Please bring your own scrubs. Dress warmly, as rooms must be kept at 60º F.

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**REGISTRATION**

**State-of-the-Art Endoscopic Skull Base Surgery**

**FANNS IN CONGRESS**

May 29 - May 31, 2014

**TUITION**

- $5,000
- $1,500
- Didactic Only

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**PAYMENT**

- Check
- Money Order
- Electronic Funds Transfer
- Visa
- MasterCard
- Discover
- American Express

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**CANCELLATIONS**

Cancellations must be received in writing by April 15, 2014 and will be subject to a $200 processing fee. No refunds will be given after that date. Academic Event Management reserves the right to cancel, discontinue or reschedule this program at any time and will assume no liability for charges or expenses to registrants.
AGENDA

One month before the course, we will provide all registered participants with the following lectures in a video format. Participants will be responsible to watch these videos and be familiar with the material. The course will start at a level that assumes familiarity with the concepts exposed in the videos.

Welcome
• Practical Approach to Imaging of the Cranial Base – Ricardo Carrau, Andrew Little, C. Arturo Solares
• Anatomical Prosection: Trans-orbital Approaches
• Poster Columbus International Airport (CMF) – Distance from hotel: 4 mi. Drive time: 10 minutes
• 2:00 pm – 3:00 pm: Lunch
• 12:30 pm – 1:30 pm: Endoscopic Endonasal Anatomy - The Sagittal Plane II – Ricardo Carrau, Andrew Little, Amin Kassam
• 10:00 am – 11:00 am: Endoscopic Treatment of Malignancies and Complex Lesions – Ricardo Carrau, Andrew Little, C. Arturo Solares, Bradley Otto
• 8:15 am – 9:15 am: Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles and Outcomes – Andrew Little
• 6:00 am – 7:00 am: Continental Breakfast
• 7:00 am – 7:45 am: Round Table: Anatomical Prosection: Trans-clival, Trans-odontoid Odontoidectomy – Ricardo Carrau, Andrew Little, C. Arturo Solares, Bradley Otto
• 3:00 pm – 4:00 pm: Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep...) – Ricardo Carrau, Bradley Otto, Daniel Prevedello
• 10:30 am – 11:30 am: Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles and Outcomes – Andrew Little
• 7:00 am – 7:30 am: Round Table: Anatomical Basis for the Transpterygoid Approaches
• 10:45 am – 11:45 am: Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles and Outcomes – Andrew Little
• 8:30 am – 9:30 am: Course Adjourned

FRIDAY, May 23, 2014 – DAY 2
7:00 am – 7:30 am: Continental Breakfast
7:30 am – 8:15 am: 360-Degree Minimally Invasive Brain-Surgery: Concepts & Practical Approach – Ricardo Carrau
8:15 am – 9:15 am: Anatomical Prosection: Trans-sellar, Trans-planum, and Trans-cribiform Sinus – Ricardo Carrau, Andrew Little, Amin Kassam, Bradley Otto
9:15 am – 10:15 am: Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles and Outcomes – Andrew Little
10:15 am – 11:15 am: Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles and Outcomes – Andrew Little
11:15 am – 12:00 pm: Challenges in Reconstruction of the Skull Base – C. Arturo Solares, Andrew Little, Amin Kassam
12:00 pm – 1:30 pm: Lunch
12:30 pm – 1:30 pm: Endoscopie Robotic Applications in Skull Base Surgery – Enver Ozer
1:30 pm – 2:30 pm: Panel: 360-Degree Skull Base Surgery: Presentation of Cases – C. Arturo Solares, Andrew Little, Amin Kassam, Bradley Otto
2:30 pm – 3:30 pm: Anatomical Dessection
3:30 pm – 4:30 pm: Light Supper
4:30 pm – 6:30 pm: Microsurgical Reception

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May 29-May 31, 2014
Columbus, Ohio

State-of-the-Art Endoscopic Skull Base Surgery
A HANDS-ON COURSE

THE OHIO STATE UNIVERSITY COMPREHENSIVE CANCER CENTER –
JAMES CANCER HOSPITAL AND SOLove RESEARCH INSTITUTE

COURSE DESCRIPTION
Responding to the increased familiarity with endonasal endoscopic skull base surgery, we have modified the program to start at a higher level of expertise, and to promote discussions related to treatment algorithms of specific diseases. However, we recognize the value of refreshing basic concepts, and that our course caters to participants with a variety of levels of training and experience. Therefore, we will provide the participants with a series of video lectures and video-prosections to fulfill these needs. This video-lecture series will allow the participants to enjoy the benefits of both a traditional lecture-style course based on anatomic and technical concepts, and a course with a new interactive format emphasizing decision-making and disease-oriented discussions. Participants will in fact enroll in two courses, a home study course and the hands-on course without additional costs.

The course comprises:
1. Pre-course video lectures addressing the basic principles of endoscopic skull base surgery, anatomy of the sinonasal tract and skull base, and basic surgical technique and instrumentation. These will be provided to registered participants one week prior to the course, as the program will start at a level that presumes familiarity with these principles.
2. Anatomical prosections (videos will be provided one month prior to the course).
3. Laminated dissection manual (digital version will be provided one month prior to the course).
4. Sequence of complementary didactic lectures, round tables and panel discussions (open format with audience participation), 3-D anatomical reviews and hands-on cadaveric dissection.
5. Live surgery will be transmitted directly to the auditorium where the participants may interact with the surgeons and other members of the faculty.

COURSE OBJECTIVES
At the conclusion of this activity, learners should be able to:
1. Describe the anatomic relationships of the sinonasal tract, orbit and ventral skull base from the endoscopic perspective.
2. Discuss the indications and limitations of endoscopic endonasal surgery of the skull base, pituitary fossa, orbit and cranio-nasal junction.
3. Identify how to avoid and treat complications of endoscopic endonasal surgery of the skull base, pituitary fossa, orbit and cranio-nasal junction.
4. Describe the anatomic relationships and surgical exposure afforded by the transpterygoid approach.
5. Describe the relative anatomical exposures of the endonasal versus the open traditional approaches.
6. Identify how to avoid and treat complications of endoscopic skull base surgery.

COURSE DIRECTORS
Ricardo L. Carrau, MD, FACS
Bradley A. Otto, MD
Daniel M. Prevedello, MD

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THE OHIO STATE UNIVERSITY FACULTY

FACULTY
THE OHIO STATE UNIVERSITY FACULTY
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Department of Neurology

Matthew Oal, MD, Assistant Professor
Department of Otolaryngology and Neurosurgery

Drew Quas, MD, Associate Professor
Department of Otolaryngology and Neurosurgery

Eric Sauvages, MD, Associate Professor
Department of Neurosurgery

Theodore N. Reyes, MD, PhD
Department of Otolaryngology and Neurosurgery

*OSUCCC–James Columbus, Ohio

ASSOCIATE FACULTY

Clinical Fellows
Joe Chao, MD
Lee Doto/Phils, MD

Research Fellows
Lorna Budeghal, MD
Ricardo Dolci, MD
Ali Jazwinski, MD
Andrea Karganumur, MD
Edward Kerr, MD

Target Audience
Neurosurgons, otolaryngologists-head and neck surgeons and other skull base surgeons who are interested in learning endoscopic endonasal surgery of the skull base, pituitary fossa, orbit and cranio-nasal junction.

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Neurosurgons, otolaryngologists-head and neck surgeons and other skull base surgeons who are interested in learning endoscopic endonasal surgery of the skull base, pituitary fossa, orbit and cranio-nasal junction.

GUEST FACULTY

Smita Upadhyay, MD
Kangsadarn Tanjararak, MD
Teck Siang Ng, MD
Kiangpan Tepraynak, MD
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