

# ARS 70th Annual Meeting

September 27-28, 2024 | Miami, FL



## PROGRAM AT A GLANCE

### Credit Designation Statement

ARS designates this live activity for a maximum of 10.75 AMA PRA Category 1 Credit(s)<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### Thursday, September 26, 2024

#### Residents Didactic Course

Splash 9 & 10  
12:00 pm – 5:00 pm  
*By Invitation Only*

#### Residents Dissection Lab

Off-Site Location  
Details for Shuttle Service forthcoming  
12:00 pm – 5:00 pm  
*By Invitation Only*

#### Residents Reception

Splash 11 & 12  
6:00 pm – 7:30 pm  
*By Invitation Only*

### Friday, September 27, 2024

#### Residents Didactic Course

Splash 15 & 16  
7:30 am – 12:00 pm  
*By Invitation Only*

#### Residents Dissection Lab

Off-Site Location  
Details for Shuttle Service forthcoming  
8:00 am – 12:00 pm  
*By Invitation Only*

### Friday, September 27, 2024

7:00 am – 12:00 pm  
Splash 9-12

7:00 am – 8:00 am  
ARS Board of Directors Breakfast

8:00 am – 12:00 pm  
ARS Board of Directors Meeting

### Friday, September 27, 2024

1:00 pm – 5:00 pm  
General Session  
Sparkle Ballroom West

1:00 pm – 1:05 pm  
Welcome  
Kevin Welch, MD, FARS

1:05 pm – 1:19 pm  
President's Address  
Pete Batra, MD, FARS

### Top Rated Abstracts - Basic Science Presentations

*Moderators: Kara Detwiller, MD, FARS; Michael Kohanski, MD*

1:20 pm – 1:27 pm  
Stem cell therapy to treat Cystic Fibrosis rhinosinusitis  
Dawn Bravo, PhD

1:28 pm – 1:35 pm  
Murine model of nose-to-brain delivery of antibodies using minimally invasive nasal depot (MIND)  
Valentina Di Francesco, PhD

1:36 pm – 1:43 pm  
Deletion of Nrf2 enhances susceptibility to type 2 inflammation after short term PM2.5 exposure  
Murugappan Ramanathan, Jr., MD, FARS

1:44 pm – 1:51 pm  
Sinus microbial community changes in chronic rhinosinusitis over one year  
Tary Yin, MBChB, BMedSc(Hons), PhD

1:52 pm – 1:59 pm  
Treatment of diffuse intrinsic pontine glioma by MIND delivery of a stapled p53 peptide  
Andy Chua, MBBS, MRCS, MMed, FAMS, FARS

2:00 pm – 2:05 pm  
Q&A

2:05 pm – 2:15 pm  
Awards Ceremony/IFAR Top Reviewers Recognition  
Jean Kim, MD, FARS and Timothy Smith, MD, FARS, (Editor in Chief, IFAR)

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2:15 pm – 3:00 pm

### 20<sup>th</sup> Annual David Kennedy Lectureship

Guest Speaker: Robert Naclerio, MD

“Drug Development: From Discovery to the Clinic”

3:00 pm – 3:30 pm

**Break with Exhibitors in Sparkle Ballroom East**

### Top Rated Abstracts – Clinical Abstracts

*Moderators: Edward Kuan, MD, FARS; Patricia Loftus, MD, FARS*

3:30 pm – 3:37 pm

#### **Steroid-eluting sinus stent versus steroid rinse for maintaining frontal sinus patency**

Maxime Fieux, MD, PhD

3:38 pm – 3:45 pm

#### **Long term outcomes of PRP injections for post-viral olfactory loss**

Bruna Rafaela Castro, MD

3:46 pm – 3:53 pm

#### **Pathologic dural invasion is associated with regional recurrence in olfactory neuroblastoma**

Anthony Tang, BS

3:54 pm – 4:01 pm

#### **The effects of allergen immunotherapy (AIT) post-surgery in patients with central compartment atopic disease (CCAD)**

Christian Meerwein, MD

4:02 pm – 4:09 pm

#### **AI prediction of IP conversion to SCC using a multi-institutional CT dataset**

Farideh Hosseinzadeh, MD

4:10 pm – 4:15 am

**Q&A**

4:15 pm – 5:00 pm

#### **Panel: CRS: Where are we Headed in Research and Patient Care?**

Moderators: Robert Kern, MD, FARS, and Joshua Levy, MD, FARS

Panelists: Benjamin Bleier, MD, FARS; Amber Luong, MD, PhD, FARS; Bruce Tan, MD; Justin Turner, MD, FARS

5:00 pm – 5:10 pm

#### **Maurice Cottle – Our Founder Tribute**

Eugene Kern, MD

5:30 pm – 7:00 pm

#### **President’s Reception & Poster Reception**

Ocean Promenade East and Sparkle Ballroom East

## Saturday, September 28, 2024

8:00 am – 12:00 pm

### Skull Base – Breakout 1

### Sparkle Ballroom West

#### Session Chair:

8:00 am – 8:30 am

#### **Panel: “Carve it Out or Melt it Away – Induction Chemotherapy versus Upfront Surgery for Sinonasal Malignancies”**

Moderator: Edward Kuan, MD, FARS

Panelists: Nithin Adappa, MD, FARS; Raewyn Campbell, MD, FARS; Garret Choby, MD, FARS; Lauren North, MD

*Moderators: Mindy Rabinowitz, MD, FARS; Kenneth Rodriguez, MD*

8:30 am – 8:35 am

#### **Validation of the sinonasal outcome test-22 in sinonasal malignancy**

Cara Maya Fleseriu, BS

8:36 am – 8:41 am

#### **Understanding endoscopy and imaging frequency for detection of sinonasal SCC recurrence**

Saawan Patel, BBA

8:42 am – 8:47 am

#### **Mutational burden assessment in sinonasal squamous cell carcinoma survival**

Srivatsu Surya Vasudevan, MD, MS

8:48 am – 8:53 am

#### **Orbital decompression in the biologic era: Is there still a need for surgery?**

Daniel Gorelik, MD, MPH

8:54 am – 9:00 am

**Q&A**

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*Moderators: Mathew Geltzeiler, MD, FARS; Ashleigh Halderman, MD, FARS*

9:00 am – 9:05 am

**Retrobulbar amphotericin B injections versus orbital exenteration in AIFRS outcomes**

Nikitha Kosaraju, BA

9:06 am – 9:11 am

**Assessing complications of functional endoscopic sinus surgery in a large national database**

Justin Lau

9:12 am – 9:17 am

**Extended approaches to the maxillary sinus and empty nose syndrome**

Oloruntobi Rotimi, MBBS

9:18 am – 9:23 am

**Upfront Draf III – Cost-effective in the long run?**

David Lerner, MD

9:24 am – 9:29 am

**Q&A**

9:30 am – 9:45 am

**Debate: Approaches to the Lateral Frontal Sinus**

Moderator: Dennis Tang, MD, FARS

Panelists: Nyssa Farrell, MD; Sanjeet Rangarajan, MD, FARS; Raj Sindwani, MD, FARS; Bradford Woodworth, MD, FARS

9:45 am – 10:15 am

**Break with Exhibitors in Sparkle Ballroom East**

*Moderators: David Gudis, MD, FARS; Kibwei McKinney, MD*

10:15 am – 10:20 am

**Maxillary antrostomy alone versus complete sinus surgery for odontogenic sinusitis**

John Craig, MD, FARS

10:21 am – 10:26 am

**Long-term implications of short-term outcomes after ESS in CRS patients**

Aditi Agarwal, MD, MS

10:27 am – 10:32 am

**The effect of anticoagulant therapy on endoscopic sinus surgery postoperative outcomes**

Kevin Herrera, BS

10:33 am – 10:38 am

**Assessing the impact of GLP-1R agonists in post-sinus surgery management**

David Hoying, BS

10:39 am – 10:45 am

**Q&A**

*Moderators: Elisa Illing, MD, FARS; Peter Papagiannopoulos, MD*

10:45 am – 10:50 am

**Autologous vs synthetic inlay grafts have comparable skull base reconstructive outcomes**

Theodore Nguyen, MD

10:51 am – 10:56 am

**Social vulnerability and quality of life before and after endoscopic skull base surgery**

Jonathan Pang, MS

10:57 am – 11:02 am

**Factors influencing CSF leak timing after ESBS**

Ashleigh Halderman, MD, FARS

11:03 am – 11:08 am

**Unilateral versus bilateral resection of olfactory neuroblastoma**

Arash Abiri, PhD

11:09 am – 11:15 am

**Q&A**

11:15 am – 12:00 pm

**Panel: Evolving Principles for Systemic Therapies in Management of Sinonasal Malignancy**

Moderator: Mathew Geltzeiler, MD, FARS

Panelists: Glenn Hanna, MD; Nabil Saba, MD; Shirley Su, MD; Eric Wang, MD, FARS

12:15 pm – 1:00 pm

Ocean Promenade West

**ARS Fall Film FESSStival**

12:00 pm – 1:00 pm

**Lunch with Exhibitors in Sparkle Ballroom East**

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## PROGRAM AT A GLANCE

### Saturday, September 28, 2024

8:00 am – 12:00 pm

**Chronic Rhinosinusitis – Breakout 2**  
**Splash 9 & 10**

**Session Chair:**

8:00 am – 8:30 am

**Panel: CRS in the Immunosuppressed Patient: A Decision-Making Conundrum**

Moderator: Angela Donaldson, MD, FARS

Panelists: Roy Casiano, MD, FARS; Jacqueline Squire, MD; Bobby Tajudeen, MD, FARS

*Moderators: Angela Donaldson, MD, FARS; Bobby Tajudeen, MD, FARS*

8:30 am – 8:35 am

**Elevated serum uric acid levels correlate with CRSwNP recurrence**

Shaobing Xie, PhD

8:36 am – 8:41 am

**Predictors for class switching in eCRS**

Peta-Lee Sacks, MD, FRACS

8:42 am – 8:47 am

**Sequencing-based viral identification in CRSwNP**

Martin Desrosiers, MD

8:48 am – 8:53 am

**Eosinophils fluctuation in CRSwNP**

Wirach Chitsuthipakorn, MD

8:54 am – 9:00 am

**Q&A**

*Moderators: Charles Ebert, MD, FARS; Regan Bergmark, MD, FARS*

9:00 am – 9:05 am

**The crystal ball: Can we predict surgical outcomes for chronic rhinosinusitis patients?**

Vijay Ramakrishnan, MD, FARS

9:06 am – 9:11 am

**Outcomes of complete ESS for CRSwNP and AERD in the biologic era**

Alan Workman, MD, MTR

9:12 am – 9:17 am

**Early vs delayed functional endoscopic sinus surgery for patients with chronic rhinosinusitis**

Radhika Duggal, MA

9:18 am – 9:23 am

**17-year follow-up data of a randomized clinical trial on postoperative additive systemic steroids**

Sarina Mueller, MD

9:24 am – 9:29 am

**Q&A**

9:30 am – 9:45 am

**Debate: AERD: ASA Desensitization vs. Biologics**

Moderator: Elina Toskala, MD, FARS

Panelists: Regan Bergmark, MD, FARS; Kent Lam, MD, FARS

9:45 am – 10:15 am

**Break with Exhibitors in Sparkle Ballroom East**

*Moderators: Do-Yeon Cho, MD; Anthony DelSignore, MD, FARS*

10:15 am – 10:20 am

**Long term outcomes of Dupilumab therapy for chronic rhinosinusitis with nasal polyposis**

Samuel Shing, BS, BA

10:21 am – 10:26 am

**Factors associated with switching biologics in CRSwNP: A multicenter Canadian experience**

Marisa Dorling, BSc

10:27 am – 10:32 am

**Budget impact analysis of biologics in CRSwNP**

Maxime Fieux, MD, PhD

10:33 am – 10:38 am

**Cost utility analysis of EDS-FLU versus steroid nasal irrigation for nasal polyposis**

Amber Luong, MD, PhD, FARS

10:39 am – 10:45 am

**Q&A**

*Moderators: Jose Gurrola, MD; Devyani Lal, MD, FARS*

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10:45 am – 10:50 am

**Long-term efficacy of add-on Verapamil in topical steroid refractory CRSwNP**

Marcel Miyake, MD, PhD

10:51 am – 10:56 am

**Disease control vs overall symptom severity as a global metric for CRS disease status**

Ryan Cotter, BS

10:57 am – 11:02 am

**Associations of pesticide proximity with cytokine levels in patients with/without chronic sinusitis**

Melodyanne Cheng, MS

11:03 am – 11:08 am

**Expression and functional analysis of cystatin SN in a humanized mouse model of type 2 CRS**

Di Huang, PhD

11:09 am – 11:15 am

**Q&A**

11:15 am – 12:00 pm

**Panel: Interdisciplinary Workflows and Tips to Optimize Recalcitrant CRS Outcomes**

Moderator: Devyani Lal, MD, FARS

Panelists: Rakesh Chandra, MD, FARS; Claire Hopkins, MBChB, PhD; Diego Saldana Perez, MD; Jacqueline Squire, MD; Sarah Wise, MD, FARS

12:00 pm – 1:00 pm

**Lunch with Exhibitors in Sparkle Ballroom East**

### Saturday, September 28, 2024

8:00 am – 12:00 pm

**Chronic Rhinosinusitis – Breakout 3  
Splash 11 & 12**

**Session Chair:**

8:00 am – 8:30 am

**Research/AiR Panel: “The Changing Face of Academic Medicine and Implications for Surgeon-Scientists”**

Moderator: Vijay Ramakrishnan, MD, FARS

Panelists: Michael Kohanski, MD; Sandra Lin, MD, FARS; Murugappan Ramanathan, MD, FARS; Timothy Smith, MD, FARS; Michael Stewart, MD, FARS; Carol Yan, MD

*Moderators: Stella Lee, MD; Carol Yan, MD*

8:30 am – 8:35 am

**Microbiome in patients with chronic rhinosinusitis: Exploring the role of obesity**

Jorge Arpi, MD

8:36 am – 8:41 am

**Metagenomics or metataxonomics: Best practice methods to uncover the truth of the sinus microbiome**

Isabella Burdon, MBBS-V

8:42 am – 8:47 am

**Microbiome and mycobiome abundance and cytokine profile in sinus mucosa of patients w/wo CRS**

Hong-Ho Yang, BS

8:48 am – 8:53 am

**Viral infection as an inciting event for chronic sinusitis**

Najm Khan, MBS

8:54 am – 9:00 am

**Q&A**

*Moderator: Victoria Lee, MD, FARS; Kevin Welch, MD, FARS*

9:00 am – 9:05 am

**Association of nasal mucus cytokines and clinical severity in CRS patients with comorbid asthma**

Rory Lubner, MD

9:06 am – 9:11 am

**Validation of AECRS definition**

Katie Phillips, MD

9:12 am – 9:17 am

**CRS eosinophil cut points and asthma**

Wirach Chitsuthipakorn, MD

9:18 am – 9:23 am

**Paradigms in treating eosinophilic granulomatosis with polyangiitis**

Nitish Kumar, MS

9:24 am – 9:29 am

**Q&A**

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9:30 am – 9:45 am

### **Debate: Nasal Polyps Subtypes: Do We Need to Tailor Treatment Plans?**

Moderator: Corinna Levine, MD, FARS

Panelists: Jessica Grayson, MD; Elisa Illing, MD, FARS; Nicholas Rowan, MD; Rodney Schlosser, MD, FARS

9:45 am – 10:15 am

### **Break with Exhibitors in Sparkle Ballroom East**

*Moderators: Corinna Levine, MD, FARS; Kristine Smith, MD*

10:15 am – 10:20 am

### **Olfactory ensheathing cell tumor culture model as a tool to study olfactory nerve biology**

John Finlay, MD, PhD Student

10:21 am – 10:26 am

### **Impact of age on the accuracy of objective olfactory testing**

Anil Patel, Mr.

10:27 am – 10:32 am

### **Role of PRP in olfactory dysfunction treatment**

Shreya Mandloi, BS

10:33 am – 10:38 am

### **Taste and flavor remix: The effect of Dupilumab on AERD patients' chemosensory experience**

Emily Moldoff, FNP-C

10:39 am – 10:45 am

### **Q&A**

*Moderators: Angela Donaldson, MD, FARS; Erin O'Brien, MD, FARS*

10:45 am – 10:50 am

### **Quantifying CRS health utility: Direct & indirect**

Wirach Chitsuthipakorn, MD

10:51 am – 10:56 am

### **Impact of patient factors on MCID for SNOT-22 in chronic sinusitis**

Mohamed Aboueisha, MD

10:57 am – 11:02 am

### **Role of social determinants of health on quality of life in adult chronic rhinosinusitis**

Ryan Ziltzer, MD, MPH

11:03 am – 11:08 am

### **Socioeconomic status and gender impact sinus disease severity in people with Cystic Fibrosis**

Ethan Han, BS

11:09 am – 11:15

### **Q&A**

11:15 am – 12:00 pm

### **Panel: DEI in a changing and increasingly hostile landscape**

Moderator: Jose Mattos, MD

Panelists: Tracy Downs, MD; Erin O'Brien, MD, FARS; Joan E. St. Onge, MD, MPH, FACP

12:00 pm – 1:00 pm

### **Lunch with Exhibitors in Sparkle Ballroom East**

## **Saturday, September 28, 2024**

8:00 am – 12:00 pm

### **Outpatient Rhinology and Allergy Practice - Breakout 4**

### **Splash 14-16**

**Session Chair: Karen Bednarski, MD, FARS**

8:00 am – 8:30 am

### **Panel: Rhinitis: How to Evaluate and Manage This Underappreciated Condition**

Moderator: Anthony Del Signore, MD, FARS

Panelists: Mary Ashmead, MD; Karen Bednarski, MD, FARS; Seth Brown, MD, FARS; Christopher Davis, MD; Kathleen Tibbets

*Moderators: John Craig, MD, FARS; Edward Kuan, MD, FARS*

8:30 am – 8:35 am

### **Rhinorrhea recurrence after intranasal cryoablation: A multicenter cohort study**

Curtis Mack, Medical Student

8:36 am – 8:41 am

### **Cryoablation of the posterior nasal nerve in children**

Nisreen Al-Musaileem, MD



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8:42 am – 8:47 am

**Impact of septal deviation in temperature-controlled radiofrequency treatment of the nasal valve**

William Yao, MD, FARS

8:48 am – 8:53 am

**Intranasal trigeminal function in aging adults**

Noah Feit, MD

8:54 am – 9:00 am

**Q&A**

*Moderators:*

9:00 am – 9:05 am

**Intralesional sclerotherapy more effective for epistaxis in HHT**

Nitish Kumar, MS

9:06 am – 9:11 am

**Selective neurovascular cautery during turbinoplasty reduces rhinitis symptoms**

Alexander Zhang, MBBS

9:12 am – 9:17 am

**Nasal outcomes of rhinitis medicamentosa: Validation of the NORM form**

Brekel Kemp, MD, MPH

9:18 am – 9:23 am

**Intranasal mucosal sensitivity to mechanical airjet stimulation among ENS and septoturb patients**

Kanghyun Kim, BS

9:24 am – 9:29 am

**Q&A**

9:30 am – 9:45 am

**Debate: "Allergy Testing: Skin Testing v. In Vitro Testing"**

Moderator: Sandra Lin, MD, FARS

Panelists: James W. Mims, MD; Jennifer Villwock, MD

9:45 am – 10:15 am

**Break with Exhibitors in Sparkle Ballroom East**

*Moderators: Jennifer Villwock, MD*

10:15 am – 10:20 am

**Factors associated with high-risk ergonomic posture during office-based rhinology procedures**

Shaun Edalati, BS

10:21 am – 10:26 am

**Environmental impact of nasal endoscopy**

Darpan Kayastha, MD

10:27 am – 10:32 am

**Perioperative pollen exposure affects chronic rhinosinusitis outcomes after endoscopic sinus surgery**

Benton Tullis, BS

10:33 am – 10:38 am

**Ambient particulate matter and frequency of outpatient visits for chronic rhinosinusitis in the US**

Hong-Ho Yang, BS

10:39 am – 10:45 am

**Q&A**

*Moderators: Jean Kim, MD, FARS; Elina Toskala, MD, FARS*

10:45 am – 10:50 am

**Long-term efficacy and safety of SCIT in monosensitized and polysensitized AR children**

Xuan Yuan, MD

10:51 am – 10:56 am

**Persistent reduction of total serum IgE in CRSwNP after ESS with short course Dupilumab**

Leandra Mfunu Endam, Coordinator, Clinical Affairs

10:57 am – 11:02 am

**Skin prick test response, symptom severity and efficacy of SCIT in AR**

Xuan Yuan, MD

11:03 am – 11:08 am

**The impact of sinonasal corticosteroid irrigations on glycemic control: A retrospective analysis**

Anthony Botros, MD, MBA

11:09 am – 11:15 am

**Q&A**

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11:15 am – 12:00 pm

### **RiPP Panel: “What’s Your Side Gig? Capturing Additional Income**

Moderator: David Yen, MD

Panelists: Greg Davis, MD, FARS; Douglas Reh, MD, FARS; Stacey Silvers, MD, FARS; Geoffrey Trenkle, DO

12:00 pm – 1:00 pm

**Lunch with Exhibitors in Sparkle Ballroom East**

## **Saturday, September 28, 2024**

1:00 pm – 5:00 pm

**General Session**

**Sparkle Ballroom West**

1:00 pm – 1:15 pm

### **ARS Business Meeting and Presidential Citations**

Pete Batra, MD, FARS; Michael Stewart, MD, FARS; Kevin Welch, MD, FARS

1:15 pm – 2:00 pm

### **3<sup>rd</sup> Annual Hwang Family Lectureship**

Guest Speaker: Alexander Chiu, MD, FARS

**“A Disruptive Career Path: Lessons From Great Teachers, Personal Failures and Risky Career Choices”**

*Moderators: Anthony Del Signore, MD; Kristine Smith, MD*

2:00 pm – 2:05 pm

### **Prevalence of Cystic Fibrosis carrier status in chronic rhinosinusitis without nasal polyps**

Do-Yeon Cho, MD

2:06 pm – 2:11 pm

### **Olfactory cleft opacification and outcomes improve with expanded intranasal steroid treatment**

Alan Workman, MD, MTR

2:12 pm – 2:17 pm

### **Inflammatory endotypes in CRSwNP: Implications for postop outcomes**

Christina Dorismond, MD, MPH

2:18 pm - 2:23 pm

### **Autonomic dysfunction and olfactory loss in long COVID**

Eve Champaloux, MD, PhD

2:24 pm – 2:30 pm

### **Q&A**

*Moderators: Benjamin Bleier, MD, FARS; Stephanie Smith, MD*

2:30 pm – 2:35 pm

### **Immunophenotyping invasive fungal sinusitis survival**

Lauren Roland, MD

2:36 pm – 2:41 pm

### **Therapeutic efficacy of the ciprofloxacin azithromycin sinus stent for P.aeruginosa sinusitis**

Do-Yeon Cho, MD

2:42 pm – 2:47 pm

### **PAR2 activated IL13 Ra1 in eCRS**

Ching-Chih Lee, MD, PhD

2:48 pm – 2:53 pm

### **Olfactory fossa opacification on CT scan is correlated to nasal IL-5 in chronic rhinosinusitis**

Radhika Duggal, MA

2:54 pm – 3:00 pm

### **Q&A**

3:00 pm – 3:30 pm

### **Break with Exhibitors in Sparkle Ballroom East**

3:30 pm – 4:15 pm

### **International Panel: “Real World Management of Non-Type 2 CRS Inflammation: A Case-Based Discussion”**

Moderator: Do-Yeon Cho, MD

Panelists: Hector de la Garza, MD; Islam Herzallah, MD, PhD; Jin-Young Min, MD, PhD; Rodolfo Nazar, MD

4:15 pm – 5:00 pm

### **Panel: ARS/AAOA – Empty Nose Syndrome: Just a Bunch of Hot Air?**

Moderator: Haidy Marzouk, MD

Panelists: Pete Batra, MD, FARS; Seth Brown, MD, FARS; R. Peter Manes, MD, FARS; Jayakar Nayak, MD; Masayoshi Takashima, MD, FARS

5:00 pm

### **Meeting Concludes**



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### POSTERS

Poster #A001

**A case of orbital necrotizing fasciitis originating from sinonasal pathology**

Nishat Momin, MD

Poster #A002

**A descriptive analysis of characteristics of CRSwNP patients within US clinical practice**

Joseph Han, MD

Poster #A003

**A double dilemma: A novel case series of concomitant anterior and lateral cerebrospinal fluid leaks**

Nathaniel Untch, BS

Poster #A004

**A novel presentation of sinonasal seromucinous hamartoma**

Shady Soliman, MD, MS

Poster #A005

**A review of IIH management options after spontaneous CSF leak**

Ahmad Odeh, BS

Poster #A006

**WITHDRAWN**

Poster #A007

**Analyzing disparities in head and neck cancer among Hispanic populations and the role of HPV**

Cristina Benites, MBS

Poster #A008

**Anemia in nasal fracture**

Aman Patel, BS

Poster #A009

**Anterior ethmoid artery ligation for epistaxis: A systematic review**

Wynne Zheng, MA

Poster #A010

**Anterior skull base MRI framework for otolaryngologists**

Thomas Scharfenberger, BS

Poster #A011

**Antigen specific IgE in nasal secretion**

Shoji Matsune, MD, PhD

Poster #A012

**Apophysomyces elegans rhino-orbitocerebral infection in immunocompetent individuals**

Gabriel Dayan, MD

Poster #A013

**AR and VR in rhinology review**

Shaun Edalati, BS

Poster #A014

**Artificial intelligence driven automated performance metrics in endoscopic skull base surgery**

David Grimm, MS

Poster #A015

**Aspiration pneumonitis: An overlooked consequence of CSF rhinorrhea - A systematic review**

Maria Armache, MD

Poster #A016

**Assessing adult sinusitis guidelines: A comparative analysis of AAO-HNS and AI chatbots**

Shaun Edalati, BS

Poster #A017

**Assessment of TikTok as a patient education resource in chronic rhinosinusitis**

Nima Derakhshan, BSc

Poster #A018

**Association of nutritional vitamin intake and sinonasal infections**

Stella Lee, MD

Poster #A019

**Association of obesity with chronic adenoiditis and chronic rhinosinusitis in children**

Erica McArdle, MD

Poster #A020

**WITHDRAWN**

Poster #A021

**Association of race and insurance status with endoscopic anterior skull base surgery outcomes**

Shvetali Thatte, BS

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Poster #A022

**Attitudes toward COVID-19 among patients with chronic rhinosinusitis**

Richard Chiu, BS

Poster #A023

**Baseline characteristics of patients with CRSwNP in the United States in the AROMA global registry**

David W. Jang, MD

Poster #A024

**Biologic Claims by Otolaryngologists**

Ariana Shaari BA

Poster #A025

**Carolyn's window Asian noses**

Wirach Chitsuthipakorn, MD

Poster #A026

**Case report and literature review of prostate cancer metastases to the sphenoid sinus**

Jessa Miller, MD

Poster #A027

**Characteristic CT findings in silent sinus syndrome**

Nicholas Fung, MD

Poster #A028

**Characteristics of patients initiating Dupilumab for CRSwNP by number of previous surgeries**

Jayant Pinto, MD

Poster #A029

**Characteristics of patients with/without prior sinonasal surgery initiating Dupilumab for CRSwNP**

Joseph Han, MD, FARS

Poster #A030

**Cholesterol granuloma of the posterior ethmoid presenting as proptosis: Case presentation**

Luis Fernando Macias-Valle, MD, FARS

Poster #A031

**Chronic granulomatous invasive fungal sinusitis in the United States**

Andrea Cespedes Zablah, BS

Poster #A032

**Chronic rhinosinusitis diagnostic rates during the COVID-19 pandemic**

Kevin Herrera, BS

Poster #A033

**Chronic rhinosinusitis in endoscopic sinus surgery**

Akash Patel, BS

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Margaret B. Mitchell MD, MS-HPed

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Stella Lee, MD

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Thomas Cyberski, BS

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Sagar Mittal, MBBS

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Saad Alshammari, MD

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Amani Kais, MD

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Xiaomin Deng, PhD

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**Contemporary practice patterns for chronic rhinosinusitis with nasal polyposis**

Noel Ayoub, MD

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Stella E. Lee, MD

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Austin Heffernan, MD

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Ariana Shaari, BA

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Eugene Oh, BS, MSE

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Mohsen Naraghi, MD, FARS

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Khamis Suleiman, BS

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Caio Athayde Neves, MD, PhD

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Randall Ow, MD, FARS

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Vinayak Ganeshan, MD

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Eldin Rostom, BEng

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Akash Patel, BS

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Brian Cameron, MD

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Daniel Karasik

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**Disparities in sinonasal malignancy treatment**

Daniel Karasik

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Isabelle Williams, MB Bchir

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Yoni Shopen, MD

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Samuel Shing, BS, BA

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Jerin Thomas, BS

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Elias Saba, MD

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Pooya Roozdor, MD, MPH

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Joshua Smith, MD

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Aatin Dhanda, BA

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Christopher S. Ambrose, MD

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Jenny Ji

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Vineeta Belanger, PhD

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**Endoscopic combined antrostomies for odontogenic maxillary sinusitis**

Yoichiro Narikawa, MD

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Emily Hardy, BS

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Jeremy Ruthberg, MD

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Parker Tumlin, MD

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Mary Grecco

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Conner Massey, MD

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Mio Takeuchi, MD

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Mark Tabor, MD

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Eldin Rostom, BEng

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Matthew Cheung, BS

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Guillermo Ramirez Vazquez, MD

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Akash Patel, BS

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Stella Lee, MD

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Guillermo Maza Malave, MD

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**Frontal sinus IP**

Alexis Kim

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Mackenzie Latour, MD

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Benjian Zhang, MD

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Derek Liu, MD

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**High prevalence of sinonasal symptoms in untreated OSA patients**

Yixuan Zheng, MD

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**Hispanic Nose**

Belen Terreros, MD

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Estephania Candelo Gomez, MD, MSc

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Shivani Mehta, BS

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**How likely are patients who receive a CT scan of the sinuses to progress to sinus surgery?**

Jaime Yrastorza, BS

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Aman Patel, BS

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**Impact of anosmia on subsequent mental health disorders**

Shahzeb Hasan, MD

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Yoni Sacknovitz, BA

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**Impact of surgical cost awareness on surgical expenditure for endoscopic sinus surgery**

Chase Kahn, MD

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**Impact of topical Levaquin rinses on chronic rhinosinusitis**

Grant S. Owen, BA

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**Impact of topical Mupirocin rinses on chronic rhinosinusitis**

Grant S. Owen, BA

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**Improving readability of patient education materials with ChatGPT**

Austin Swisher, MD

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Amrita Bhat, BS

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Morgan McCain

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So Watanabe, MD, PhD

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**Investigating the relationship between olfactory dysfunction and vitamin intake**

Stella Lee, MD

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Urmila Gurung, MBBS, MS

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Alexander Wang, BS

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Jenny Xiao, MSc

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Miran Pankhania, MBChB

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**Localization of mucus using machine learning**

Vinayak Ganeshan, MD

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**Low resource pituitary complications**

Katherine Tai, MD

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Lirit Levi, MD

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**Malignant transformation rate of sinonasal inverted papilloma in immunocompromised patients**

Jason Crossley, MD

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**Management of exophytic papillomas with malignant transformation into squamous cell carcinoma**

Pranati Pillutla, MD

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Shivani Mehta, BS

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Axel Renteria, MD, MS

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Shaobing Xie, PhD

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**MMP1 predicts IP severity**

Kush Panara, MD

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**NAO and athletic performance**

Randall Ow, MD, FARS

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**Nasal cycling and nasal function**

Michelle Kim

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John Henrich, MD

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**WITHDRAWN**

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**Nasal septal abscess associated with ulcerative colitis**

Masakazu Murayama, MD

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**New device for management of epistaxis**

Tanveer Janjua, MD

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Aurelia Monk, BA

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Martin Maldonado-Puebla

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Aman Patel, BS

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Anne Marie Daou, MD

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Jeremy Tervo, Medical Student

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**Olfactory dysfunction in patients with allergic fungal rhinosinusitis**

Eunice Im



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Mohsen Naraghi, MD, FARS

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Smile Kajal, MD

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Sofia Olsson, BS

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Maxwell Weng, BSE

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Alexander Zhang, MBBS

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Lily Trinh, MD

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Margaret B. Mitchell, MD, MS-HPED

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Landon Ebbert

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Sofia Olsson, BS

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Balaram Ramagiri, MD

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Zhixiao Wang, PhD

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Daniela Vicencio, MD

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Pranati Pillutla, MD

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Ashton Rogers, BS

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Justina Shafik, BS

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Valeria Cepeda, MD

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Drew Smith, MD, MS

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Shiven Sharma, JD

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Sofia Olsson, BS

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Naruo Shoji, MD, PhD

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Pedro Lanca Gomes, MD

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Shreya Mandloi, BS

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Michael Werner, MD, PhD

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Shivani Mehta, BS

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Arthur Wu, MD, FARS

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Ariana Shaari, BA

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### **Readability of AI generated rhinology patient education materials**

Amani Kais, MD

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### **Real-time nasal endoscopic analysis with machine learning**

Vinayak Ganeshan, MD

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Juan Carlos Cardet

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### **Recommendations for post-operative surveillance after resection of uncommon benign sinonasal tumors**

Iulia Tapescu, PhD

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### **Recurrent inverted papilloma requiring rhinectomy, anterior skull base resection, & reconstruction**

Joshua Smith, MD

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### **Regional density of and neuropeptide expression in cadaveric nasal submucosal glands**

Madeline Goosmann, MD

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Ann Birmingham, BA

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Daniel Karasik

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Tom Raz Yarkoni, MD

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Kevin Herrera, BS

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### **Rhinology open payments**

Aatin Dhanda, BA

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Miti Parikh, BA

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### **Risk factors associated with prolonged length of stay in CSF rhinorrhea repair**

Tony Chung, MS

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### **Risk factors for inpatient treatment of orbital cellulitis**

Amani Kais, MD

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Rahul Guda, AB

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Radhika Duggal, MA

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Aman Patel, BS

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Stella Lee, MD

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Nitish Kumar, MS

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Akash Patel, BS

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Abdullah Memon, BS

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Henrique Ochoa Scussiatto, MD, PhD

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Lalee Varghese, MS, DLO, DNB

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Seung Cheol Han, MD

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Felisha Li

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Anthony Saad, BA

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Martin Desrosiers, MD

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Luv Amin, BS

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Corinna Levine, MD, MPH

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Hong-Ho Yang, BS

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Jakob Fischer, MD

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Giovanni Lampasona, MD

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Ying Piao Wang, MD, PhD

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Ezer Benamin, MD

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Soraya Fereydooni

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**SVI in sinonasal disease**

Theresa Dickerson, MS

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Samuel Shing, BS, BA

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**The first reported pediatric free flap reconstruction for advanced maxillary sinus osteoblastoma**

Anthony Botros, MD, MBA

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**The impact of bacterial infection and high tissue eosinophilia on outcomes of revision ESS**

Catherine Policina, MD

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Catherine Policina, MD

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Firas Sbeih, MD

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Anahita Nourmahnad, MD

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Osama Marglani

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David Lerner, MD

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Sheikh Sajjad Ali, MBBS, FCPS, FACS

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Daniel Carlton, MD

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Jake Stenzel, MS

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Minju Kim, MD

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Soroush Farsi

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Francesca Viola, MD

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Stella Lee, MD

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Randall Ow, MD, FARS

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John Behnke, MD

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Trisha Shang, BA

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Sandra Sze-jung Wu, MD

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**Validating a cadaveric training model for endoscopic orbital tumor resection**

Nada Ali, MD, MPH

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Jacquelyn Callander, MD

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**Variability of spray characteristics of intranasal corticosteroids**

Bingkai Chen

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Christopher Roxbury, MD, FARS

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**Weight loss in sinonasal malignancy**

Aman Patel, BS

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**World Trade Center exposure levels and incidence of sinonasal surgery**

Horacio Romero Castillo, MD/MSCR Candidate