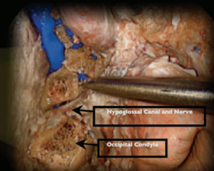
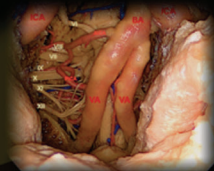
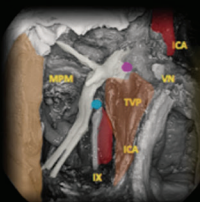
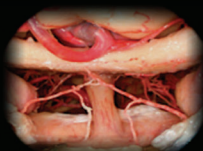
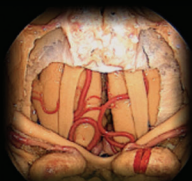


May 14-16, 2015
Columbus, Ohio



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

**EXPANDED
FORMAT**
Including
Pre-Course
Video
Lectures

COURSE DIRECTORS

Ricardo L. Carrau, MD, FACS

Bradley A. Otto, MD

Daniel M. Prevedello, MD

SPONSORED BY

The James



THE OHIO STATE UNIVERSITY
COMPREHENSIVE CANCER CENTER

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 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 (a 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 endoscopic endonasal surgery of the skull base, pituitary fossa, orbit and craniocervical junction.

FACULTY

COURSE DIRECTORS

Ricardo L. Carrau, MD, FACS

Professor

Department of Otolaryngology-
Head and Neck Surgery*

Bradley A. Otto, MD

Assistant Professor

Department of Otolaryngology-
Head and Neck Surgery*

Daniel M. Prevedello, MD

Associate Professor

Department of Neurological
Surgery*

THE OHIO STATE UNIVERSITY FACULTY

**Sergio D. Bergese, MD, Professor Clinical
Anesthesiology***

**Dukagjin Blakaj, MD, PhD, Assistant Professor,
Department of Radiation Oncology***

**Leo Ditzel Filho, MD, Department of
Neurosurgery***

**Luma Ghalib, MD, Assistant Professor, Clinical
Endocrinology, Diabetes and Metabolism***

**Michael Guiou, MD, Assistant Professor,
Department of Radiation Oncology***

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

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

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

**Enver Ozer, MD, Associate Professor
Department of Otolaryngology-Head and
Neck Surgery***

**Ciaran Powers, MD, Associate Professor
Department of Neurological Surgery***

**Luciano Prevedello, MD, Assistant Professor
Neuroradiology***

**Theodoros N. Teknos, MD, Professor
Department of Otolaryngology-Head and
Neck Surgery***

*OSUCCC—James Columbus, Ohio

ASSOCIATE FACULTY

Clinical Fellows

Raewyn Campbell, MD

Ali Jamshidi, MD

Edward Kerr, MD

Research Fellows

Ricardo Dolci, MD

Mariano Fiore, MD

Kangsadarn Tanjararak, MD

Thanakorn Thiensri, MD

Smita Upadhyay, MD

Gerival Vieira, MD

GUEST FACULTY

Richard Douglas, MD

Associate Professor of Surgery

University of Auckland

Auckland, New Zealand

Christos Georgalas, MD, PhD, MRCS,

DLO, FRCS (ORL-HNS)

Rhinologist and Skull Base Surgeon

Director, Endoscopic Skull Base

Centre Amsterdam

Amsterdam, The Netherlands

Amin B. Kassam, MD

Vice President, Neurosciences

Medical Director, Neurosurgery

Aurora St. Luke's Medical Center

Milwaukee, Wisconsin

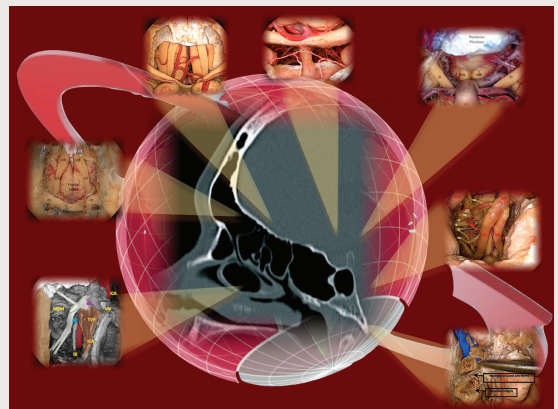
Wouter Van Furth, MD, PhD

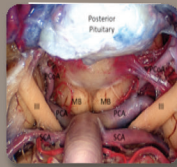
Professor of Neurosurgery

Co-director of the Endoscopic Skull Base

Centre Amsterdam

Amsterdam, The Netherlands





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.

Pre-course Principles of Expanded Endoscopic Endonasal Approaches

Pre-course The Sinonasal Corridor

Pre-course Anatomy of the Sinonasal Tract & Skull Base (Extradural)

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 EEA Modules I: Trans-sellar, Trans-planum, and Trans-cribiform

Pre-course Practical Approach to Imaging of the Cranial Base

Pre-course Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep... trouble)

Pre-course Sagittal Plane Modules II: Trans-clival, Trans-odontoid

Pre-course Trans-orbital Endonasal Approaches

Pre-course Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles and Outcomes

Pre-course Anatomical Basis for the Transpterygoid Approaches

Pre-course Coronal Plane Modules

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.

THURSDAY, MAY 14, 2015 – DAY 1

6:45 am **Registration and Continental Breakfast**

7:15 **Welcome** – *Russell Lonser, Theodoros Teknos*

Course Overview – *Ricardo Carrau, Bradley Otto, Daniel Prevedello.*

8:00 **Round Table: Preoperative Planning: Diagnostic and Interventional Imaging**
Ciaran Powers, Claudia Kirsch, Luciano Prevedello

9:00 **Round Table: Creation and Evolution of a Skull Base Surgery Center**
Richard Douglas, Christos Georgalas, Amin Kassam
Interactive Panel All Faculty & Attendees

9:45 **Break**

10:00 **Round Table: Optimizing the Surgical Corridors and Adjunctive Techniques**
Sergio Bergese, Leo Ditzel Filho, Amin Kassam
Interactive Panel All Faculty & Attendees

11:00 **Challenges in Reconstruction of the Skull Base**
Christos Georgalas, Bradley Otto, Matthew Old
Interactive Panel All Faculty & Attendees

12:00 pm **Lunch**

12:30 **3-D Endoscopic Skull Base Anatomy: The Sagittal Plane I** – *Daniel Prevedello*

1:00 **Round Table: Sellar Lesions – Cysts and Intracellular Adenomas, Extended, Endocrine for Surgeons** – *Wouter Van Furth, Daniel Prevedello, Luma Ghalib*
Interactive Panel All Faculty & Attendees

2:00 **Lab 1**

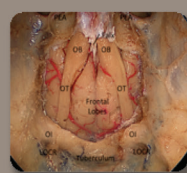
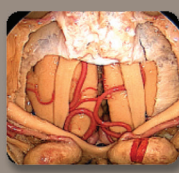
Guidelines for Dissection

2:15 **Anatomical Dissection**

2:15 **Anatomical Prosection: The Sagittal Plane: The Nasoseptal Flap and Trans-sellar Approach** (Optional-Recommended for Those Attending Lectures Only)
Ricardo Carrau, Bradley Otto, Daniel Prevedello

6:30 **End of Day 1**

7:00-8:30 **Welcome Reception**



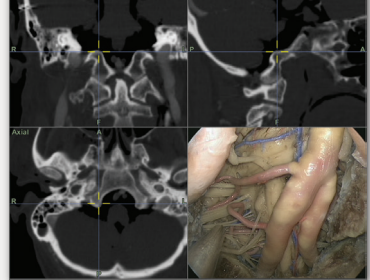
FRIDAY, MAY 15, 2015 – DAY 2

- 7:00 am **Continental Breakfast**
- 7:45 **Presentation of the Surgery Case** – *Bradley Otto, Claudia Kirsch, Luciano Prevedello*
- 8:15 **Live Surgery** – *Ricardo Carrau, Daniel Prevedello*
Commentary: Amin Kassam, Bradley Otto, Wouter Van Furth, Christos Georgalas, Richard Douglas
- 11:00 **360-Degree Minimally Invasive Brain Surgery: Concepts and Practical Approach**
Amin Kassam
- 11:30 **Lunch**
- 12:00 pm **Lunch Lecture: 3-D Endoscopic Skull Base Anatomy: The Sagittal Plane II** – *Daniel Prevedello*
- 12:30 **Round Table: Endoscopic Resection of Craniopharyngiomas: Ophthalmological and Endocrinological Considerations** – *Wouter Van Furth, Amin Kassam, Daniel Prevedello*
Interactive Panel All Faculty & Attendees
- 1:15 **Panel: Dilemmas with Meningiomas of the Anterior Cranial Base: Endonasal or Transcranial**
Moderator: *Daniel Prevedello*
Interactive Panel All Faculty & Attendees
- 2:15 **Lab 2**
Guidelines for Dissection
- 2:30 **Anatomical Dissection**
- 2:30 **Anatomical Prosection: Sagittal Plane II – Trans-planum, Trans-cribiform**
(Optional-Recommended for Those Attending Lectures Only)
Ricardo Carrau, Bradley Otto, Daniel Prevedello
- 6:15 **End of Day 2**
- 7:00-10:00 **Course Dinner**

SATURDAY, May 16, 2015 – DAY 3

- 7:00 am **Continental Breakfast**
- 7:30 **3-D Endoscopic Skull Base Anatomy: Coronal Plane** – *Daniel Prevedello*
- 8:15 **Round Table: When the First Chance is the Best and Maybe the Only Chance: Endoscopic Treatment of Malignancies and Complex Lesions**
Matthew Old, Christos Georgalas, Richard Douglas
Interactive Panel All Faculty & Attendees
- 9:15 **Round Table: Chordomas and Chondrosarcomas**
Daniel Prevedello, Ricardo Carrau
Interactive Panel All Faculty & Attendees
- 9:45 **Round Table: Adjuvant Radiation Therapy**
Michael Guiou, Dukagjin Blakaj
- 10:15 **Break**
- 10:45 **Prevention and Management of Complications Optimizing QOL**
Ricardo Carrau, Amin Kassam
Interactive Panel All Faculty & Attendees
- 11:30 **Lunch**
- 12:00 pm **New Technologies: Robotic Applications in Skull Base Surgery** – *Enver Ozer*
What's New in Imaging and Optical Technologies – *Amin Kassam*
- 12:45 **Lab 3**
Guidelines for Dissection
- 1:00 **Anatomical Dissection**
- 1:00 **Anatomical Prosection: Trans-clival, Trans-nasal Odontoideotomy**
(Optional-Recommended for Those Attending Lectures Only)
Ricardo Carrau, Bradley Otto, Daniel Prevedello
Anatomical Prosection: Trans-orbital Approaches – *Ricardo Carrau, Bradley Otto, Daniel Prevedello*
Anatomical Prosection: Transpetrous Approaches & Infratemporal Fossa and Extranasal Reconstructive Flaps – *Ricardo Carrau, Bradley Otto, Daniel Prevedello*
- 7:00 **Course Adjourns**

COURSE LOCATION & HOTEL ACCOMMODATIONS



HYATT

Hyatt Regency Columbus

350 N. High Street • Columbus, OH 43215

For hotel accommodations, call 1-888-421-1442. Mention “Endoscopic Skull Base Surgery Course” to get a special rate of \$140 per night plus taxes. Cutoff date to get the special rate is April 22, 2015.

Valet Parking at Hyatt Regency Columbus is \$25 per night with unlimited in-out privileges. Self-parking in the adjacent Underground Garage is \$16 per 24-hour period. Additional self-parking is available one block east of the hotel on Nationwide Blvd. in the East Lot at \$14 per 24-hour period.

DIRECTIONS FROM PORT COLUMBUS INT’L AIRPORT:

Departing from the terminal at the Port Columbus International Airport, you are on International Gateway Drive. Go through the traffic light at Stelzer Rd. Follow the signs to Rte. #670 West. Follow Rte. #670 West until you come to Third St./Convention Center exit. Take the Third St. exit and follow to Chestnut St. Turn Left on Chestnut St. Turn Left onto Fourth St. Turn Left onto Nationwide Blvd. Hyatt Regency Columbus is located on the Right.

AIRPORT TRANSPORT OPTIONS ATTIRE

Limousine: Minimum charge is approximately \$45

Business casual. Please bring your own scrubs. We

Taxi: Minimum charge is approximately \$25 one way

will provide disposable gowns. Dress warmly, as rooms must be kept at 60° F.

LOCAL AIRPORT

Port Columbus International Airport (CMH)

ACCREDITATION 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 designates this live activity for a maximum of 30.25 *AMA PRA Category 1 Credit(s)*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ACKNOWLEDGEMENT

This course is supported in part by educational grants from the following companies at press time:

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

In accordance with the Americans with Disabilities Act, The Ohio State University seeks to make sure this conference is accessible to all. If you have a disability that might require special accommodations, please contact Pat Fitzwater at 805-300-9154.

REGISTRATION

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

May 14-16, 2015

TUITION: \$3,000 Lectures and Lab • \$5,000 Team of 2 • \$1,500 Didactic Only

SPACE IS LIMITED! Please print clearly.

**EXPANDED
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Including
Pre-Course
Video
Lectures**

SPECIALTY

DEGREE

NAME (FIRST, MIDDLE, LAST)

ADDRESS

CITY

PROVINCE/STATE

POSTAL/ZIP CODE

(AREA CODE) BUSINESS PHONE

(AREA CODE) BUSINESS FAX

EMAIL

DIETARY RESTRICTIONS

PAYMENT

- Check enclosed payable to: Academic Event Management
 Visa MasterCard Discover American Express

Card Number

Expiration

Signature

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Pre-course Video-Lectures

Day 1-Principles of Expanded Endoscopic Endonasal Approaches

Day 1-The Sinonasal Corridor

Day 1-Anatomy of the Sinonasal Tract & Skull Base (Extradural)

Day 1-Anatomy of the Cranial Nerves and Cerebral Circulation (Extradural)

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Day 1-Sagittal Plane EEA Modules I: Trans-sellar, Trans-planum, and Trans-cribiform

Day 1-Practical Approach to Imaging of the Cranial Base

Day 1-Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep... trouble)

Day 2-Sagittal Plane Modules II: Trans-clival, Trans-odontoid

Day 3-Trans-orbital Endonasal Approaches

Day 3-Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles and Outcomes

Day 3-Anatomical Basis for the Transpterygoid Approaches

Day 3-Coronal Plane Modules

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.

CANCELLATIONS

Cancellations must be received in writing by April 1, 2015 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 financial obligation to the registrants in the event of a cancellation. In case of cancellation, registration fees will be refunded in full.

Send completed enrollment form to: **Academic Event Management**

ONLINE

www.academiceventmanagement.com

PHONE

805.300.9154

FAX

805.494.1103

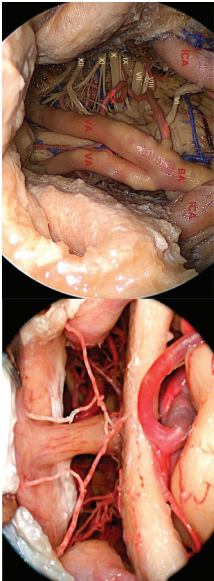
MAIL

1396 Rancho Lane
Thousand Oaks, CA 91362





Pat Fitzwater
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Thousand Oaks, CA 91362



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