

**13<sup>th</sup> Annual**  
**Seattle Otology & Rhinology Course (SOAR)**  
**March 6 – 8, 2025**  
**AGENDA**

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**Thursday, March 6, 2025**  
**Rhinology Surgery Lab & Lectures**

- 7:30 a.m.      **Registration, Breakfast & Exhibits**
- 7:50 a.m.      **Welcome & Overview**  
*Greg Davis, MD, MPH, FARS & Arif S. Janjua, MD, FRCSC*
- 8:00 a.m.      **Pre-Op CT Sinus Review**  
*Craig Miller, MD*  
**Objectives:**
- Learn a structured approach to reviewing a sinus CT scan when planning sinus surgery.
  - Recognize the appropriate prosthesis for middle ear reconstruction.
  - Gain an understanding of enhanced middle ear anatomy through the surgical endoscopes.
- 8:15 a.m.      **Maxillary Antrostomy and Extended Maxillary Approaches**  
*Ashleigh Halderman, MD*  
**Objectives:**
- Outline the steps for safe and effective maxillary sinus aeration.
  - Review how large to make a maxillary antrostomy, and what influences this decision.
  - Appreciate instruments and techniques required to treat challenging maxillary sinus disease (i.e. ventilating a contracted and/or severely diseased maxillary sinuses and/or removing lesions deep within the maxillary sinuses).
- 8:30 a.m.      **Ethmoid and Sphenoid Sinus Surgical Pearls**  
*Rodney J. Schlosser, MD*  
**Objectives:**
- Outline the steps for safe, but complete, ethmoid and sphenoid sinus aeration.
  - Describe techniques to find the natural sphenoid os.
- 8:45 a.m.      **Demystifying Frontal Sinus Surgery**  
*Jeremiah Alt, MD, PhD, FACS, FARS*  
**Objectives:**
- Outline key concepts in safely approaching the frontal sinus.
  - Learn ideal instruments to help dissect the frontal sinus.
  - Understand the complex anatomy of the frontal sinus and how to manage those anatomical variations.
- 9:00 a.m.      **Transition to the BioSkills Lab**
- 9:15 a.m.      **Live Prosections: Novel Devices, Balloon Dilations & Complete Sinus Surgery**  
Prosection: Endoscopic Septal Surgery (10 min.)  
*Arif S. Janjua, MD, FRCSC*  
Prosection: Ethmoid, Conservative Maxillary Antrostomy & Sphenoid Sinus Surgery (15 min.)  
*Rodney J. Schlosser, MD*  
Prosection: Frontal Sinus Surgery (Draf I, Draf IIa, Anterior Middle Turbinate Resection & Draf IIb) (10 min.)

*Jeremiah Alt, MD, PhD, FACS, FARS*

Prosection: Extended Maxillary Surgeries (Mega Antrostomy & EMM) (10 min.)

*Ashleigh Halderman, MD*

Prosection: Novel Nasal Devices (10 min.)

*Greg Davis, MD, MPH, FARS*

**Objectives:**

- Demonstrate Maxillary, Ethmoid, Sphenoid, and Frontal Sinus Surgery.
- Demonstrate Middle Turbinate Resection.
- Identify the important surgical anatomic landmarks for Frontal Sinus Surgery and demonstrate the differences between a Draf I, Draf IIa & Draf IIb Frontal Sinusotomy (including Middle Turbinate Resection).
- Review extended approaches for Maxillary Sinus Pathologies.
- Demonstrate novel sinus surgical devices including sinus balloons, Eustachian tube balloons, septoplasty balloons & RF devices for PNNA.

10:15 a.m. **Break & Exhibits**

10:30 a.m. **Hands-On BioSkills Lab Dissection No.1**

Endoscopic Septal Surgery

Maxillary, Ethmoid, Sphenoid & Frontal Sinus Surgery

Extended Maxillary Surgery

Novel Nasal Devices

**Objectives:**

- Perform safe Maxillary, Ethmoid, Sphenoid & Frontal Sinus Surgery.
- Use novel devices including sinus balloons, Eustachian tube balloons, septoplasty balloons, and RF devices for PNNA.

12:00 p.m. **Lunch & Exhibits**

12:30 p.m. Lunch & Learn: Septal Perforation Repair Techniques

*Jeremiah Alt, MD, PhD, FACS, FARS*

**Objectives:**

- Understand implications of a septal perforation.
- Discuss options to repair septal perforations.

12:45 p.m. **Live Prosections: MTR + Draf 3 (MELP), CSF Leak Repair, Orbital Decompression**

Prosection: Complete Middle Turbinate Resection + Lothrop/Draf III Procedure (15 min.)

Prosection: Management of Complications in ESS – SPA Ligation & CSF Leak Repair (10 min.)

*Sanjay R. Parikh, MD, FACS*

Prosection: Management of Complications in ESS – Canthotomy/Cantholysis & AEA Ligation via Lynch (10 min.)

*Sanjay R. Parikh, MD, FACS*

Prosection: Management of Complications in ESS – Orbit Decompression & Optic Nerve Decompression (10 min.)

*Craig Miller, MD*

**Objectives:**

- Learn how to address surgical complications.
- Demonstrate Draf III approach to the frontal sinus.

1:30 p.m. **Hands-On BioSkills Lab Dissection No.2**

Management of Complications in Sinus Surgery

- SPA Ligation
- AEA Ligation (via Lynch)
- Canthotomy/Cantholysis
- Orbital Decompression
- Optic Nerve Decompression

CSF Leak Repair

Middle Turbinate Resection & Draf III Frontal Sinusotomy

**Objectives:**

- Perform techniques to deal with surgical complications.
- Perform a Draf III frontal sinus surgery.

3:00 p.m.

**Break & Exhibits**

3:15 p.m.

**Rhinology Panel 1: Challenging Cases – Ask the Experts**

*Moderator: Ashleigh Halderman, MD*

*Panelists: Jeremiah Alt, MD, PhD, FACS, FARS; Alexander G. Chiu, MD; Greg Davis, MD, MPH, FARS; Arif S. Janjua, MD, FRCSC; Rodney J. Schlosser, MD*

**Objectives:**

- Discuss challenging cases in everyday rhinology.

3:45 p.m.

**Complication in Sinus Surgery**

*Alexander G. Chiu, MD*

**Objectives:**

- Discuss the proper management of all orbit complications.
- Understand how to safely manage intra-operative hemorrhage during sinus surgery.
- Gain skill in identifying intra-op CSF leaks.
- Learn the emergency steps to take when a CSF leak occurs.

4:15 p.m.

**Rhinology Panel 2: Current Challenges in Rhinology & Happy Hour Sponsored by Neurent Medical**

*Moderator: Sanjay R. Parikh, MD, FACS*

*Panelists: Jeremiah Alt, MD, PhD, FACS, FARS; Alexander G. Chiu, MD; Ashleigh Halderman, MD; Rodney J. Schlosser, MD*

**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.

5:00 p.m.

**Adjourn**

**Friday, March 7, 2025**  
**Rhinology Lectures & Panel Discussions**

7:30 a.m.

**Registration, Breakfast & Exhibits**

7:50 a.m.

**Welcome & Overview**

*Greg Davis, MD, MPH, FARS, Arif S. Janjua, MD, FRCSC; Douglas D. Backous, MD & David E. Olson, MD*

8:00 a.m.

**Novel Classification & Mindset for Chronic Rhinosinusitis**

*Arif S. Janjua, MD, FRCSC*

**Objectives:**

- Understand the phenotypic difference between Type 2 and Non-Type 2 Inflammatory Sinus Disease – and its implications for the modern management of CRS.
- Understand the concept of comprehensive sinus surgery and how it impacts outcomes after ESS.
- Review key surgical concepts to improve outcomes including ergonomics, visualization, concurrent septal surgery & mucosal preservation.

8:15 a.m.

**Personalized Surgery for Chronic Sinusitis**

*Rodney J. Schlosser, MD*

**Objectives:**

- Explore the personalized features that go into surgical decision making for Inflammatory Sinus Disease.
- Learn how to adjust the extent of surgery based on specific patient factors.

8:30 a.m.

### **Immunodeficiency Evaluation for Recalcitrant Chronic Sinusitis**

*Drew Ayars, MD*

#### **Objectives:**

- Review the basics of the immunologic work up of patients with recalcitrant CRS.
- Learn a practical algorithm for this immunologic evaluation.

9:00 a.m.

### **Rhinology Panel 3: Biologics for Surgeons – When, Where & How?**

*Moderator: Jeremiah Alt, MD, PhD, FACS, FARS*

*Panelists: Drew Ayars, MD; Ashleigh Halderman, MD; Craig Miller, MD; Rodney J. Schlosser, MD*

#### **Objectives:**

- Learn an evidence-based approach to medical therapies for nasal polyps.
- Appreciate the risks associated with significant or ongoing oral prednisone use.
- Understand the nuances of the biologic therapies available for nasal polyps.

9:30 a.m.

### **Break & Exhibits**

10:00 a.m.

### **Rhinology Panel 4: Anesthesia for Office-Based Procedures**

*Moderator: Greg Davis, MD, MPH, FARS*

*Panelists: Ashleigh Halderman, MD; Craig Miller, MD; Rodney J. Schlosser, MD*

#### **Objectives:**

- Learn injection-less techniques for natural anesthesia.
- Appreciate alternative approaches to anesthetizing the nose and sinuses for awake procedures.

10:15 a.m.

### **Nasal Obstruction and Treatment Options: Novel Approaches**

*Craig Miller, MD*

#### **Objectives:**

- Understand the utility of new techniques and devices to treat nasal obstruction in the office.
- Appreciate anatomic considerations for decision making regarding treatment options for nasal obstruction.

10:30 a.m.

### **Novel Treatments for Rhinitis**

*Greg Davis, MD, MPH, FARS*

#### **Objectives:**

- Understand the importance of treating the nasal valve.
- Learn novel options for the in-office management of nasal congestion.

10:45 a.m.

### **Management of Epistaxis**

*Rodney J. Schlosser, MD*

#### **Objectives:**

- Discuss the management of Epistaxis, including surgical approaches to the SPA & AEA.

11:00 a.m.

### **Fungal Sinusitis: When & How to Treat**

*Ashleigh Halderman, MD*

#### **Objectives:**

- Understand the key features in diagnosing and treating Fungal Sinusitis.
- Learn different treatment options for Fungal Sinusitis.

11:15 a.m.

### **Rhinology Panel 5: Recalcitrant Chronic Sinusitis**

*Moderator: Craig Miller, MD*

*Panelists: Jeremiah Alt, MD, PhD, FACS, FARS; Ashleigh Halderman, MD; Arif S. Janjua, MD, FRCSC; Rodney J. Schlosser, MD*

**Objectives:**

- Learn treatment options for when standard medical and surgical approaches do not cure the chronically diseased sinus.
- Discuss extended surgical approaches for severely diseased sinuses.

11:30 a.m.

**Last 10 Minutes of Sinus Surgery & Post-Op Care**

*Arif S. Janjua, MD, FRCSC*

**Objectives:**

- Understand that the last 10 minutes are key to setting up the nasal cavity for optimal post-op healing.
- Discuss suture techniques for the septum and middle turbinates.
- Review the importance, frequency & tools required for successful post-operative debridements.

11:45 a.m.

**The Final Countdown: What Burning Rhinology Questions Do You Have?**

*Greg Davis, MD, MPH, FARS & Arif S. Janjua, MD, FRCSC*

**Objectives:**

- Provide a final moment for participants to ask questions.
- Faculty will discuss other keys to success (from instruments to surgical pearls).

12:00 p.m.

**Lunch & Exhibits**

### Otology Lectures & Panel Discussions

12:30 p.m.

**Billing and Coding: The Blend of Optimization and Compliance in Otolaryngology**

*Michelle Netoskie, COPM, CPC, COC, CPPM, CPMA, CRC, CPB, CPC-I*

**Objectives:**

- Receive a comprehensive update of ICD-10 and CPT coding in otolaryngology.
- Apply appropriate modifiers to ensure payment with proper compliance.
- Understand the implications of under- & over-coding.

1:00 p.m.

**Allergy Testing & Treatment in Patients with Chronic Sinusitis, Rhinitis & Eustachian Tube Dysfunction**

*Drew Ayars, MD*

**Objectives:**

- Understand the role of environmental allergies in rhinitis, sinusitis, ear fullness & Eustachian tube dysfunction.
- Describe the role of allergy testing in diagnosing and guiding treatment in patients with Eustachian tube abnormalities.

1:20 p.m.

**Otology Panel 1: Plugging, Popping & Ear Fullness**

*Moderator: David E. Olson, MD*

*Panelists: Matthew Bartindale, MD; Clifford R. Hume, MD, PhD; Daniel J. Lee, MD & Michelle Netoskie, COPM, CPC, COC, CPPM, CPMA, CRC, CPB, CPC-I*

**Objectives:**

- Evaluate patients with common problems related to ear pressure.
- Understand the role of allergy testing and nasal endoscopy for these difficult patients.
- Integrate systemic, topical & surgical treatments in the patient group.
- Code and bill appropriately.

2:00 p.m.

**Break & Exhibits**

2:20 p.m.

**Office Evaluation of the Dizzy Patient**

*Michael Olds, MD*

**Objectives:**

- Articulate an efficient in-office evaluation of the dizzy patient.
- Understand when to order vestibular testing.
- Describe how to care for dizzy patients and maintain a balanced otology practice.

- 2:50 p.m. **Otology Panel 2: Managing Problems that Drive Us Nuts in Clinic: Pulsatile Tinnitus, Recurrent Cerumen, Sudden Hearing Loss, “I am Dizzy” & Draining/Itchy Ears**  
*Moderator: Douglas D. Backous, MD*  
*Panelists: Michael Olds, MD; Daniel M. Zeitler, MD; Rafael Jaramillo, MD; Margaret Aron, MD, FRCSC*  
**Objectives:**
  - Solicit an efficient history.
  - Guide cost-effective evaluation & treatment for difficult to manage, yet common clinical problems.
- 3:25 p.m. **Otology Panel 3: Chronic Otitis Media: Managing the Infection while Optimizing Hearing**  
*Moderator: Rafael Jaramillo, MD*  
*Panelists: Clifford R. Hume, MD, PhD; Douglas D. Backous, MD, FACS; Michael Olds, MD; David E. Olson, MD*  
**Objectives:**
  - Challenge the dogma of manage the cholesteatoma/infection first, then correct the hearing loss.
  - Understand the role of ossiculoplasty in revision cases of chronic otitis media and cholesteatoma.
  - Understand the role of cartilage tympanoplasty and cartilage embedded tympanostomy tubes in controlling chronic otitis media.
  - Identify risk factors for more difficult cases of chronic otitis media.
- 3:55 p.m. **ENT and the TMJ**  
*Samuel L. Bobek, DMD, MD, FACS*  
**Objectives:**
  - Understand the normal functioning of the temporomandibular joint (TMJ).
  - Understand the role of the TMJ in otalgia.
  - Articulate the common anomalies of the TMJ seen in an otolaryngology office.
- 4:15 p.m. **Break & Exhibits**
- 4:25 p.m. **Otology Panel 4: Managing Acute and Chronic Facial Nerve Dysfunction**  
*Moderator: Prabhat K. Bhama, MD*  
*Panelists: Matthew Bartindale, MD; Daniel M. Zeitler, MD; Gavriel D. Kohlberg, MD; Daniel J. Lee, MD; Michael Olds, MD*  
**Objectives:**
  - Define the clinical pathway to treat and evaluate for etiology in cases with acute facial palsy.
  - Understand the role of steroids and antivirals in managing facial palsy.
  - Understand the role of surgery in managing acute and chronic facial palsy.
  - Determine when static procedures are indicated in cases of facial palsy.
- 5:00 p.m. **Product Theater Sponsored by Regeneron / Sanofi \*Non-CME Activity\***  
 SSF Front Conference Room  
 Explore Sustained Control in Chronic Rhinosinusitis with Nasal Polyps (CRSwNP)  
*David Jang, MD, Duke University, Department of Head and Neck Surgery & Communication Sciences*
- 6:00 p.m. **Happy Hour**
- Saturday, March 8, 2025**  
**Otology Surgery Lab & Lectures**
- 7:30 a.m. **Registration, Breakfast, Exhibits & Change into Scrubs**  
 7:40 a.m. **Welcome & Overview**  
*Douglas D. Backous, MD & David E. Olson, MD*

- 7:45 a.m. **Optimizing the Otological Surgery Experience**  
*Douglas D. Backous, MD*  
**Objectives:**
- Understand the proper posture when drilling to avoid surgeon disability.
  - Define the angle of use for the drill.
  - Set up and verify the function of the facial nerve monitor.
- 8:00 a.m. **Hands-On BioSkills Temporal Bone Drilling Lab No.1**  
 Orientation to Drill Technology and the Choice of Drill Bits  
 Endaural vs. Postauricular Ear Canal Incisions (Discussion: *Michael Olds, MD*)  
 External Auditory Canalplasty (Demonstration: *Matthew Bartindale, MD*)  
 Approaches to the Middle Ear  
 Middle Ear and Mastoid Endoscopy  
 Balloon Dilation of the Eustachian Tube (Demonstration: *Daniel J. Lee, MD*)  
**Objectives:**
- Implement a stepwise approach to middle ear reconstruction.
  - Recognize the appropriate prosthesis for middle ear reconstruction.
  - Carry out an anatomically correct balloon dilation of the eustachian tube.
- 10:30 a.m. **Break & Exhibits**
- 10:45 a.m. **Hands-On BioSkills Temporal Bone Drilling Lab No.2**  
 Stapedotomy/Stapedectomy Techniques (Demonstration: *Michael Olds, MD*)  
 Ossiculoplasty Techniques (Demonstration: *Rafael Jaramillo, MD*)  
 Cartilage Harvesting and Cartilage Tympanoplasty (Demonstration: *David E. Olson, MD*)  
 Complete Mastoidectomy (Demonstration: *Gavriel D. Kohlberg, MD*)  
 Inside-Out Mastoidectomy Techniques (Demonstration: *Douglas D. Backous, MD*)  
 Facial Recess/Posterior Tympanotomy (Demonstration: *Clifford R. Hume, MD, PhD*)  
 Continued Training in Endoscopic Techniques (Demonstration: *Daniel J. Lee, MD*)  
**Objectives:**
- Implement a stepwise approach to stapedotomy/stapedectomy.
  - Perform a complete mastoidectomy and an inside-out mastoidectomy.
  - Choose and place an appropriate prosthesis for specific ossiculoplasty challenges.
  - Demonstrate cartilage modeling techniques relevant to middle ear surgery.
  - Understand ways to integrate endoscopy into one's surgical practice.
- 12:00 p.m. **Lunch & Exhibits**
- 12:30 p.m. **Cases for Review by Group**  
*Douglas D. Backous, MD*  
**Objectives:**
- Evaluate and discuss challenging otologic cases, applying evidence-based reasoning to diagnose and develop treatment strategies.
  - Compare clinical approaches and gain insight into best practices in patient management.
- 1:00 p.m. **Hands-On BioSkills Temporal Bone Drilling Lab No.3**  
 Cochlear Implant Techniques (Cochleostomy vs. Round Window Insertion) (Demonstration: *Rafael Jaramillo, MD*)  
 Retrofacial Air Cell Drill Out (Demonstration: *Matthew Bartindale, MD*)  
 Endolymphatic Sac Decompression (Demonstration: *Daniel M. Zeitler, MD*)  
 Trans-Mastoid Labyrinthectomy (Demonstration: *Margaret Aron, MD, FRCSC*)  
**Objectives:**
- Illustrate the location of the jugular bulb, carotid artery & cochlear aqueduct in the middle ear.
  - Recognized the key anatomic danger areas in labyrinthectomy.
  - Understand the nuances of canal wall down mastoidectomy to foster full healing.

3:30 p.m.      **Break & Exhibits**

3:45 p.m.      **Hands-On BioSkills Temporal Bone Drilling Lab No.4**

Opening the Internal Auditory Canal from the Mastoid (Demonstration: *Daniel M. Zeitler, MD*)  
External Auditory Canal Wall Removal and Modified Radical Mastoidectomy (Demonstration: *Gavriel D. Kohlberg, MD*)

Posterior and Superior Semicircular Canal Plugging (Demonstration: *Daniel J. Lee, MD*)  
Decompression of the Facial Nerve from the Stylomastoid Foramen to the Internal Auditory Canal (Demonstration: *Douglas D. Backous, MD*)

Petrous Apicectomy (Demonstration: *Clifford R. Hume, MD, PhD*)

Begin Second Bone & Proctor Attendees Through Whatever Techniques They Would Like to Practice

Facial Nerve Prosection (Demonstration: *Prabhat K. Bhama, MD*)

**Objectives:**

- Understand and articulate the entire course of the facial nerve.
- Recognize the key anatomic danger areas in labyrinthectomy.
- Understand the 3D anatomy of the internal auditory canal.
- Understand the different osseointegrated devices available and the surgical techniques for implanting them.

5:00 p.m.      **Adjourn**



## **COURSE FACULTY**

### **RHINOLOGY FACULTY**

**Greg Davis, MD, MPH, FARS**

**Course Co-Chair**

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

**Arif S. Janjua, MD, FRCSC**

**Course Co-Chair**

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

**Jeremiah Alt, MD, PhD**

Professor, Rhinology, Sinus & Skull Base Surgery  
Vice Chair, Equity Diversity & Inclusion  
Department of Otolaryngology, University of Utah  
Salt Lake City, Utah

**Drew Ayars, MD**

Program Director, Allergy & Immunology  
Associate Professor  
Department of Allergy & Infectious Diseases  
University of Washington  
Seattle, Washington

**Vincent T. Chan, MD**

Otolaryngologist  
Swedish Medical Center  
Seattle, Washington

**Alexander G. Chiu, MD**

Professor  
Department of Otolaryngology-Head and Neck Surgery  
Executive Vice Dean of the UW School of Medicine and  
Senior Vice President for Medical Affairs  
University of Washington  
Seattle, Washington

**Ashleigh Halderman, MD**

Otolaryngologist  
Westchester Medical Center  
Valhalla, New York

**Craig Miller, MD**

Rhinologist & Endoscopic Skull Base Surgeon  
Virginia Mason Medical Center  
Seattle, Washington

**Sanjay R. Parikh, MD, FACS**

Professor, Department of Otolaryngology  
Seattle Children's Hospital  
Seattle, Washington

**Rodney J. Schlosser, MD**

Director, Nose & Sinus Center  
Medical University of South Carolina  
Charleston, South Carolina

### **OTOLOGY FACULTY**

**Douglas D. Backous, MD**

**Course Co-Chair**

Otology and Neurotology  
Proliance Surgeons Puget Sound ENT  
Edmonds, Seattle & Puyallup, Washington

**David E. Olson, MD**

**Course Co-Chair**

Otolaryngologist  
Bellingham Ear, Nose & Throat  
Bellingham, WA

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Clinical Assistant Professor  
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**Matthew Bartindale, MD**

Otolaryngologist  
ENT Surgical Consultants  
Joliet, Illinois

**Prabhat K. Bhama, MD**

Facial Plastic Surgeon  
Providence North Everett Ear, Nose and Throat  
Everett, Washington

**Samuel Bobek, DMD, MD, FACS**

Oral and Maxillofacial Surgeon  
Seattle Jaw Surgery  
Seattle, Washington

**Clifford R. Hume, MD, PhD**

Associate Professor, Head & Neck Surgery  
University of Washington  
Seattle, Washington

**Rafael Jaramillo, MD**  
Otolologist and Skull Base Surgeon  
Caldas Hospital SES  
Manizales, Colombia

**Daniel J. Lee, MD**  
Otolaryngologist  
Proliance Surgeons Puget Sound ENT  
Edmonds & Seattle, Washington

**Michael Olds, MD**  
Otolaryngology and Pediatric Otolaryngology  
Spokane Ear Nose & Throat  
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**Gavriel D. Kohlberg, MD**  
Otolaryngologist  
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