

# 11<sup>th</sup> Annual Seattle Otolaryngology & Rhinology Course (SOAR)

March 9 – 11, 2023

## AGENDA

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### Thursday, March 9, 2023 Rhinology Surgery Lab & Lectures

- 7:30 a.m.     **Registration & Breakfast** (change into scrubs)
- 7:50 a.m.     **Welcome & Course Overview**  
*Douglas D. Backous, M.D., and Greg E. Davis, M.D., M.P.H.*
- 8 a.m.        **Maxillary Antrostomy and Extended Maxillary Sinus Surgery Pearls**  
*Bradford Woodworth, M.D.*  
**Objectives:**
- Outline the landmarks for successful maxillary sinus surgery
  - Describe the various options to treat challenging maxillary disease
- 8:20 a.m.     **Ethmoid and Sphenoid Sinus Surgery Pearls**  
*Erin O'Brien, M.D.*  
**Objectives:**
- Outline the anatomic pearls for a successful ethmoid and sphenoid sinus surgery
  - Describe how much ethmoid surgery to perform for each patient
  - Describe the dangers and techniques of extended sphenoid sinus surgery
- 8:40 a.m.     **Frontal Sinus Surgery Pearls**  
*Greg E. Davis, M.D., M.P.H.*  
**Objectives:**
- Outline the anatomic pearls for a successful frontal sinus surgery
  - Appreciate proper technique and instrumentation within the frontal sinus and frontal recess
  - Describe available devices and implants to help decrease frontal sinus stenosis
- 9 a.m.        **Break & Transition to the BioSkills Lab** (*not for CME credit*)
- 9:15 a.m.     **Live Demonstration Broadcast from BioSkills Lab No. 1**  
**Prosections:**
- **Prosection: Maxillary Antrostomy and Extended Maxillary Surgeries**  
*Bradford Woodworth, M.D.*
  - **Prosection: Ethmoid & Sphenoid Sinus Surgery**  
*Erin O'Brien, M.D.*
  - **Prosection: Frontal Sinus Surgery**  
*Greg E. Davis, M.D., M.P.H.*
- Objectives:**
- Describe the appropriate anatomy and techniques for performing balloon sinuplasty
  - Distinguish the different types of balloons available for balloon sinuplasty
  - Outline the approaches to maxillary and ethmoid sinus surgery
  - Identify the important surgical anatomic landmarks for frontal and sinus surgery
  - Summarize the techniques used to minimize complications for frontal and sphenoid sinus surgery
  - Outline the approaches to frontal and sphenoid sinus surgery

- 10 a.m. **Break & Exhibits** (*not for CME credit*)
- 10:15 a.m. **Hands-on BioSkills Lab Dissection No. 1**  
**Maxillary, Ethmoid, Sphenoid, and Frontal Sinus Surgery**  
*All Rhinology Faculty*  
**Objectives:**
  - Demonstrate the fundamental approaches for maxillary, ethmoid, sphenoid, and frontal sinus surgery
  - Describe techniques and equipment related to maxillary and ethmoid sinus surgery
- 12 p.m. **Lunch & Exhibits** (*not for CME credit*)
- 12:30 p.m. **Live Demonstration Broadcast from BioSkills Lab No. 2**  
**Prosections**
  - **Prosection: Sphenopalatine Artery (SPA) :Ligation**  
*Ian Humphreys, D.O.*
  - **Prosection: Orbit Decompression and Optic Nerve Decompression**  
*Arif Janjua, M.D.***Objectives:**
  - Identify the indications for endoscopic medial maxillectomy
  - Outline the new approaches for sphenopalatine artery ligation and various techniques for turbinate reduction
- 1 p.m. **Hands-on BioSkills Lab Dissection No. 2**  
**SPA Ligation, Orbit Decompression, Optic Nerve Decompression**  
*All Rhinology Faculty*  
**Objectives:**
  - Perform an endoscopic medial maxillectomy
  - Perform orbital decompression surgery
  - Outline the new approaches for sphenopalatine artery ligation and various techniques for turbinate reduction
- 2:30 p.m. **Break & Exhibits** (*not for CME credit*)
- 2:45 p.m. **Live Demonstration Broadcast from BioSkills Lab No. 3**  
**Prosections**
  - **Prosection: Pituitary Approach & Nasoseptal Flap**  
*Peter Manes, M.D.*
  - **Prosection & Dissection: Lothrop/Draf III Procedure**  
*Bradford Woodworth, M.D.***Objectives:**
  - Outline the anatomy of the suprasellar approach and discuss the relationship to the cavernous sinus
  - Define the role of modified endoscopic Lothrop procedure for the treatment of recalcitrant frontal sinus disease
- 3:05 p.m. **Hands-on BioSkills Lab Dissection No. 3**  
**Pituitary Approach, Nasoseptal Flap, & Lothrop/Draf III Procedure**  
*All Rhinology Faculty*  
**Objectives:**
  - Practice a pituitary approach
  - Practice a Lothrop procedure
  - Apply emerging techniques of endoscopic approaches to the anterior skull base
  - Perform a nasal septal flap for repair of skull base defects

4:15 p.m. **Panel Discussion No. 1 (Happy Hour)**  
**Current Challenges in Rhinology**  
*Moderator: Sanjay Parikh, M.D.*  
*Panelists: TBD*  
**Objectives:**

- Explore the most up-to-date advances and surgical techniques in rhinology
- Assess the controversies in the medical and surgical management of patients with chronic sinusitis

5 p.m. **Round Robin: Office-Based Anesthesia for Rhinology Procedures**  
*Moderator: Greg E. Davis, M.D., M.P.H.*  
**Objectives:**

- Describe how to optimize local anesthesia for office-based rhinology procedures

5:15 p.m. **Adjourn**

**Friday, March 10, 2023**  
**Rhinology & Otolaryngology Lectures and Panel Discussions**

7:30 a.m. **Registration and Breakfast**

7:50 a.m. **Welcome & Overview**  
*Douglas D. Backous, M.D., and Greg E. Davis, M.D., M.P.H.*

8 a.m. **Biologics or Aspirin Desensitization, What ENTs Should Know**  
*Drew Ayars, M.D.*  
**Objectives:**

- Know what questions to ask to screen patients for aspirin sensitivity.
- Outline when to refer a patient for aspirin desensitization.
- Appreciate the outcomes between aspirin desensitization and biologics.

8:25 a.m. **Management Options for Rhinitis**  
*Erin O'Brien, M.D.*  
**Objectives:**

- Outline the diagnostic evaluation for rhinitis
- Explain the different medical therapies available for treating rhinitis
- Describe the surgical and procedural options for treating rhinitis.

8:50 a.m. **Key Things to do in the Last 10 Minutes of Surgery and in the Early Postoperative Phase to Improve Outcomes**  
*Arif Janjua, M.D.*  
**Objectives:**

- Outline how to minimize bleeding at the end of sinus surgery
- Recognize what devices, stents, and materials are available to aid healing from sinus surgery
- Describe the key elements of post-operative sinus debridement procedures.

9:15 a.m. **Panel Discussion No. 2**  
**How Much Sinus Surgery is Necessary?**  
*Moderator: Bradford Woodworth, M.D.*  
*Panelists: TBD*  
**Objectives:**

- Recognize the correlation between sinus CT scans and patient symptoms
- Outline what is normal findings on sinus CT scans
- Apply the CT findings to surgical decision making

- 9:45 a.m. **Break & Exhibits** (*not for CME credit*)
- 10 a.m. **Septal Perforation Repair: Techniques for the Endoscopic Surgeon**  
*Ian Humphreys, D.O.*  
**Objectives**
- Describe the anatomic challenges of septal perforation repair
  - Outline several techniques to repair septal perforations
- 10:20 a.m. **Panel Discussion No. 3**  
**Management of Complex Inflammatory Sinus Disease**  
*Moderator: Arif Janjua, M.D.*  
*Panelists: TBD*  
**Objectives:**
- Describe the challenges of knowing when to offer sinus surgery or medical management for mild sinus disease
  - Outline the options available for recalcitrant sinus disease
  - Explain the unique differences in the available biologic therapies and when to consider prescribing these medications
- 10:50 a.m. **Management of Orbit and Skull Base Complications**  
*Bradford Woodworth, M.D.*  
**Objectives**
- Outline how to avoid orbit and skull base complications
  - Describe how to manage complications that occur during sinus surgery
- 11:15 a.m. **Litigation in Rhinology: Real Cases and How to Protect Yourself**  
*Greg E. Davis, M.D., M.P.H.*  
**Objectives**
- Recognize from actual cases several challenges in rhinology that can lead to litigation
  - Outline how to avoid some of the common errors that lead to litigation
- 11:40 a.m. **Update on Coding in Rhinology and Otolaryngology**  
*Peter Manes, M.D.*  
**Objectives:**
- Acquire the new information relevant to rhinology and otology coding
  - Outline the new procedure codes for several conditions within otolaryngology
- 12 p.m. **Lunch & ENT Exploratorium** (*not for CME credit*)

## Otolaryngology Lectures and Panel Discussions

- 12:45 p.m. **Panel Discussion No. 1:**  
**Facilitating Efficiency in Your Operating Room**  
*Moderator: Douglas D. Backous, M.D.*  
*Panelists: Andrew DeJong, M.D.; Clifford Hume, M.D., Ph.D.; Prof. Christopher Raine, MBE; Douglas Ruhl, M.D.*  
**Objectives:**
- Identify a specific structure to add to your operating room routines to ease the work of your staff
  - Describe specific methods to minimize case starting times to optimize OR time
- 1 p.m. **Diversity, Equity, and Access Inequalities in the CI Market**  
*Daniel Zeitler, M.D.*  
**Objectives:**
- Describe the barriers to CI care for under-represented groups nationally
  - Discuss the topic of equity in access to CI care with their healthcare authorities

- 1:20 p.m.      **The Challenges and Opportunities of Residency Training Programs in the Military**  
*Douglas Ruhl, M.D.*  
**Objectives:**
- Describe the process for becoming an otolaryngologist in the US military
  - Discuss the transition from military to after-military practice in otolaryngology
- 1:40 p.m.      **Panel Discussion No. 2:**  
**Treatment of Eustachian Tube Disorders in the Office Setting and Operating Room: Potions, Concoctions, Balloons & Augmentation**  
*Moderator: Prof. Christopher Raine, MBE*  
*Panelists: James Prueter, D.O.; Gavriel Kohlberg, M.D.; Daniel Zeitler, M.D.*  
**Objectives:**
- Describe the clinical ques to differentiate patulous versus obstructive eustachian tube dysfunction
  - Distinguish between the different medical therapies available for treating patulous eustachian tube
  - Outline the indications and techniques for eustachian tube surgery
- 2:20 p.m.      **Developing a Hearing Device Program in a Private Practice Setting**  
*Andrew DeJong, M.D.*  
**Objectives:**
- Outline a basic format for building a hearing device program in a private practice setting
  - Describe the different medical therapies available for treating rhinitis
- 2:40 p.m.      **Panel Discussion No. 3:**  
**Canal Wall-Up, Canal Wall-Down, Inside-Out Mastoidectomy: From Word Soup to Practical Decision Making in Managing Otitis Media and Cholesteatoma**  
*Moderator: Michael Foster, D.O.*  
*Panelists: Douglas Ruhl, M.D.; Prof. Christopher Raine, MBE; Clifford Hume, Ph.D., M.D.; James Prueter, D.O.*  
**Objectives:**
- Develop a decision tree for keeping or removing the external canal wall in surgery
  - Describe options for various meatoplasty techniques
  - Articulate the indications for an inside-out mastoidectomy
- 3:10 p.m.      **Break & Exhibits** (*not for CME credit*)
- 3:30 p.m.      **Efficient Workup of the Dizzy Patient in the Office**  
*Clifford Hume, M.D., Ph.D.*  
**Objectives:**
- Formulate your office-based history and examination for the dizzy patient
  - Define the indications for VNG, caloric testing and VEMP
- 3:50 p.m.      **Panel Discussion No. 4:**  
**Advantages and Challenges in Endoscopic Versus Microscopic Surgical Techniques**  
*Moderator: James Prueter, D.O.*  
*Panelists: Gavriel Kohlberg, M.D.; Andrew DeJong, M.D.; Michael Foster, D.O.; Douglas Ruhl, M.D.*  
**Objectives:**
- Describe the basic techniques for endoscopic ear surgery
  - Outline the benefits and challenges of endoscopic ear surgery versus microscope-driven ear surgery

4:30 p.m. **Challenging the Paradigm of Managing Hearing Loss in Chronic Otitis Media and Cholesteatoma: The Healthy Hearing Ears Initiative World-Wide**  
*Douglas D. Backous, M.D.*

**Objectives:**

- Outline the basic objectives for chronic ear surgery
- Challenge the timing of ossiculoplasty versus osseointegrated devices

4:45 p.m. **Panel Discussion No. 5:**  
**Options for Treating Sensorineural Hearing Loss: Sudden Loss to Device Options**  
*Moderator: Daniel Zeitler, M.D.*

*Speakers: Prof. Christopher Raine, MBE.; Michael Foster, D.O.; Gavriel Kohlberg, M.D.*

**Objectives:**

- Outline a paradigm for the acute management of sensorineural hearing loss
- Describe the timing for placement of a device in unilateral and bilateral sensorineural hearing loss

5:25 p.m. **Daily Wrap Up**

5:30 p.m. **Adjourn**

**Saturday, March 11**  
**Otology Laboratory**

7:30 a.m. **Breakfast & Exhibits and change into scrubs**

8 a.m. **Temporal Bone Drilling Lab No. 1**

*All Otology Faculty*

1. Orientation to drill technology and the choice of drill bits
2. Endaural vs. Postauricular incisions
3. Ear canal incisions
4. External auditory canalplasty
5. Approaches to the middle ear
6. Middle ear and mastoid endoscopy

**Objectives:**

- Implement a step-wise approach to middle ear reconstruction
- Recognize the appropriate prosthesis for middle ear reconstruction
- Outline enhanced middle ear anatomy through the surgical endoscopes

10:30 a.m. **Break & Exhibits** (*not for CME*)

10:45 a.m. **Temporal Bone Drilling Lab No. 2**

*All Otology Faculty*

1. Stapedotomy/Stapedectomy Techniques
2. Ossiculoplasty Techniques
3. Cartilage Harvesting and Cartilage Tympanoplasty
4. Complete Mastoidectomy
5. Facial Recess/posterior tympanotomy
6. Continued training in endoscopic techniques

**Objectives:**

- Implement a step-wise approach to stapedotomy/stapedectomy
- Perform a complete mastoidectomy

12 p.m. **Lunch & Exhibits** (*not for CME Credit*)

12:30 p.m.

**Panel Discussion No. 6:  
Challenging Otology Cases**

*Moderator: Gavriel Kohlberg, M.D.*

*Panelists: James Prueter, D.O.; Michael Foster, D.O.; Prof. Christopher Raine, MBE; Douglas Ruhl, M.D.; Andrew DeJong, M.D.*

**Objectives:**

- Describe difficult, chronic ear, cholesteatoma and vestibular cases in order to design a standard assessment framework
- Describe the role of the endoscope

1:30 p.m.

**Temporal Drilling Lab No. 3**

*All Otology Faculty*

- Continuation of drilling lab 2
- Cochlear implant techniques (cochleostomy vs. round window insertion)
- Retrofacial air cell drill-out
- Endolymphatic sac decompression
- Trans-mastoid labyrinthectomy

**Objectives:**

- Illustrate one's scope of access to the middle ear from the mastoid through the retrofacial air cell tract
- Describe the key anatomic danger areas in labyrinthectomy
- Practice a canal wall down mastoidectomy in the laboratory

3:30 p.m.

**Break & Exhibits** (*not for CME credit*)

3:45 p.m.

**Temporal Drilling Lab No. 4**

*All Otology Faculty*

1. Open the internal auditory canal
2. External auditory canal wall removal and modified radical mastoidectomy
3. Posterior and superior semicircular canal plugging
4. Decompression of the facial nerve from the stylomastoid foramen to the internal auditory canal
5. External meatoplasty
6. Begin our second bone and we will proctor you through whatever techniques you would like to practice

**Objectives:**

- Practice an external meatoplasty
- Practice a posterior and superior semicircular canal plugging

5:30 p.m.

**Course Wrap-up and Feedback**

*Douglas D. Backous, M.D.*

6 p.m.

**Adjourn**

## **COURSE FACULTY**

### **RHINOLOGY FACULTY**

**Greg E. Davis, M.D., M.P.H.**

**Course Co-Chair**

Clinical Associate Professor  
Rhinology & Endoscopic Skull Base Surgery  
Proliance Surgeons, ENT & Allergy Associates  
Seattle & Puyallup, Washington

### **GUEST FACULTY**

**Arif Janjua, M.D.**

Clinical Associate Professor  
Department of Otolaryngology  
University of British Columbia  
Vancouver, British Columbia

**Peter Manes, M.D.**

Associate Professor  
Division of Otolaryngology  
Yale School of Medicine  
New Haven, Connecticut

**Erin O'Brien, M.D.**

Associate Professor  
Department of Otolaryngology  
Mayo Clinic  
Rochester, Minnesota

**Bradford Woodworth, M.D.**

Professor and Interim Chair  
Department of Otolaryngology  
University of Alabama at Birmingham  
Birmingham, Alabama

### **LOCAL RHINOLOGY FACULTY**

**Amy Anstead, M.D.**

Rhinology & Endoscopic Skull Base Surgery  
Proliance Surgeons, Puget Sound ENT  
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**Andrew Ayars, M.D.**

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**Vincent Chan, M.D.**

Otolaryngologist  
Swedish Medical Center  
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**Ian Humphreys, D.O.**

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**Craig Miller, M.D.**

Rhinologist & Endoscopic Skull Base Surgeon  
Virginia Mason Medical Center  
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**Sanjay Parikh, M.D., FACS**

Professor, Department of Otolaryngology  
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## OTOLOGY FACULTY

### **Douglas D. Backous, M.D.**

#### **Course Co-Chair**

Proliance Surgeons, Puget Sound ENT  
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