The Mount Sinai Health System is very excited to announce its inaugural annual anterior and lateral skull base dissection course hosted by the departments of Otolaryngology-Head and Neck Surgery and Neurosurgery. We will be hosting otolaryngologists and neurosurgeons in person from the United States as well as the international community.

This course is a comprehensive review with hands-on training of skull base open and endoscopic approaches. We will be performing a variety of lateral as well as anterior skull base approaches (transcochlear, translabyrinthine, middle fossa, retrosigmoid craniotomies, infratemporal fossa dissection, transnasal anterior cranial base dissection) to offer a thorough assessment around surgical treatment of skull base pathologies.
Course Co-Directors:

Joshua Bederson, MD
Leonard I. Malis, MD/Corinne and Joseph Graber
Professor and Chairman
Department of Neurosurgery
The Icahn School of Medicine at Mount Sinai

Eric M. Genden, MD, MHA, FACS
Isidore Friesner Professor and Chairman
Department of Otolaryngology-Head and Neck Surgery
Senior Associate Dean for Clinical Affairs
The Icahn School of Medicine at Mount Sinai

Alfred Iloreta, MD
Assistant Professor
Department of Neurosurgery and
Department of Otolaryngology
The Icahn School of Medicine at Mount Sinai

Raj Shrivastava, MD
Professor
Department of Neurosurgery and
Department of Otolaryngology
The Icahn School of Medicine at Mount Sinai
Vice Chair for Clinical Affairs for the Department of Neurosurgery
at the Mount Sinai Health System

George Wanna, MD, FACS
Professor and Executive Vice Chairman
Department of Otolaryngology–Head and Neck Surgery
Professor of Neurosurgery
The Icahn School of Medicine at Mount Sinai

Course Faculty:

Maura K. Cosetti, MD
Associate Professor
Department of Otolaryngology-Head and Neck Surgery
Icahn School of Medicine at Mount Sinai
Division of Neurotology
New York Eye and Ear Infirmary of Mount Sinai
Director, The Ear Institute
Director of Cochlear Implants
Anthony Del Signore, MD, PharmD  
Assistant Professor  
Department of Otolaryngology  
The Icahn School of Medicine at Mount Sinai  
Director of Rhinology and Endoscopic Skull Base Surgery at Mount Sinai Union Square  

Satish Govindaraj, MD  
Associate Professor  
Department of Otolaryngology–Rhinology  
Department of Neurosurgery  
The Icahn School of Medicine at Mount Sinai  
Vice Chair of Clinical Affairs in the  
Department of Otolaryngology at Mount Sinai  

Constantinos G Hadjipanayis, MD, PhD  
Professor  
Department of Neurosurgery  
Department of Oncological Sciences  
The Icahn School of Medicine at Mount Sinai  
Site Chairman, Department of Neurosurgery, Mount Sinai Beth Israel  

Mohemmed Nazir Khan, MD  
Assistant Professor  
Department of Otolaryngology  
The Icahn School of Medicine at Mount Sinai  

Enrique Perez, MD, MBA  
Assistant Professor  
Department of Otolaryngology–Head and Neck Surgery  
The Icahn School of Medicine at Mount Sinai  
Director of Otology at Mount Sinai Hospital  

Benjamin Rapoport, MD, PhD  
Assistant Professor  
Department of Neurosurgery  
The Icahn School of Medicine at Mount Sinai  

Scott Allan Roof, MD  
Assistant Professor  
Department of Otolaryngology–Head and Neck Surgery  
The Icahn School of Medicine at Mount Sinai
**Program**  
**Thursday, November 10, 2022**

<table>
<thead>
<tr>
<th>Eastern Standard Time</th>
<th>Guest Speaker</th>
<th>Topic</th>
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</thead>
</table>
| 1:00-1:15pm           | Joshua Bederson, MD  
                       | Eric Genden, MD  
                       | Alfred Iloreta, MD  
                       | Raj Shrivastava, MD  
                       | George Wanna, MD | Introduction |
| 1:15-2:30pm           | Scott Roof, MD  
                       | M. Nazir Khan, MD  
                       | Eric Genden, MD  
                       | Eric Genden, MD  
                       | George Wanna, MD | Lectures:  
                       | • Head & Neck anatomy for the skull base surgeon  
                       | • Local flaps  
                       | • Free flaps  
<pre><code>                   | • Infratemporal fossa anatomy and approach |
</code></pre>
<p>| 2:30 – 5:30pm         | Lab |</p>
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<thead>
<tr>
<th>Eastern Standard Time</th>
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<th>Topic</th>
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<tbody>
<tr>
<td>7:30-8:00am</td>
<td></td>
<td>Breakfast</td>
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</table>
| 8:00-9:30am           | Zachary Schwam, MD  
Enrique Perez, MD, MBA  
Maura Cosetti, MD  
George Wanna, MD  
Raj Shrivastava, MD | Lectures and panels:  
Middle fossa  
• Anatomy  
• SSCD  
• Encephaloceles/CSF leak  
• Kawase triangle, petrous apex  
• Interesting cases |
| 9:30 – 1:00pm         |              | Lab                |
| 1:00 – 1:45pm         |              | Lunch              |
| 1:45 – 4:00pm         |              | Lab                |
| 4:00-5:30am           | Zachary Schwam, MD  
Enrique Perez, MD, MBA  
Constantinos Hadjipanayis, MD, PhD and M. Nazir Khan, MD  
Raj Shrivastava, MD | Lectures and panels:  
• Posterior fossa  
  ▪ Anatomy  
  ▪ Retrosigmoid, translabyrinthine, transcochlear  
• Lateral skull base reconstruction  
• Neurosurgical complications- Dr. Shrivastava |
# Saturday, November 12, 2022

<table>
<thead>
<tr>
<th>Eastern Standard Time</th>
<th>Guest Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>7:30-8:00am</td>
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<td>Breakfast</td>
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<tr>
<td>8:00-10:00am</td>
<td>Satish Govindaraj, MD</td>
<td>Lectures and panels:</td>
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<tr>
<td></td>
<td>Alfred Iloreta, MD</td>
<td>• Transnasal transphenoida Approaches</td>
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<td></td>
<td>Anthony Del Signore, MD</td>
<td>• Anatomy</td>
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<tr>
<td></td>
<td>Madeleine Schaberg, MD</td>
<td>• Advanced approaches (clivus, craniocervical junction)</td>
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<tr>
<td></td>
<td>Alfred Iloreta, MD</td>
<td>• Transpterygoid approach and Pterygopalatine Fossa dissection</td>
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<td></td>
<td>Joshua Bederson, MD</td>
<td>• Encephalocele repair</td>
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<td></td>
<td>Multidisciplinary Panel</td>
<td>• Anterior skull base reconstruction</td>
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<td></td>
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<td>• Neurosurgical complications</td>
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<td></td>
<td></td>
<td>• Difficult cases</td>
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<tr>
<td>10:00 – 1:00pm</td>
<td></td>
<td>Lab</td>
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<tr>
<td>1:00 – 1:45pm</td>
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<td>Lunch</td>
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<tr>
<td>1:45pm to 4pm</td>
<td></td>
<td>Lab</td>
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<tr>
<td>4:00-4:50pm</td>
<td>Joshua Bederson, MD</td>
<td>Lectures/Panels:</td>
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<td></td>
<td>Benjamin Rapoport, MD, PhD</td>
<td>• Emerging technology in skull base surgery</td>
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<td></td>
<td>Alfred Iloreta, MD</td>
<td>• Augmented/Virtual reality in skull base surgery</td>
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<tr>
<td>4:50 – 5:00pm</td>
<td></td>
<td>Closing remarks</td>
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</tbody>
</table>
### Lab Curriculum

| Lateral Skull Base Dissection | 1st side: | • Infratemporal fossa approach  
• Translabyrinthine  
• Transcochlear |
|-------------------------------|-------|--------------------------------------------------|
| Lateral Skull Base Dissection | 2nd side: | • Middle fossa dissection  
• Kawase triangle  
• Retrosigmoid, far lateral |
| Anterior Skull Base Dissection | | • Transsphenoidal/transplanum/transtubicular approaches  
• Transpterygoid approach and pterygopalatine fossa dissection  
• Clival approaches/odontoidecotomy  
• Encephalocele/CSF leak repairs  
• Eustachian tube balloon certification  
• Transnasal orbital apex dissection  
• Bicoronal approach/Bifrontal craniotomy (if time allows) |
| Soft tissue | | • Temporalis flap  
• Temporoparietal fascia flap  
• Pericranial flap  
• Supraclavicular island flap  
• Submental island flap  
• Pectoralis major flap |

### Target Audience

Attendees will be neurosurgical and otolaryngology physicians, senior residents and fellows (to maximize meaningful participation for those still in training since senior residents and fellows are already able to think independently and have sufficient surgical skill to be able to complete a lab with directed instruction). Most of these dissections require significant experience. We are aiming to have 10 participants for dissection, and more than 40 people attending lectures.

### Educational Objectives

1. To instruct those attending in the standard techniques of anterior and lateral skull base dissection.
2. To introduce and orient participants to novel and emerging technologies in skull base surgery.
3. To participate in open discussions regarding difficult cases.
Venue:
Mount Sinai Hospital

Measures of Success:
A survey will be administered at the end of the course gauging the educational quality of all individual speakers and topics as well as the quality of the dissection specimens and available equipment.

Educational Methods:
Structured lectures, guided dissections, case-based panels.

Attention All Registrants
Upon successful registration, you will receive a confirmation email. Please note that registration will close on Tuesday, November 1, 2022.

To register go to https://forms.office.com/r/HnMkKedzmZ

Virtual Participation
Due to the important and valuable content of this course and the ability to provide it via Zoom, we are pleased to offer the didactic sessions only - free of charge.

For viewing our virtual streaming of the Course, you will receive an email containing the Zoom call-in details at least to (2) days prior to the Course. This information will be sent to the email address used for your registration.

To register go to https://forms.office.com/r/HnMkKedzmZ

Email Confirmation of Registrations
Please look for your registration confirmation email and contact Kerry.Feeney@mountsinai.org if you do not receive it by 5pm (Eastern) on Tuesday, November 8, 2022.
REGISTRATION INFORMATION and FEES:

Registration (including lab sessions) - $900
(Closes on 11/1/2022)

If you do not receive your confirmation email, please contact Kerry.Feeney@mountsinai.org.

VIRTUAL REGISTRATION INFORMATION

There are no fees to register for this option.

Cancellation and Refund Policy

All cancellations must be submitted by email to Kerry.Feeney@mountsinai.org and received by 5 pm on Tuesday, November 1, 2022 for a registration refund (minus a $25 cancellation fee). No refunds on cancellations made after November 1, 2022 or for “No Shows” the day of the course.

Registrations are not transferable. Registration will be closed on 11/1/2022.

To register go to https://forms.office.com/r/HnMkKedzmZ

Please note: This is not a CME accredited course.