

**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

Columbus, Ohio

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.

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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

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COURSE DIRECTORS

Ricardo L. Carrau, MD

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Head & Neck Surgery
OSUCCC - James
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Dukagjin Blakaj, MD, PhD

Associate Professor

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Raymond I. Cho, MD, FACS

Clinical Professor

Ophthalmology*

Luma Ghalib, MD

Assistant Professor

Clinical Endocrinology, Diabetes and
Metabolism*

Kathleen Kelly, MD

Assistant Professor

Department of Otolaryngology-
Head & Neck Surgery*

Russell R. Lonser, MD

Professor and Chair

Department of Neurological Surgery*

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Associate Professor

Neuroradiology*

Demicha Rankin, MD

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THE OHIO STATE UNIVERSITY FACULTY

James Rocco, MD, PhD, FACS

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The John and Mary Alford Chair of Head and
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Patrick C. Walz, MD

Assistant Professor

Department of Otolaryngology-Head and
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Patrick Youssef, MD

Assistant Professor

Department of Neurological Surgery*

***OSUCCC–James Columbus, Ohio**

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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.

<i>Pre-course</i>	Principles of Expanded Endoscopic Endonasal Approaches
<i>Pre-course</i>	The Sinonasal Corridor
<i>Pre-course</i>	Anatomy of the Sinonasal Tract & Skull Base (Extradural)
<i>Pre-course</i>	Anatomy of the Cranial Nerves and Cerebral Circulation (Extradural)
<i>Pre-course</i>	Reconstruction of the Skull Base: From Free Grafting to Vascularized Flaps
<i>Pre-course</i>	Sagittal Plane EEA Modules I: Trans-sellar, Trans-planum, and Trans-cribiform
<i>Pre-course</i>	Practical Approach to Imaging of the Cranial Base
<i>Pre-course</i>	Endovascular Approach: How I can get you out of trouble (Even deep, deep, deep...trouble)
<i>Pre-course</i>	Sagittal Plane Modules II: Trans-clival, Trans-odontoid
<i>Pre-course</i>	Trans-orbital Endonasal Approaches <i>Bradley Otto</i>
<i>Pre-course</i>	Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles and Outcomes <i>Matthew Old</i>
<i>Pre-course</i>	Anatomical Basis for the Transpterygoid Approaches <i>Ricardo Carrau</i>
<i>Pre-course</i>	Coronal Plane Modules <i>Daniel Prevedello</i>

In addition, we will provide copies of the prosection videos, a dissection manual in PDF format, and references. We encourage the participants to go over this material before the course.

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Thursday, DAY 1 – May 19, 2022

- 6:30 AM **Transportation to the James Auditorium**
Marriott Columbus University Area Hotel
3100 Olentangy River Road, Columbus, OH
Meet in Hotel Lobby
- 6:45 **REGISTRATION & CONTINENTAL BREAKFAST**
James Auditorium
The James Cancer Hospital
(Conference level floor) Wasserstrom
460 W 10th Ave, Columbus, Ohio
- 7:15 **Welcome**
Russell Lonser
James Rocco
Course Overview
Ricardo Carrau, Bradley Otto, Daniel Prevedello, Douglas Hardesty,
Kyle VanKoevering
- 7:30 **Round Table:**
Preoperative Planning: Diagnostic and Interventional Imaging
Patrick Youssef, Luciano Prevedello
- 9:00 **Round Table:**
Optimizing the Surgical Corridors and Adjunctive Technology
Demicha Rankin, Kathleen Kelly, Patrick Walz
Interactive Panel All Faculty & Attendees
- 10:00 **BREAK**
James Auditorium Lobby
- 10:30 **Round Table: Sellar Lesions**
Cysts And Intrасellar Adenomas, Extended Approaches, Endocrine for Surgeons
Luma Ghalib, Kyle VanKoevering, Douglas Hardesty
Interactive Panel All Faculty & Attendees
- 12:15 PM **LUNCH**
James Auditorium Lobby

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- 12:45 **Presentation of The Case**
Bradley Otto, Luciano Prevedello
- 1:00 **Live Surgery**
Ricardo Carrau, Daniel Prevedello
Commentary:
Bradley Otto, Douglas Hardesty, Kathleen Kelly, Kyle VanKoevering
- 6:30 **End of Day 1**
- 7:00-8:30 **Welcome Reception**
Marriott Columbus University Area Hotel
3100 Olentangy River Road, Columbus, OH

Friday, DAY 2 – May 20, 2022

- 7:00 AM **CONTINENTAL BREAKFAST AND EXHIBITS**
Marriott Columbus University Area Hotel
3100 Olentangy River Road, Columbus, OH
- 7:45 **3-D Endoscopic Skull Base Anatomy: The Sagittal Plane I**
Daniel Prevedello
- 8:30 **Challenges in Reconstruction of the Skull Base**
Bradley Otto, Patrick Walz
Interactive Panel All Faculty & Attendees
- 9:30 **Round Table:**
Endoscopic Resection of Craniopharyngiomas: Ophthalmological and Endocrinological Considerations
Raymond Cho, Douglas Hardesty
Interactive Panel All Faculty & Attendees
- 10:30 **3-D Endoscopic Skull Base Anatomy: The Sagittal Plane II**
Daniel Prevedello

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- 11:45 **LUNCH AND EXHIBITS**
- 12:30 PM **Transportation to the Lab**
Meet in Marriott Hotel Lobby
- 1:00 **Anatomical Dissection - and
Surgical Simulation Models for ICA Injury, CSF leaks, Pediatric/Non-pneumatized
Sphenoid - Kyle VanKoeveering, Patrick Walz, Fellows**
Wexner Medical Center Surgical Skills Lab
2835 Fred Taylor Drive, Suite 3230, Columbus, OH
- 6:15 **End of Day 2**
- 7:00-10:00 **Course Dinner**
Hofbräuhaus
800 Goodale Blvd., Columbus, OH
*Transportation will be provided for those staying at the Marriott

Saturday, DAY 3 – May 21, 2022

- 7:00 AM **CONTINENTAL BREAKFAST AND EXHIBITS**
Marriott Columbus University Area Hotel
3100 Olentangy River Road, Columbus, OH
- 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**
Raymond Cho, Ricardo Carrau
Interactive Panel All Faculty & Attendees
- 9:15 **Round Table:**
Chordomas and Chondrosarcomas
Daniel Prevedello
Interactive Panel All Faculty & Attendees

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- 10:00 **BREAK AND EXHIBITS**
- 10:20 **Round Table: Adjuvant Radiation Therapy**
Dukagjin Blakaj, Joshua Palmer
- 11:00 **Prevention and Management of Complications & Optimizing QOL**
Ricardo Carrau
Interactive Panel All Faculty & Attendees
- 11:30 **LUNCH AND EXHIBITS**
- 12:00PM **Panel:**
**Dilemmas With Meningiomas of The Anterior Cranial Base:
Endonasal or Transcranial**
Moderator: Daniel Prevedello
Interactive Panel All Faculty & Attendees
- 12:45 **Transportation to the Lab**
Meet in Marriott Hotel Lobby
- 1:00 **Anatomical Dissection - and
Surgical Simulation Models for ICA Injury, CSF leaks, Pediatric/Non-pneumatized
Sphenoid - Kyle VanKoevinger, Patrick Walz, Fellows**
Wexner Medical Center Surgical Skills Lab
2835 Fred Taylor Drive, Suite 3230, Columbus, OH
- 7:00 **End of Day 3 – Course Adjourns**

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COURSE LOCATIONS

Day 1 – James Auditorium*

The James Cancer Hospital
(Conference level floor) Wasserstrom
460 W 10th Ave, Columbus, Ohio 43210

Day 2 and 3 - Morning - Lectures, Exhibits and Meals*

Marriott Columbus University Area Hotel
3100 Olentangy River Road
Columbus, OH 43202

Day 2 and 3 – Afternoon – Lab*

Wexner Medical Center Surgical Skills Lab
2835 Fred Taylor Drive, Suite 3230, Columbus, OH 43202-1552

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