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, wrote recent lectures and hands-on instruction to allow participants to engage and benefit from both training paradigms. This course was designed for individuals who have completed a comprehensive basic course in endoscopic skull base surgery at an intermediate level of expertise. The course focuses on current and advanced surgical techniques, surgical approaches, and clinical decision-making in endoscopic skull base surgery.

TARGET AUDIENCE
Neurosurgeons, otolaryngologists-head and neck surgeons, and other skull base surgeons who are interested in learning endonasal endoscopic skull base surgery.

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 skull base surgery of the skull base, pituitary fossa, orbit, and craniocervical junction
3. Identify how to avoid and treat complications of endoscopic skull base surgery
4. Describe the anatomic relationships and surgical exposure afforded by the transenostal approach
5. Identify how to avoid and treat complications of endonasal endoscopic skull base surgery

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
Assistant Professor
Department of Neurological Surgery

THE OHIO STATE UNIVERSITY FACULTY
Sergio D. Bergese, MD, Professor Otolaryngology*
Dukhing Biklo, MD, PhD, Assistant Professor
Department of Radiation Oncology*
Lee Ditto-Flinn, MD, Department of Neurosurgery*
Lars-Erik Olofsson, MD, Assistant Professor
Clinical Endocrinology, Diabetes and Metabolism*
Michael Gazi, MD, Assistant Professor
Department of Radiation Oncology*
Claudia Kinch, MD, Associate Professor
Neurosurgery and Otolaryngology*
Russell R. Lassen, MD, Professor and Chair
Department of Neurological Surgery

ASSOCIATE FACULTY
Clinical Fellows
Reway Campbell, MD
Ali Jamshidi, MD
Edward Kwon, MD

Research Fellows
Ricardo Dolci, MD
Smita Upadhyay, MD
Thanakorn Thiensri, MD

Guest Faculty
Michael Mayes, MD, PhD
Professor/Head, Head and Neck Cancer Center
Department of Otolaryngology-Head and Neck Surgery
Medical University of Graz
Austria

René Diehl, MD
Head, FRCS(Eng), FRCS(Corp), FRCS(Ed), FRCS(Glasg), FRCS(Ed), FRCS(Corp), FRCS(Glasg)
Endoscopic Skull Base Surgery Consultant
Interdisciplinary Skull Base Group
Professor Extraordinary and Senior Excellence Faculty
Medical University Graz
Austria

Anton II. Karavan, MD
WHO President, Neuroscience
Medical Director, Neuroscience
Austria

Aurora St. Luke’s Medical Center
Muskegon, Wisconsin

The James Foundation
THE OHIO UNIVERSITY FACULTY
COURSE DIRECTORS
Ricardo L. Carrau, MD, FACS
Bradley A. Otto, MD
Daniel M. Prevedello, MD
The Ohio State University Comprehensive Cancer Center – James Cancer Hospital and Solove Research Institute

SPONSORED BY
The James Foundation
THE OHIO STATE UNIVERSITY
COURSES IN ENDOSCOPIC SKULL BASE SURGERY
A HANDS-ON COURSE
October 8-10, 2015 Columbus, Ohio

HYATT REGENCY COLUMBUS
515 North Front Street
Columbus, Ohio 43215

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

COURSES IN ENDOSCOPIC SKULL BASE SURGERY
A HANDS-ON COURSE
October 8-10, 2015 Columbus, Ohio

HYATT REGENCY COLUMBUS
515 North Front Street
Columbus, Ohio 43215

THE OHIO STATE UNIVERSITY COMPREHENSIVE CANCER CENTER – JAMES CANCER HOSPITAL AND SOLOVE RESEARCH INSTITUTE
State-of-the-Art Endoscopic Skull Base Surgery
A HANDS-ON COURSE

THE OHIO STATE UNIVERSITY FACULTY

- Ricardo L. Caruso, MD, FACS
- Bradley A. Otto, MD
- Daniel M. Prevedello, MD

FACULTY

- Sergio D. Berguin, MD, Professor Clinical Anatomy
- Dukagjin Blloku, MD, PhD, Assistant Professor, Department of Radiation Oncology
- Lee Attie-Hoff, MD, Department of Neurosurgery
- Laura Dralle, MD, Assistant Professor, Clinical Endocrinology, Diabetes and Metabolism
- Michael Gaffe, Assistant Professor, Department of Radiation Oncology
- Claudia Kinch, MD, Associate Professor of Neuroradiology and Endocrinology
- Russell R. Lasser, MD, Professor and Chair, Department of Neurosurgery

GUEST FACULTY

- Michael Milroy, MD, PhD
- Dukagjin Blloku, MD, PhD
- Enver Ozer, MD

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.

THE OHIO STATE UNIVERSITY FACULTY

- Ricardo L. Caruso, MD, FACS
- Bradley A. Otto, MD
- Daniel M. Prevedello, MD

FACULTY

- Sergio D. Berguin, MD, Professor Clinical Anatomy
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- Russell R. Lasser, MD, Professor and Chair, Department of Neurosurgery

GUEST FACULTY

- Michael Milroy, MD, PhD
- Dukagjin Blloku, MD, PhD
- Enver Ozer, MD

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.

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, with the rest of the course covering a variety of specific topics. We have reorganized the structure of the course to be more efficient and informative, and have expanded the didactic lectures to provide the participants with a series of video lectures and video-prosections to fulfill their 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 novel 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 cranial base from the endoscopic perspective.
2. Discuss the indications and limitations of endoscopic endonasal surgery of the skull base, pituitary fossa, orbit and cranial base.
3. Identify how to avoid and treat complications of endoscopic endonasal surgery of the skull base, pituitary fossa, orbit and cranial base.
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 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,而又 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 discussion-making and disease-oriented discussions. Participants will find enrol in two courses, a pre-course video-lecture series 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 techniques 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).
5. Live surgery will be transmitted directly to the auditorium where the participants may interact with the surgeons and other members of the faculty.

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 techniques 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).
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 skull base 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 skull base surgery of the skull base, pituitary fossa, orbit and craniocervical junction.
AGENDA
One month before this course, we will provide all registered participants with the following lectures in a video format. Participants are encouraged to watch these videos and be familiar with the material. The course will be set at a level that assures familiarity with the concepts exposed in the videos.

09:00 am Continental Breakfast
09:30 am Course Introduction
09:45 am Break
09:50 am Day 1-Sagittal Plane EEA Modules I: Trans-sellar, Trans-planum, and Trans-cribiform
10:45 am Day 1-Practical Approach to Imaging of the Cranial Base
11:00 am Day 1-The Sinonasal Corridor
11:30 am Day 1-Reconstruction of the Skull Base: From Free Grafting to Vascularized Flaps
12:00 pm Lunch
12:30 pm Day 2-3D Endoscopic Skull Base Anatomy: The Sagittal Plane – Daniel Prevedello
01:00 pm Day 2-Practical Approach for Those Attending Lectures Only
01:30 pm Day 2-Trans-orbital Endonasal Approaches
1:30 pm Day 2-Endoscopic Anterior Skull Base Resection for Troublesome (even deep, deep, deep… trouble)
2:30 pm Day 2-Trans-orbital Endonasal Approaches
2:45 pm Day 2-Endoscopic Anterior Skull Base Resection for Troublesome (even deep, deep, deep… trouble)
5:00 pm Day 2-Round Table: Chordomas and Chondrosarcomas
5:15 pm Day 2-Round Table: Endoscopic Resection of Craniopharyngiomas: Ophthalmological and Endocrinological Considerations
6:30 pm Day 2-Round Table: Creation and Evolution of a Skull Base Surgery Center
7:00 pm Day 2-Round Table: Adjuvant Radiation Therapy

COURSE LOCATION
Columbus Convention Center
400 North High Street-Central Hall
Columbus, OH 43215
614-628-2871

HOTEL ACCOMMODATIONS
HYATT
Hyatt Regency Columbus
350 North High Street - Columbus, OH 43240

FLIGHT INFORMATION
Port Columbus International Airport (CMH)
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 arrive to I-270 South Center. Take the I-270 South Center exit and follow north on Rte. #670 West. Follow Rte. #670 West until you arrive at the hotel. The hotel is located on the Right.

PAYMENT
Check/credit card payable to Academic Event Management

REGISTRATION
State-of-the-Art Endoscopic Skull Base Surgery
OCTOBER 8, 2015
Tuition $1000.00 Lab Fee & Materials $1600.00
Total $2600.00 Each participant will receive a Deluxe Only Space is Limited! Please print clearly.

CANCELLATIONS
Refunds will be given up to 90 days prior to the course. Full refund will be given if the course is cancelled. There is no financial obligation to the registrants in the event of a cancellation. In case of cancellation, registration fees will be refunded in full.

STARK UNIVERSITY RICHFIELD CAMPUS
The Ohio State University
60 West Main Street
Richfield, OH 44286-0001

ENDOSCOPIC SKULL BASE SURGERY IN THE 21ST CENTURY
Day 4

SUNDAY, OCTOBER 11, 2015
DAY 4
7:00 am Continental Breakfast
7:30 am Welcome – Radiologist/Therapist
8:00 am Round Table: Integrative Planning: Neurosurgical and Neuroradiological Concepts
9:00 am Round Table: Creation and Evolution of a Skull Base Surgery Center
9:15 am Round Table: Chondromas and Chondrosarcomas
9:45 am Round Table: Adjunct Radiation Therapy
10:15 am Round Table: Prevention and Management of Complications Optimizing Postoperative Care and QOL
11:00 am Day 4-Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
11:30 am Day 4-Anatomy of the Cranial Nerves and Cerebral Circulation (Extradural)
12:00 pm Lunch
1:00 pm Day 4-Anatomy of the Sinonasal Tract & Skull Base (Extradural)
2:00 pm Day 4-Practical Approach to Imaging of the Cranial Base
3:00 pm Day 4-New Technologies: Robotic Applications in Skull Base Surgery – cursos
6:15 pm End of Day 4

SUNDAY, OCTOBER 12, 2015
DAY 5
7:00 am Continental Breakfast
7:30 am Welcome – Radiologist/Therapist
8:00 am Round Table: Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
9:00 am Round Table: Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
9:15 am Round Table: Trans-orbital Endonasal Approaches
9:45 am Round Table: Endoscopic Resection of Craniopharyngiomas: Ophthalmological and Endocrinological Considerations
10:15 am Round Table: Prevention and Management of Complications Optimizing Postoperative Care and QOL
11:00 am Day 5-Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
11:30 am Day 5-Anatomy of the Sinonasal Tract & Skull Base (Extradural)
12:00 pm Lunch
1:00 pm Day 5-Anatomy of the Sinonasal Corridor
2:00 pm Day 5-Practical Approach to Imaging of the Cranial Base
3:00 pm Day 5-New Technologies: Robotic Applications in Skull Base Surgery – cursos
6:15 pm End of Day 5

SUNDAY, OCTOBER 13, 2015
DAY 6
7:00 am Continental Breakfast
7:30 am Welcome – Radiologist/Therapist
8:00 am Round Table: Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
9:00 am Round Table: Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
9:15 am Round Table: Trans-orbital Endonasal Approaches
9:45 am Round Table: Endoscopic Resection of Craniopharyngiomas: Ophthalmological and Endocrinological Considerations
10:15 am Round Table: Prevention and Management of Complications Optimizing Postoperative Care and QOL
11:00 am Day 6-Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
11:30 am Day 6-Anatomy of the Sinonasal Tract & Skull Base (Extradural)
12:00 pm Lunch
1:00 pm Day 6-Anatomy of the Sinonasal Corridor
2:00 pm Day 6-Practical Approach to Imaging of the Cranial Base
3:00 pm Day 6-New Technologies: Robotic Applications in Skull Base Surgery – cursos
6:15 pm End of Day 6

SUNDAY, OCTOBER 14, 2015
DAY 7
7:00 am Continental Breakfast
7:30 am Welcome – Radiologist/Therapist
8:00 am Round Table: Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
9:00 am Round Table: Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
9:15 am Round Table: Trans-orbital Endonasal Approaches
9:45 am Round Table: Endoscopic Resection of Craniopharyngiomas: Ophthalmological and Endocrinological Considerations
10:15 am Round Table: Prevention and Management of Complications Optimizing Postoperative Care and QOL
11:00 am Day 7-Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
11:30 am Day 7-Anatomy of the Sinonasal Tract & Skull Base (Extradural)
12:00 pm Lunch
1:00 pm Day 7-Anatomy of the Sinonasal Corridor
2:00 pm Day 7-Practical Approach to Imaging of the Cranial Base
3:00 pm Day 7-New Technologies: Robotic Applications in Skull Base Surgery – cursos
6:15 pm End of Day 7

ARRIVAL DIRECTIONS
Day 1-Reconstruction of the Skull Base: From Free Grafting to Vascularized Flaps
3:00 pm Day 7-Trans-orbital Endonasal Approaches
3:15 pm Day 7-Round Table: Chordomas and Chondrosarcomas
4:00 pm Day 7-Round Table: Endoscopic Resection of Craniopharyngiomas: Ophthalmological and Endocrinological Considerations
4:15 pm Day 7-Round Table: Prevention and Management of Complications Optimizing Postoperative Care and QOL
4:30 pm Day 7-Round Table: Adjuvant Radiation Therapy
5:00 pm Day 7-Round Table: Creation and Evolution of a Skull Base Surgery Center
5:15 pm Day 7-Round Table: Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
5:30 pm Day 7-Round Table: Creation and Evolution of a Skull Base Surgery Center
6:30 pm Day 7-Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
7:00 pm Day 7-Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
8:00 pm Day 7-Endovascular Approach: How I Can Get You Out of Trouble (even deep, deep, deep… trouble)
AGENDA
One month before this course, we will provide all registered participants with the following lectures in a video format. Participants are recommended 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 Canal
Pre-course Anatomy of the Cranial Nerves and Cerebral Circulation (Extradural)
Pre-course Reconstruction of the Neural and Skull Base: From Base Pre-Coming to Visulized Intracranial}
Pre-course Sagittal Plane II: Trans-sellar, Trans-planum, and Trans-cribiform
Pre-course Practical Approach to Dissection of the Cranial Base
Pre-course Endoscopic Approach: How I Can Get You Out of Trouble (even deep, deep, deep... trouble)
Pre-course Sagittal Plane Module II: Trans-omen, Trans-odontoid
Pre-course Endoscopic Anatomical Dissection for Safe Surgical-Malposition-Principles and Outcomes
Pre-course Anatomical Basis for the Transpedicular Approaches
Pre-course Coronal Plane Modules

PRE-COURSE VIDEO-LECTURES
One month before the course, we will provide all registered participants with the following in-video lectures, a dissection manual in PDF format, and references. Although not critical, we encourage the participants to go over this material before the course.

- Principles of Expanded Endoscopic Endonasal Approaches
- The Sinonasal Canal
- Anatomy of the Cranial Nerves and Cerebral Circulation (Extradural)
- Reconstruction of the Neural and Skull Base: From Base Pre-Coming to Visulized Intracranial
- Sagittal Plane II: Trans-sellar, Trans-planum, and Trans-cribiform
- Practical Approach to Dissection of the Cranial Base
- Endoscopic Approach: How I Can Get You Out of Trouble (even deep, deep, deep... trouble)
- Sagittal Plane Module II: Trans-omen, Trans-odontoid
- Endoscopic Anatomical Dissection for Safe Surgical-Malposition-Principles and Outcomes
- Anatomical Basis for the Transpedicular Approaches
- Coronal Plane Modules

 arrived at Chestnut St. Turn left onto Fourth St. Turn left onto Nationwide Blvd. Hyatt Regency Columbus is east of the hotel on Nationwide Blvd. in the East Lot at $14 per 24-hour period.

HOTEL ACCOMMODATIONS
Hyatt Regency Columbus
350 N. High Street - Columbus, OH 43240
614-227-2071

For hotel accommodations, call 800-445-1966. Mention “Endoscopic Skull Base Surgery Course” to reserve a special rate of $199 per night plus tax. Once full, additional information will be made available.

DIRECTIONS FROM PORT COLUMBUS INT’L AIRPORT TO HOTEL
Departing from the terminal at the Port Columbus International Airport, you are on International Gateway Drive. Go through the traffic lights. Take the right exit to 2070 West. Follow the signs to I-70 West until you arrive to I-70 East. Turn right onto Nationwide Blvd. and follow it to the first right onto Fourth St. Turn left onto Chestnut St. Turn right onto National Ave. Hyatt Regency Columbus is located on the right.

FLIGHT INFORMATION
Flight Arrival: 6:00 am Flight Departure: 8:00 pm

ACCOMMODATION CREDENTIALS
The Ohio State University Center for Continuing Medical Education designates this live activity for a maximum of 31 AMA PRA Category 1 Credit.

AMA CREDIT DESIGNATION
The Ohio State University Center for Continuing Medical Education designates this live activity for a maximum of 31 AMA PRA Category 1 Credit.

ACKNOWLEDGEMENTS
This course is supported by educational grants from the following companies at press time: KENE, STORZ Endoscopy-America, KLS Martin Group, Medtronic, MTC Corporation, Stryker. In accordance with the standards established by the Institute of Medicine, the Ohio State University intends to make this conference accessible to all. If you have a disability that requires special accommodations, please contact us at 800-399-1200.

CANCELLATIONS
Cancellation deadline is September 10, 2015. Registrants must email a request to cancel to Event Management. In case of cancellation, registration fees will be refunded in full. A 10% registration fee will be deducted from cancellations after September 10, 2015. There will be no refunds after this 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.
AGENDA

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

Monday Registration and Continental Breakfast
7:00 am – 5:30 pm
6:15  End of Day 2
9:00 am – 7:00 pm

Welcome – Ricardo Carrau, Bradley Otto, Matthew Old
1:00 pm – 2:00 pm
1:00 pm – 2:00 pm

Pre-course Video Lectures
Day 1-Sagittal Plane EEA Modules I: Trans-sellar, Trans-planum, and Trans-cribiform
Day 1-Reconstruction of the Skull Base: From Free Flap/t/ing to Vascularized Flaps
Day 1-The Sinonasal Corridor
Day 1-Endovascular Approach: How I Can Get You Out of Trouble
Day 1-Practical Approach to Imaging of the Cranial Base
Day 1-Practical Approach to the Anterior Cranial Base: Endonasal to Transcranial
Moderator: Daniel Prevedello

Day 1: Endoscopic Treatment of Malignancies and Complex Lesions
Moderator: Sergio Bergese, Leo Ditzel Filho, Amin Kassam

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

Day 2-Anatomical Dissection
Pre-course Dissection (Day 1) – Michael Mokry, Amin Kassam, Daniel Prevedello

Day 2-Round Table: Prevention and Management of Complications Optimizing QOL
Moderator: Martin Guiou, Dukagjin Blakaj

Day 2-Interactive Panel All Faculty & Attendees
Day 2-Interactive Panel All Faculty & Attendees

Day 2-Anatomical Prosection: Sagittal Plane II – Trans-planum, Trans-cribiform

Day 2-Interactive Panel All Faculty & Attendees

Day 2-Interactive Panel All Faculty & Attendees

Day 2-Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles

Day 2-Local Flap for Skull Base Defects

Day 2-Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles

Day 2-Lunch Lecture: 3-D Endoscopic Skull Base Anatomy: The Sagittal Plane – Daniel Prevedello
12:30 pm

Day 2-Endovascular Approach: How I Can Get You Out of Trouble
Moderator: Heinz Stammberger, Bradley Otto, Daniel Prevedello

Day 2-Panel: Dilemmas with Meningiomas of the Anterior Cranial Base: Endonasal or Transcranial
Panel: Dilemmas with Meningiomas of the Anterior Cranial Base: Endonasal or Transcranial

Day 2-Commentary: Amin Kassam, Bradley Otto, Heinz Stammberger, Michael Mokry

Day 2-Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles

Day 2-Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles

Day 2-Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles

Day 2-Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles

Day 2-Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles

Day 2-Endoscopic Anterior Skull Base Resection for Sinonasal Malignancy: Principles
**AGENDA**

One month before the course, we will provide all registered participants with the following video lectures in a DVD format. Participants will be responsible to watch these videos and be familiar with the material. The course will start at 7:00 am on the day of the course.

**Pre-Course**
- Principles of Endoscopic Skull Base Surgery
- Anatomy of the Sinonasal Tract & Skull Base
- Anatomy of the Cranial Nerves and Cerebral Circulation

**Day 1**
- 8:00 am Continental Breakfast
- 9:15 am Anatomical Basis for the Transpterygoid Approaches
- 10:00 am Round Table: Optimizing the Surgical Corridors and Adjunctive Techniques
- 12:00 pm Lunch
- 1:15 pm Endocrinological Considerations
- 2:30 pm Guidelines for Dissection
- 2:45 pm Virtual Case Discussion: Anatomical Prosection: Sagittal Plane II – Trans-planum, Trans-cribiform

**Day 2**
- 9:15 am Anatomy of the Cranial Nerves and Cerebral Circulation (Extradural)
- 10:45 am New Technologies: Robotic Applications in Skull Base Surgery
- 11:30 am Lunch
- 1:00 pm Guidelines for Dissection
- 2:15 pm Anatomical Prosection: Trans-clival, Trans-odontoid Obstructive Obstruction (Optional for Those Attending Lectures Only)
- 3:00 pm Anatomical Prosection: Trans-sellar, Trans-planum, and Trans-cribiform

**Day 3**
- 9:45 am Break
- 10:00 am Video Lecture: 1: The Sinonasal Corridor
- 11:00 am Lunch
- 1:00 pm Anatomical Prosection: Trans-sphenoid
- 2:00 pm Guideline for Dissection
- 3:00 pm Anatomical Prosection: Trans-orbital Approaches
- 4:00 pm Interactive Panel All Faculty & Attendees

**LOCAL AIRPORT**
- Port Columbus International Airport (CMH)

**DIRECTIONS FROM PORT COLUMBUS INT’L AIRPORT:**

From Port Columbus International Airport, you are on International Gateway. Take the connector to the left onto Chestnut St. Turn Left onto Fourth St. Turn Left onto Nationwide Blvd. Hyatt Regency Columbus is located on the Right.

**PAYMENT**
- Check/charged payable to Academic Event Management
- Visa
- MasterCard
- Discover
- American Express

**REGISTRATION**
- Online at www.academiceventmanagement.com
- Mail: 8000 Southland Drive, Suite 200, Thousand Oaks, CA 91362
- Fax: 805-494-1103

**ACCOMMODATION STATEMENT**
- The Ohio State University Center for Continuing Medical Education (CME) 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 programs in this activity are a maximum of 35 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 prices shown: Karl Storz Endoscopy-America, KLS Martin Group, Medtronic, NICO Corporation, Stryker.

**CANCELLATION**

All cancellations must be received by October 1, 2015, and will be subject to a $250 processing fee. After that date, no cancellations will be accepted. Once the course has started, there will be no refunds for any reason.

**Refunds**

Refunds for attendees who are not able to attend the course will be granted to those who notify us in writing at least 2 weeks prior to the scheduled course date. Refunds will not be issued for cancellations that occur less than 2 weeks before the scheduled course date.

**CME**

This course is designed to meet the criteria for 35 Category 1 AMA PRA CME Credits™. There is a minimum charge of approximately $45 for Text: Minimum charge is approximately $25 or $25 as cost to be charged.

**KARL STORZ ENDOSCOPY-AMERICA, KLS MARTIN GROUP, MEDTRONIC, NICO CORPORATION, STRYKER.**
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, with live surgery and interactive sessions. Therefore, we will provide the participants with a series of video lectures and video-prosections to fulfill these needs. The video lectures series will allow the participants to enjoy the benefits of both a traditional lecture style course based on anatomical and technical concepts, and a course with a new interactive format emphasizing decision-making and disease-oriented discussions. Participants will participate 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 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, primary focus on endoscopic endonasal surgery of the posterior fossa, orbit and craniocervical junction
3. Identify how to avoid and treat complications of endoscopic endonasal surgery of the skull base, primary focus on endoscopic endonasal surgery of the posterior 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, primary focus on endoscopic endonasal surgery of the posterior fossa, orbit and craniocervical junction.

FACULTY

COURSE DIRECTORS
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Assistant Professor
Department of Neurological Surgery

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