

## PRESENTATIONS - PROGRAM AT-A-GLANCE

### MEETING HIGHLIGHTS

- 2 days, 2-afternoon breakout sessions
- 82 oral scientific presentations
- 175 poster presentations
- Exciting and informative panels covering particulate matter and the effects on upper and lower airways, skull base surgery outcomes, biologics v. surgery, the management of the nasal valve, and establishing diversity programs.
- Women in Rhinology Breakfast Session
- Combined ARS and AHNS Panel
- Multidisciplinary participation involving Rhinology, Allergy & Immunology, Neurosurgery, Pulmonary and Critical Care, and Endocrinology
- High-impact discussions and debates covering surgical v. medical management of recurrent acute rhinosinusitis, mucosal coverage following Draf III surgeries, de-escalation of medical therapy, and alternative therapies for smell loss
- Maximum of 10.5 AMA PRA Category 1 Credit(s)<sup>™</sup>

### Wednesday, May 15, 2024 Morning Session - Grand Ballroom CD 8:00 am – 12:00 pm CST

7:00 am – 8:00 am

#### Women in Rhinology Breakfast Session

Guest Speaker: Dana M. Thompson, MD, MS, MBA, FACS  
“Allyship in the pathway beyond the ‘glass ceiling’”

8:00 am – 8:05 am

#### Welcome

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

### Oral Presentations: Top Basic Science

Moderators: Benjamin Bleier, MD, FARS; Stella Lee, MD; Elina Toskala, MD, FARS

8:05 am – 8:13 am

#### Calcitriol restores olfactory impairment in mice with smoke induced sinusitis

Jennifer Mulligan, PhD

8:14 am – 8:22 am

#### In-clinic eosinophil peroxidase level as a diagnostic test of eosinophilic CRS

Jacquelyn Callander, MD

8:23 am – 8:31 am

#### D-2-hydroxyglutarate suppresses IgE production in murine allergic rhinitis

Anuj Tharakan, PhD

8:32 am – 8:40 am

#### Complement activation correlates with impaired olfactory function in CRSwNP

Jennifer Mulligan, PhD

8:41 am – 8:49 am

#### The role of MMP-11 in inverted papilloma migration and transformation

Kush Panara, MD

8:50 am – 8:55 am

#### Q&A

8:56 am – 9:05 am

#### Awards Ceremony

Jean Kim, MD, FARS

9:05 am – 9:45 am

#### PANEL: Targeted ESS plus Biologics vs. Complete ESS and Local Therapies – False Choice or Our Future?

Moderator: James Palmer, MD, FARS

Panelists: David Gudis, MD, FARS; Douglas Reh, MD, FARS; Sarah Wise, MD, FARS

9:45 am – 10:15 am

#### Break with Exhibitors

## Oral Presentations: Top Clinical Abstracts

*Moderators: Adam DeConde, MD; Angela Donaldson, MD, FARS; Ashleigh Halderman, MD, FARS*

10:15 am – 10:23 am

**Long term air pollution and genetic predisposition in chronic rhinosinusitis**

Murugappan Ramanathan, MD, FARS

10:24 am – 10:32 am

**An eosinophil peroxidase activity assay predicts acute exacerbations in post-operative chronic rhinosinusitis**

Kristine Smith, MD

10:33 am – 10:41 am

**Characterizing conflicts of interest in biologics literature for CRSwNP**

Conner Massey, MD

10:42 am – 10:50 am

**CRS type 2 biomarkers correlate with baseline SNOT-22 rhinologic domain independent of nasal polyp status**

Nikita Chapurin, MD, MHS

10:51 am – 10:59 am

**Oxymetazoline to predict turbinate reduction surgery outcome: prospective, single-blinded, CFD study**

Zachary Root, BS

11:00 am – 11:05 am

**Q&A**

11:05 am – 11:55 am

**Panel: Air Pollution and Particulate Matter: Implications in Upper and Lower Airway Disease**

Moderator: Regan Bergmark, MD, MPH, FARS

Panelists: G.R. Scott Budinger, MD; Peter Hwang, MD, FARS; Stella Lee, MD; Murugappan Ramanathan, MD, FARS

11:55 am – 12:00 pm

**Q&A**

12:00 pm – 1:00 pm

**Lunch with Exhibitors**

## Wednesday, May 15, 2024

### Afternoon Session – Grand Ballroom CD

**1:00 pm – 5:00 pm CST**

*Moderators: Michael Kohanski, MD; Kristine Smith, MD*

1:00 pm – 1:06 pm

**Predictors of control in biologic treated eosinophilic chronic rhinosinusitis**

Lu Hui Png, MD

1:07 pm – 1:13 pm

**Need for biologic rescue in CRSwNP following endoscopic modified lothrop procedure**

Keven Ji

1:14 pm – 1:20 pm

**Chitosan-based encapsulation for controlled topical drug release in rhinosinusitis**

Do-Yeon Cho, MD

1:21 pm – 1:27 pm

**FDA-approved biologics for chronic rhinosinusitis with nasal polyps: An analysis of FAERS data**

Radhika Duggal, MA

1:28 pm – 1:34 pm

**Histopathology of recalcitrant maxillary sinusitis requiring endoscopic medial maxillectomy**

Vidit Talati, MD, MS

1:35 pm – 1:41 pm

**Trends in Dupilumab utilization for nasal polyposis**

Daniel Xiao

1:42 pm – 1:48 pm

**Prevalence of primary humoral immunodeficiency based on CRS endotype**

Chioma Anidi, BA

1:49 pm – 1:55 pm

**Q&A**

*Moderators: Charles Ebert, MD, FARS; R. Peter Manes, MD, FARS*

1:56 pm – 2:02 pm

**Examining race and chronic rhinosinusitis' effects on asthma in unified airway diseases**

Evan Patel, MS

2:03 pm – 2:09 pm

**Social factors associated with treatment completion in aspirin exacerbated respiratory disease**

Shravan Asthana, BS

2:10 pm – 2:16 pm

**Frailty is associated with endotypic shifts in cytokine profiles in chronic rhinosinusitis**

Mason Krysinski, MD

2:17 pm – 2:23 pm

**Sniffing out frailty: A prospective case-control study assessing olfactory subdomains and frailty**

Michael Cheng, MD

2:24 pm – 2:30 pm

**Area deprivation index and CRS**

Amarbir Gill, MD

2:31 pm – 2:37 pm

**Assessing the efficacy of shared decision-making in the management of chronic rhinosinusitis**

Vivienne Li, BA

2:38 pm – 2:45 pm

**Q&A**

2:45 pm – 3:15 pm

**Break with Exhibitors**

3:15 pm – 3:30 pm

**Targeting Discussions and Debates: De-escalation of Therapies in CRS**

Moderator: Vijay Ramakrishnan, MD, FARS

Panelists: Elisa Illing, MD, FARS; Anju Peters, MD

*Moderators: Kibwei McKinney, MD; Charles Tong, MD, FARS*

3:31 pm – 3:37 pm

**University of Washington quality of life subdomain outcomes after treatment in sinonasal malignancy**

Sabrina Maoz, PhD

3:38 pm – 3:44 pm

**Are routine lumbar drains necessary after endoscopic resection of anterior skull base tumors?**

Jacob Harris, BA

3:45 pm – 3:51 pm

**Longer-term surveillance imaging and endoscopy needed in majority of sinonasal malignancy recurrence**

Alan Workman, MD, MTR

3:52 pm – 3:58 pm

**The role of induction chemotherapy for orbital invasion in sinonasal malignancies**

Anthony Tang, BS

3:59 pm – 4:05 pm

**Outcomes of endoscopic endonasal resection for pediatric craniopharyngiomas**

David Lerner, MD

4:05 pm – 4:11 pm

**Q&A**

4:12 pm – 4:55 pm

**Panel: How Do We Measure Success in Endoscopic Skull Base Surgery?**

Moderator: Gurston Nyquist, MD, FARS

Panelists: Odelia Cooper, MD; Ashleigh Halderman, MD, FARS; Stephen Magill, MD; Chirag Patel, MD, FARS

4:55 pm – 5:00 pm

**Q&A**

5:00 pm – 5:30 pm

**ARS Business Meeting**

5:30 pm – 7:00 pm

**ARS President's Reception**  
Plaza Ballroom

**Wednesday, May 15, 2024**

**Afternoon Concurrent Session – Grand Hall MNL**

**1:00 pm – 5:00 pm CST**

*Moderators: Nicholas Rowan, MD; Stephanie Smith, MD*

1:00 pm – 1:06 pm

**Inhalational exposure history is associated with differential sinonasal gene expression profiles**

Cameron Worden, MD

1:07 pm – 1:13 pm

**Arachidonic acid metabolites in nasal mucus distinguish chronic rhinosinusitis from non-sinusitis**

Marisa Griesel

1:14 pm – 1:20 pm

**Particulate matter may increase polyp risk**

Rory Lubner, MD

1:21 pm – 1:27 pm

**Purine metabolism is upregulated in chronic rhinosinusitis: Implications for injury**

Maria Villanueva, BS

1:28 pm – 1:34 pm

**Sinonasal transcriptome study of chronic rhinosinusitis with and without asthma**

Nitish Kumar, MBBS, MS

1:35 pm – 1:41 pm

**Mediation of LPS-induced inflammation with pro-resolving treatment in human nasal polyp tissue**

Peyton Robinson

1:42 pm – 1:48 pm

**Machine learning to identify nasal mucus biomarkers associated with olfactory loss in patient**

Jennifer Mulligan, PhD

1:49 pm – 1:55 pm

**Q&A**

*Moderators: Do-Yeon Cho, MD; Devyani Lal, MD, FARS*

1:56 pm – 2:02 pm

**Impact of LYR-220 on ethmoid opacification and CRS symptoms in the BEACON study**

Amber Luong, MD, PhD, FARS

2:03 pm – 2:09 pm

**EDS-FLU for CRS: Prior ESS subgroup analysis**

Sarah Wise, MD, FARS

2:10 pm – 2:16 pm

**Topical steroids for CRSsNP: A systematic review and meta-analysis**

Akash Bhat, BS

2:17 pm – 2:23 pm

**A cost utility analysis for the management of acute exacerbations of chronic rhinosinusitis**

Matthew Chu, MD

2:24 pm – 2:30 pm

**Incidence of infections during AECRS in CRS adults**

Nirushan Narendran, MS

2:31 pm – 2:37 pm

**Comparative effectiveness of medical and surgical treatment for recurrent acute rhinosinusitis**

Connor Hunt, BS

2:38 pm – 2:45 pm

**Q&A**

2:45 pm – 3:15 pm

**Break with Exhibitors**

3:15 pm – 3:30 pm

**Targeted Discussions and Debates: RARS Surgery v. Medical Management**

Moderator: Sandra Lin, MD, FARS

Panelists: Chadi Makary, MD, FARS; Jennifer Villwock, MD

*Moderators: Victoria Lee, MD, FARS; Kenneth Rodriguez, MD*

3:31 pm – 3:37 pm

**Linguistic gender differences in rhinology fellowship LORs: A multi-institutional temporal study**

Vikram Vasan, BA

3:38 pm – 3:44 pm

**The impact of cadaveric donor transplant on the development of chronic rhinosinusitis**

Estephania Candelo, MD, MSc

3:45 pm – 3:51 pm

**ETDQ-7 poorly predicts eustachian tube dysfunction in patients with tinnitus**

Najm Khan, MBS

3:52 pm – 3:58 pm

**Effectiveness of hypertonic saline post-endoscopic sinus surgery**

Rodolfo Giffoni

3:59 pm – 4:05 pm

**Spending, utilization, and coverage for CRSwNP therapies among Medicare Advantage beneficiaries**

Akash Bhat, BS

4:05 pm – 4:11 pm

**Q&A**

4:12 pm – 4:55 pm

**Panel: DEI Initiatives: Practical Advice on Starting, Maintaining, and Expanding DEI Programs**

Moderator: Jose Mattos, MD

Panelists: Jean Anderson Eloy, MD, FARS; Regan Bergmark, MD, MPH, FARS; Erin O'Brien, MD, FARS; Marianella Paz-Landsberg, MD

4:55 pm – 5:00 pm

**Q&A**

5:00 pm – 5:30 pm

**ARS Business Meeting**

5:30 pm – 7:00 pm

**ARS President's Reception  
Plaza Ballroom**

**Thursday, May 16, 2024**

**Afternoon Session – Grand Ballroom AB**

**1:00 pm – 5:05 pm CST**

*Moderators: David Gudis, MD, FARS; Elisa Illing, MD, FARS*

1:00 pm – 1:06 pm

**Autoimmune dysregulation in children with chronic rhinosinusitis**

Sairisheel Gabbireddy, MD

1:07 pm – 1:13 pm

**National pediatric acute invasive fungal sinusitis outcomes over a 13-year period**

Matthew Wu, MD

1:14 pm – 1:20 pm

**Symptom prioritization for the treatment chronic rhinosinusitis in people with cystic fibrosis**

Christine Liu, BS

1:21 pm – 1:27 pm

**Impact of elexacaftor/tezacaftor/ivacaftor on rates of FESS in cystic fibrosis**

Graham Pingree, BA

1:28 pm – 1:32 pm

**Q&A**

*Moderators: Charles Ebert, MD, FARS; Caitlin McLean, MD*

1:33 pm – 1:39 pm

**Machine learning predicts presence of sinonasal inflammation on CT using patient-generated data**

Arun Raghavan, MD

1:40 pm – 1:46 pm

**Multi-institutional validation of an AI-based sinus CT analytic algorithm**

Conner Massey, MD

1:47 pm – 1:53 pm

**3D surgical planning software to improve resident frontal sinusotomy**

Andrew Kelly, MD

1:54 pm – 2:00 pm

**The use of a convolutional neural network to automate radiologic scoring of CT sinuses**

Daniel Lee, MD, FRCSC

2:01 pm – 2:05 pm

**Q&A**

*Moderators: Peter Papagiannopoulos, MD; Bobby Tajudeen, MD, FARS*

2:06 pm – 2:12 pm

**Investigating efficacy and toxicity of topical agents for the treatment of CRS**

Sam Hale, BMedSc(Hons), MBChB

2:13 pm – 2:19 pm

**Orbital decompression for thyroid eye disease: Outcomes by preoperative severity and technique**

Lazaro Peraza, MD

2:20 pm – 2:26 pm

**Post-operative outcomes of benign orbital tumor resection are independent of tumor size & morphology**

Angela Zhu, BA

2:27 pm – 2:33 pm

**Virtual reality and wearable devices after skull base surgery**

Vivek Pandurangi, MD

2:34 pm – 2:40 pm

**AI-modified and generated patient education materials for skull base surgery**

Michael Warn, BS

2:40 pm – 2:45 pm

**Q&A**

2:45 pm – 3:15 pm

**Break with Exhibitors**

3:15 pm – 3:30 pm

**Targeted Discussions and Debates: Draf III and Other Drill-Outs: The Mucosal Coverage Controversy**

Moderator: Jivianne Lee, MD, FARS

Panelists: Pete Batra, MD, FARS; Bradford Woodworth, MD, FARS

*Moderators: Anthony Del Signore, MD; Mathew Geltzeiler, MD, FARS; Patricia Loftus, MD, FARS*

3:31 pm – 3:37 pm

**Prognostic significance of dysplasia in sinonasal inverted papilloma: A multi-institutional study**

Alexis Kim, BA

3:38 pm – 3:44 pm

**The inflammatory environment of sinonasal inverted papilloma**

Alana Ravasio, BS

3:45 pm – 3:51 pm

**Advancing IP and IP-SCC diagnosis: AutoML vs. traditional deep learning**

Farideh Hosseinzadeh, MD

3:52 pm – 3:58 pm

**Prolonged surveillance in inverted papilloma shows late recurrences and no benefit to frozen section**

Alan Workman, MD, MTR

3:59 pm – 4:05 pm

**Quality-of-life outcomes following endoscopic resection of sinonasal inverted papilloma**

Arash Abiri

4:06 pm – 4:12 pm

**Q&A**

4:13 pm – 5:00 pm

**Combined ARS and AHNS Panel: ICSNT: How It Can Help Your Practice**

Moderator: Edward Kuan, MD, FARS

Panelists: Daniel Beswick, MD, FARS; Nyall London, MD, FARS; James Palmer, MD, FARS; Timothy Smith, MD, FARS; Shirley Su, MD; Eric Wang, MD, FARS; Marilen Wang, MD, FARS

5:00 pm – 5:05 pm

**Q&A**

5:05 pm

**Meeting Adjourns**

5:30 pm – 7:00 pm

**ARS and AHNS Combined Reception**

Michigan Ballroom and Foyer

**Thursday, May 16, 2024**

**Afternoon Concurrent Session –**

**Grand Hall MNL**

**1:00 pm – 5:05 pm CST**

*Moderators: Jean Kim, MD, FARS; Spencer Payne, MD, FARS*

1:00 pm – 1:06 pm

**Medial flap turbinoplasty is unlikely to cause empty nose syndrome**

Yasser Almansour

1:07 pm – 1:13 pm

**Accuracy of the modified cotton test for ENS**

Lirit Levi, MD

1:14 pm – 1:20 pm

**Subtotal middle turbinate resection is unlikely to cause empty nose syndrome**  
Jacob Eide, MD

1:21 pm – 1:27 pm

**Bovine derived collagen matrix in the treatment of empty nose syndrome**  
Brian Cameron, MD

1:28 pm – 1:32 pm

**Q&A**

*Moderators: Kara Detwiler, MD, FARS; Jose Gurrola, MD*

1:33 pm – 1:39 pm

**Sniffing out trouble: Unmasking the dangers of VOCs on olfaction**  
Stella Lee, MD

1:40 pm – 1:46 pm

**Cognitive associations with olfaction and chemosensation**  
Stephanie Horton, MD

1:47 pm – 1:53 pm

**WITHDRAWN**

1:54 pm – 2:00 pm

**Age-related differences in olfactory retraining outcomes: A prospective cohort study**  
Amelia Lawrence, BS

2:01 pm – 2:07 pm

**Efficacy of the nasal airflow-inducing maneuver in the olfactory rehabilitation of laryngectomy patients: A systematic review and meta-analysis**  
Kurtis Young, MD

2:08 pm – 2:12 pm

**Q&A**

*Moderators: Stella Lee, MD; Amber Luong, MD, PhD, FARS*

2:13 pm – 2:19 pm

**COVID-19 associated dysgeusia and olfactory dysfunction impact on nutrition and quality of life**  
Hanna Moradi, BS

2:20 pm – 2:26 pm

**Paxlovid is associated with lower rates of chronic post-COVID-19 smell and taste disorders**  
Esther Wang, BS

2:27 pm – 2:33 pm

**Corticosteroid responsive olfactory dysfunction in CRS: What does it mean?**  
Kaete Archer, MD

2:34 pm – 2:40 pm

**Topography of odorant specific recognition: Preliminary investigation into an olfactory map**  
Harish Dharmarajan, MD

2:40 pm – 2:45 pm

**Q&A**

2:45 pm – 3:15 pm

**Break with Exhibitors**

3:15 pm – 3:30 pm

**Targeted Discussions and Debates: Alternative Therapies for Smell Loss**

Moderator: Kristine Smith, MD

Panelists: Joshua Levy, MD, FARS; Zara Patel, MD, FARS

*Moderators: Toby Steele, MD; William Yao, MD, FARS*

3:31 pm – 3:37 pm

**Twelve-month outcomes of septal swell body reduction using temperature-controlled radiofrequency**  
Jordan Pritikin, MD, FARS

3:38 pm – 3:44 pm

**Posterior nasal nerve surgical neurectomy versus ablation for chronic rhinitis**  
Sainiteesh Maddineni

3:45 pm – 3:51 pm

**Nasal obstruction outcomes in chronic topical nasal decongestant use patients**  
Anthony Di Ponio, DO

3:52 pm – 3:58 pm

**Mouth breathing correction reduces exercise-induced bronchoconstriction in adults and children**  
Yusuf M. Gulleth, MD

3:59 pm – 4:05 pm

**Impact of posture and CPAP therapy on nasal airflow partitioning**  
Ahmad Hamdan, Medical Student

4:06 pm – 4:12 pm

**Q&A**

4:13 pm – 5:00 pm

**Panel: The Nasal Valve: Selecting Patients for Minimally Invasive v. Open Procedures**

Moderator: William Yao, MD, FARS

Panelists: Henry Barham, MD, FARS; Monica Patadia, MD; Douglas Side, MD; Brent Senior, MD, FARS; David Yen, MD

5:00 pm – 5:05 pm

**Q&A**

5:05 pm

**Meeting Adjourns**



## ARS Poster Viewing

Wednesday, May 15, 2023

1:00 pm - 7:00 pm

Thursday, May 16, 2023

9:00 am - 7:00 pm

Riverside Exhibit Hall

## ARS Combined Poster Reception

Thursday, May 16, 2024

5:30 pm – 7:00 pm

Riverside Exhibit Hall

Poster #C001

**FAERS olfactory adverse events**

Daniel Lofgren, DO

Poster #C002

**24-hour antibiotic prophylaxis regimen is effective in ESBS**

Ashleigh Halderman, MD, FARS

Poster #C003

**30-day readmissions after endoscopic pituitary surgery**

Ashleigh Halderman, MD, FARS

Poster #C004

**A retrospective analysis of office-based rhinologic procedures**

Sarah Zahabi, MD

Poster #C005

**A scoping review of female sex hormones' influence on airway inflammation at the cellular level**

Anthony Dick, MD, MPH

Poster #C006

**A systematic review of patient frailty and endoscopic endonasal skull base surgery outcomes**

Sofia Olsson, BS

Poster #C007

**ADI does not predict CSF leak risk in pituitary adenoma resection**

Tyler Merrill, MD

Poster #C008

**ADI does not predict readmissions after endoscopic skull base surgery**

Jakub Jarmula, BA

Poster #C009

**Adjunctive dupilumab treatment after surgery in CRSwNP**

Yi-Tsen Lin, MD, PhD

Poster #C010

**AERD treatment outcomes improve more rapidly with institutional experience**

Jennifer Douglas, MD

Poster #C011

**AI vs web-based sinus surgery patient education material**

Anu Sharma, BS

Poster #C012

**AI vs. residents: ChatGPT versions in otolaryngology exams**

Evan Patel, MS

Poster #C013

**An analysis of ChatGPT recommendations to current guidelines in adult sinusitis**

Shaun Edalati, BS

Poster #C014

**An analysis of treatment experiences in the prolactinoma subreddit**

Rose Dimitroyannis, BA

Poster #C015

**An unusual case of nasal chondromesenchymal hamartoma**

Stefano Millarelli

Poster #C016

**Anatomical factors addressed during contemporaneous revision sinus surgery for chronic pansinusitis**

Nitish Kumar, MS

Poster #C017

**Ancient history of nasal reconstruction: The origins of beauty and the impact on global surgery**

Jonathan Deck, BS

Poster #C018

**Anosmia by SARS-CoV-2 strain**

Shreya Mandloi, BS

Poster #C019

**Approach to Intracranial Internal carotid artery pseudoaneurysm rupture**

Smile Kajal, MD

Poster #C020

**Area deprivation index scores do not predict delay to Draf III procedures**

Murray Bartho, BS

Poster #C021

**Assessing the efficacy of a customized 3D-printed septal prosthesis based on the NOSE-perf score**

Pedro Lanca Gomes, MD

Poster #C022

**Association of prior nose surgery with olfactory function among older adults**

Khamis Suleiman

Poster #C023

**Baseline characteristics of AROMA study CRSwNP patients by number of surgeries**

Jay Pinto, MD

Poster #C024

**Baseline characteristics of CRSwNP patients by surgical history in AROMA study**

Jay Pinto, MD

Poster #C025

**Bimodal neurosensory stimulation by olfactory training with visual stimulation**

Supinda Chusakul, MD

Poster #C026

**Biologic therapy and CRSsNP endoscopic sinus surgery rates**

Kevin Herrera, BS

Poster #C027

**Case of bilateral concurrent sinonasal pleomorphic adenoma and glomangiopericytoma**

Chappel Pettit

Poster #C028

**Characterizing donor susceptibility to EBV infection in the nasopharynx using organotypic rafts**

Shwet Kitchloo

Poster #C029

**ChatGPT antibiotic stewardship**

Nick Melott

Poster #C030

**Chronic granulomatous IFS with intracranial extension causing vision loss**

Kue Lee, BS

Poster #C031

**Chronic rhinosinusitis incidence before and during COVID-19 pandemic: A retrospective cohort study**

Jen Li Dong, BS

Poster #C032

**Comparing estimated and actual blood loss in FESS**

Kevin Fujita-Howie, MD

Poster #C033

**CRS in patients with hematologic malignancies who have undergone organ transplantation**

Karol Avila-Castano, MD

Poster #C034

**CRS onset in solid vs non-solid transplanted population**

Anyull Bohorquez, MD

Poster #C035

**CRSwNP disease burden by subspecialty**

Larry Borish, MD

Poster #C036

**Delayed nasopharyngeal stenosis and clival osteoradionecrosis in patient with chondrosarcoma**

Antonio Bon-Nieves, BS

Poster #C037

**Delayed vision loss s/p resection of tuberculum sellae meningioma by endoscopic endonasal surgery**

Mélyssa Fortin, MD

Poster #C038

**Demographic and research characteristics of United States rhinology fellowship directors**

Mark Mascera, Meng

Poster #C039

**Demographics, clinical features, and follow-up trends of sinus surgery patients**

Ravi Dhamija, BA

Poster #C040

**Detection of plagiarism among rhinology scientific journals**

Ezer Benaim, MD

Poster #C041

**Dexmedetomidine for improved surgical field**

Rodolfo Giffoni

Poster #C042

**Diet in aspirin-exacerbated respiratory disease**

Patrick Gaffney, BS

Poster #C043

**WITHDRAWN**

Poster #C044

**Efficacy of preoperative procedural patient education to mitigate stress and anxiety: A randomized controlled trial**

Ranny Assaf, MD

Poster #C045

**Efficacy of steroid rinses and smell retraining in restoring olfactory function in COVID**

Ethan McGann, MD

Poster #C046

**Emerging imaging techniques for the diagnosis of CRS**

Adwight Risbud, MD

Poster #C047

**Empty nose syndrome: A systematic review of management options**

Salman Hussain MB, BCh, BAO

Poster #C048

**Endoscopic endonasal approach to control of pterygoid plexus hemorrhage following LeFort I osteotomy**

Paul Cowan, DO, MS



Poster #C049

**Enhancing efficiency and reducing costs through instrument consolidation in endoscopic sinus surgery**

Anish Kosanam, BS

Poster #C050

**Evaluating ChatGPT as a patient education tool for COVID-19-induced olfactory dysfunction**

Elliott Sina, BA

Poster #C051

**Evaluating olfactory function and quality of life in patients with traumatic brain injury**

Amelia Lawrence, BS

Poster #C052

**Extranodal NK/T-cell lymphoma, nasal type: A diagnostic challenge**

Jee-hong Kim, MD

Poster #C053

**Factors associated with sinonasal epithelial-myoeplithelial carcinoma survival outcomes**

Vanshika Narala, BS

Poster #C054

**Factors influencing patient satisfaction in tertiary rhinology clinics**

Michael Yim, MD, FARS

Poster #C055

**Factors influencing surgeon choice for revision sinus surgery: NHIRD study**

Chun-Kang Liao, MD

Poster #C056

**Frontal bone lymphoma masquerading as Pott's Puffy Tumor: A case report**

Jeremy Chee, MBBS

Poster #C057

**Frontal sinus mucocele with advanced orbital complications**

Raisa Chowdhury, MSc

Poster #C058

**Gaseous orbital cellulitis: Case and review**

Keith Conti, MD

Poster #C059

**Gender differences following sinus surgery: A systematic review and meta-analysis**

Matthew Ryan, MD, FARS

Poster #C060

**Gender differences in demographics and research activity of rhinology fellowship directors**

Haris Waseem, BS

Poster #C061

**Gender disparities among speakers at national rhinology conferences: A five-year analysis**

Isabel Snee, BS

Poster #C062

**Geriatric COVID anosmia**

Nicolette Jabbour

Poster #C063

**GLP-1 receptor agonist induced patulous ETD: Case report and review of otologic adverse events**

Kaitlynn Pak, MD

Poster #C064

**Growth rate and management of incidentally found paranasal sinus osteomas**

Allen Luo

Poster #C065

**Human papilloma virus vaccination (HPV) as adjuvant therapy for sinonasal squamous cell carcinoma(SNSCCa)**

Rhiannon Gillett

Poster #C066

**Image guided sinus surgery for the practitioner: 4 years of experience looking at cost and utility**

Thomas Breinlich, MD

Poster #C067

**Immune checkpoint inhibitors (ICI) induced sinonasal disease: Review of literature and FDA database**

Kaitlynn Pak, MD

Poster #C068

**Impact of CRS on postoperative complications after transphenoidal surgery**

Kevin Herrera, BS

Poster #C069

**Impact of monoclonal antibodies on rates of FESS in CRSwNP**

Mihai Bentan

Poster #C070

**Impact of OD on PROMs and QOL in older adults**

Nicole Kloosterman, MD

Poster #C071

**Impact of traffic on CRS severity**

Snehitha Talugula, BS

Poster #C072

**Impacts of COVID-19 on US academic rhinologists' industry engagement**

Michael Warn, BS

Poster #C073

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