

PRESENTATIONS - PROGRAM AT-A-GLANCE

Thursday, April 28, 2022 Morning Session 8:00 am – 12:00 pm CST Landmark Ballroom C

8:00 am – 8:05 am **Welcome & Introduction** Rodney Schlosser, MD, FARS; Sarah Wise, MD, FARS

Scientific Oral Presentations: Top Rated Abstracts - Session I

Moderators: Kara Detwiller, MD, FARS; Charles Ebert, MD, FARS; Jose Mattos, MD

8:05 am - 8:13 am **Non-allergic rhinitis and air pollution exposure** Zechariah Franks, MD

8:14 am – 8:22 am A comparative analysis of endoscopic sinus surgery versus biologics Amar Miglani, MD

8:23 am – 8:31 am Association of cytokine profile with treatment failure and revision sinus surgery in CRS Elizabeth Longino, MD

8:32 am – 8:40 am Impact of long-acting implantable corticosteroid matrices on SNOT-22 subdomains in CRS patients Anders Cervin, MD, PhD

8:41 am – 8:49 am Effect of bevacizumab injection on epistaxis in HHT patients undergoing surgical cauterization Ashoke Khanwalkar, MD

8:50 am - 8:55 am **Q&A**

8:55 am - 9:04 am **Awards Ceremony** Jean Kim, MD, FARS

9:05 am - 9:45 am **PANEL: Revisiting the Controversial Role of Fungi in CRS: Examination of Allergic Fungal Rhinosinusitis** Moderator: Amber Luong, MD, PhD, FARS Panelists: Amin Javer, MD, FARS; Joshua Levy, MD, FARS; Matthew Ryan, MD, FARS *Sponsored by Allergy & Immunology in Rhinology Section*

9:45 am - 10:15 am Break with Exhibitors - Marsalis Hall Scientific Oral Presentations: Top Rated Abstracts - Session II

Moderators: Naweed Chowdhury, MD; Ashleigh Halderman, MD, FARS; David Jang, MD, FARS

10:15 am – 10:23 am Chronic IL-13 expression in mouse olfactory mucosa results in progressively aneuronal epithelium Ani Saraswathula, MD

10:24 am – 10:32 am **Unsupervised clustering of olfactory phenotypes** Rodney Schlosser, MD, FARS

10:33 am – 10:41 am Olfactory epithelium tropism of SARS-CoV-2 and agedependent intracranial spread via olfactory axons Andrew Lane, MD, FARS

10:42 am – 10:50 am Determinants of SARS-CoV-2 entry and replication in airway mucosa and susceptibility in smokers Jayakar Nayak, MD, PhD

10:51 am – 10:59 am Non-invasive biomarker and artificial intelligence model for differentiation of CRSwNP and CRSsNP Sarina Mueller, MD

11:00 am - 11:05 am **Q&A**

11:05 am - 11:20 am **TARGETED CONVERSATIONS ON IMPORTANT TOPICS: Humanitarian Efforts in Rhinology** Moderator: Danielle Warner, MD, FARS Anthony Del Signore, MD; Rodney Schlosser, MD, FARS

11:20 am – 12:00 pm **PANEL: Cystic Fibrosis CRS: A New Era** Moderator: Ashleigh Halderman, MD, FARS Panelists: Daniel Beswick, MD, FARS; Do-Yeon Cho, MD; David Gudis, MD, FARS; Stella Lee, MD *Sponsored by the Pediatric Rhinology Committee*

12:00 pm - 1:00 pm Lunch with Exhibitors - Marsalis Hall



Thursday, April 28, 2022 Afternoon Session 1:00 pm – 5:00 pm CST Landmark Ballroom C

Scientific Oral Presentations: COVID-19 and Olfaction

Moderators: Angela Donaldson, MD, FARS; Nicholas Rowan, MD; Ahmad Sedaghat, MD

1:00 pm - 1:06 pm Nasal inflammation in COVID-19 Katherine Chang, MD

1:07 pm - 1:13 pm COVID-19 versus CRS/rhinitis associated olfactory dysfunction on health utility and quality of life Thanh Luong, BS

1:14 pm – 1:20 pm **A longitudinal study of olfactory dysfunction and parosmia in mild COVID-19 cases** Aurelia Monk, BA

1:21pm – 1:27 pm Long term olfactory dysfunction in COVID-19 Andy Chua, MBBS

1:28 pm - 1:34 pm Impact of saline irrigations in non-hospitalized patients with COVID-19 Kyle Kimura, MD

1:35 pm - 1:40 pm **Q&A**

1:40 pm - 1:55 pm **TARGETED CONVERSATIONS ON IMPORTANT TOPICS: Current Treatment for COVID-induced Olfactory Loss** Moderator: Dana Crosby, MD, FARS Carol Yan, MD; Peter Hwang, MD, FARS

1:55 pm - 2:45 pm **KEYNOTE SPEAKER: Wayne Sotile, PhD** Title: "Resilience" Combined ARS, ALA, AHNS Session Presented Virtually

2:45 pm - 3:15 pm Break with Exhibitors - Marsalis Hall

Scientific Oral Presentations: Sinus Surgery

Moderators: Elisabeth Ference, MD, FARS; Marilene Wang, MD, FARS; Zachary Soler, MD, FARS

3:15 pm – 3:21 pm Development of an endoscopic sinus surgery preoperative checklist with the Delphi method Stephen Leong, BA

3:22 pm – 3:28 pm Long-duration pain block for postoperative analgesia after sinus surgery Jessica Bishop, MD

3:29 pm - 3:35 pm 3D models to accelerate resident surgical learning curve for endoscopic sinus surgery techniques Jumah Ahmad, MD

3:36 pm – 3:42 pm Image-guided surgical device failures in functional endoscopic sinus surgery: a MAUDE analysis Samir Hassanin, BA

3:43 pm - 3:49 pm Ergonomic analysis of hand fatigue in endoscopic sinus surgery Mason Krysinski, MD

3:50pm – 3:56 pm **Measurements of foot-pedal reaction time and hand accuracy in seated vs. standing position** Bennett Ahearn

3:57 pm - 4:05 pm **Q&A**

4:05 pm - 4:20 pm **TARGETED CONVERSATIONS ON IMPORTANT TOPICS: Biologics vs Sinus Surgery: Is it either/or?** Moderator: Jivianne Lee, MD, FARS Kevin Welch, MD, FARS; David Kennedy, MD, FARS

4:20 pm - 5:00 pm

PANEL: Ergonomics, Longevity, and Wellness in Sinus and Skull Base Surgery

Moderator: Vijay Ramakrishnan, MD, FARS Panelists: Raewyn Campbell, MD, FARS; Sanjeet Rangarajan, MD, FARS; Renee Witherspoon, Occupational Hygiene and Safety Manager, Research, Campus, and Environmental Safety

5:00 pm - 5:10 pm Business Meeting

5:30 pm - 7:00 pm ARS President's Welcome Reception - Reunion C



Friday, April 29, 2022 Morning Session 7:00 am – 12:00 pm CST Landmark Ballroom C

7:00 am – 8:00 am **BREAKFAST SESSION** Guest Speaker: Wayne Sotile, PhD Title: "The Medical Family" Presented Virtually *Sponsored by the Women in Rhinology Section and Diversity & Inclusion Committee*

Scientific Oral Presentations: Rhinologic Procedures & Skull Base

Moderators: Mathew Geltzeiler, MD, FARS; Abtin Tabaee, MD, FARS; Elina Toskala, MD, FARS

8:00 am - 8:06 am Randomized controlled trial for nasal packing post HHT laser treatment Justin Pyne, MD

8:07 am – 8:13 am Middle turbinate attachment's relationship with in-office procedure response for vasomotor rhinitis Omar G. Ahmed, MD

8:14 am – 8:20 am Does septoplasty and inferior turbinate reduction impact exercise capacity? A prospective study Sei Chung, MD

8:21 am - 8:27 am **The incidence of new-onset postoperative diplopia after medial & inferior orbital wall decompression** Tory McKnight, BS

8:28 am – 8:34 am **SNOT-22 scores after repair of CSF rhinorrhea** Matthew Liu, BS

8:35am - 8:41 am Transverse venous sinus stenting in idiopathic intracranial hypertension Peter Filip, MD

8:42 am - 8:50 am **Q&A**

8:50 am - 9:30 am **PANEL: Endoscopic Skull Base Surgery: Considerations Across the Lifespan** Moderator: Stacey Gray, MD, FARS Panelists: Nithin Adappa, MD, FARS; Roy Casiano, MD, FARS; Uma Ramaswamy, MD; Meghan Wilson, MD *Sponsored by Skull Base and Orbital Surgery & Women in Rhinology Sections* 9:30 am - 9:45 am **TARGETED CONVERSATIONS ON IMPORTANT TOPICS: Managing the Orbit in Invasive Fungal Sinusitis** Moderator: Corinna Levine, MD, FARS Justin Turner, MD, FARS; Bradford Woodworth, MD, FARS

9:45 am - 10:15 am Break with Exhibitors - Marsalis Hall

Scientific Oral Presentations: Systemic Diseases Associated with Rhinologic Conditions

Moderators: Cecelia Damask, DO; Sonya Marcus, MD; Jeffrey Suh, MD, FARS

10:15 am – 10:21 am **Radiologic improvement in chronic rhinosinusitis in patients with CF treated with CFTR modulators** Tyler Merrill, MD

10:22 am - 10:28 am Correlations between sinus CT and quality of life improvement with CFTR modulator therapy Jessa Miller, Resident Physician

10:29 am - 10:35 am **Cystic fibrosis responders to endoscopic sinus surgery** Ashleigh Halderman, MD, FARS

10:36 am - 10:42 am Cystic fibrosis chronic rhinosinusitis: An evidenced-based review with recommendations Daniel Spielman, MD

10:43 am – 10:49 am Genetics and olfactory dysfunction in primary ciliary dyskinesia Zainab Farzal, MD, MPH

10:50 am – 10:56 am Olfactory decline predicts frailty in older US adults with chronic lung disease Esther Wang, BS

10:57 am - 11:05 am **Q&A**

11:05 am - 11:20 am **TARGETED CONVERSATIONS ON IMPORTANT TOPICS: Social Media in Rhinology** Moderator: Greg Davis, MD, FARS Zara Patel, MD, FARS; Michael Setzen, MD, FARS



Scientific Oral Presentations: Pathophysiology and Mechanisms

Moderators: Esther Kim, MD; Edward Kuan, MD, FARS; Nyall London, MD, FARS

11:20 am – 11:26 am Nitric oxide generating microparticles: anti-biofilm efficacy and sinonasal epithelial cell toxicity Kevin Li, MD

11:27 am – 11:33 am **Denatonium-responsive bitter receptors and AERD** Jennifer Douglas, MD

11:34 am – 11:40 am Succinate activates solitary chemosensory cells (SCCs) in the nose Elizabeth Sell, Medical Student

11:41 am – 11:47 am **Pseudomonas biofilms in patients with chronic rhinosinusitis** Sarah Khalife, MD

11:48 am – 11:54 am In-vitro release of triamcinolone acetonide from saturated sinus dressings Do-Yeon Cho, MD

11:55 am - 12:00 pm **Q&A**

12:00 Meeting Adjourns

Friday, April 29, 2022 Morning Breakout Session 8:00 am – 12:00 pm CST Reunion Ballroom C

Scientific Oral Presentations: Patient Perceptions and Social Determinants

Moderators: Edward McCoul, MD, FARS; Theodore Schuman, MD, FARS; Zara Patel, MD, FARS

8:00 am – 8:06 am **Sinonasal outcomes in patients treated for AERD** Glen D'Souza, MD

8:07 am - 8:13 am Quality of life in CRS patients treated with long-acting implantable corticosteroid matrices Anders Cervin, MD, PhD

8:14 am - 8:20 am I got sinus - what do we mean when we have a 'sinus infection'? Edward McCoul, MD, FARS 8:21 am – 8:27 am **The rising cost of rhinological medications: a NADAC analysis** Milind Vasudev, BS

8:28 am – 8:34 am **Health literacy in rhinology patients** Abdullah Zeatoun, MD

8:35 am – 8:41 am Impact of social determinants of health on access to rhinology care and patient outcomes Esther Wang, BS

8:42 am - 8:50 am **Q&A**

8:50 am - 9:10 am A CONVERSATION WITH THE EDITOR-IN-CHIEF: Preparing a Publishable Paper Lauren Roland, MD; Timothy Smith, MD, FARS

9:10 am - 9:30 am **TIPS FROM THE EXPERTS: Starting a Career as a Surgeon- Scientist** Moderator: Victoria Lee, MD Panelists: Noam Cohen, MD, FARS; Andrew Lane, MD, FARS

9:30 am - 9:45 am **TARGETED CONVERSATIONS ON IMPORTANT TOPICS: Odontogenic Sinusitis** Moderator: Angela Donaldson, MD, FARS Panelists: John Craig, MD, FARS; Todd Kingdom, MD, FARS

9:45 am - 10:15 am Break with Exhibitors - Marsalis Hall

Scientific Oral Presentations: Pathophysiology and Mechanisms

Moderators: Mark Arnold, MD; Philip Chen, MD, FARS; Mindy Rabinowitz, MD, FARS

10:15 am – 10:21 am Is there a correlation between radiographic and histologic findings in rhinosinusitis? Do-Yeon Cho, MD

10:22 am – 10:28 am Site-specific detection and differential expression of inflammatory markers in the sinonasal mucosa Wesley Stepp, MD, PhD

10:29 am – 10:35 am Association between specific endotypes and the presence of discharge or edema after ESS for CRS Eli Stein, Medical Student



10:36 am – 10:42 am Histopathologic differences in adult and pediatric patients with chronic rhinosinusitis Sarah Khalife, MD

10:43 am - 10:49 am **Tissue eosinophilia is a superior metric compared to polyp status for RNA sequencing in CRS tissue** Tripti Kaur Brar, MBBS, MD

10:50 am – 10:56 am HIF1-alpha regulates human nasal epithelial cell growth in nasal polyposis Austin Mattox, Medical Student

10:57 am – 11:05 am **Q&A**

11:05 am – 11:19 am **TARGETED CONVERSATIONS ON IMPORTANT TOPICS: Standard of Care in Extended Frontal Sinus Surgery: Does Anyone Learn Osteoplastic Flaps Anymore?** Moderator: Raj Sindwani, MD, FARS Panelists: Stacey Gray, MD, FARS; James Palmer, MD, FARS

Scientific Oral Presentations: Symptom and QOL Measures in Rhinologic Conditions

Moderators: Naveen Bhandarkar, MD, FARS; Garret Choby, MD, FARS; Stephanie Joe, MD, FARS

11:20 am – 11:26 am **Sham-controlled trial of a novel device for the treatment of viral upper respiratory tract infection** Thomas Edwards, MD

11:27 am - 11:33 am **Eustachian tube dysfunction (ETD) in chronic rhinosinusitis with comparison to primary ETD** Tiffany Chen, Clinical Research Fellow

11:34 am – 11:40 am CRS in asthma is not associated with worse Asthma Control Test responses Amarbir Gill, MD

11:41 am – 11:47 am **Correlations between three validated olfactory tests** Michael Shih, BS

11:48 am – 11:54 am **Drug-induced olfactory and gustatory dysfunction** Peter Debbaneh, MD

11:55 am - 12:00 pm **Q&A**

12:00 pm Meeting Adjourns Posters 1st Combined Group ARS, AAFPRS, AHNS, ALA (Marsalis Hall)

Wednesday, April 27 Poster Viewing: 1:00 pm – 7:00 pm Meet the Authors: 5:30 pm – 6:00 pm

Thursday, April 28 Poster Viewing: 9:00 am – 7:00 pm Meet the Authors: 5:30 pm – 6:00 pm

Poster C001

A population-based analysis of nodal and distant metastases in sinonasal adenoid cystic carcinoma Jack Birkenbeuel, BS University of California, Irvine

Poster C002

Advances in 3D printing for patient specific sinus and skull base surgery Ricardo Pulido, MD

Poster C003 An objective evaluation of popular nasal irrigation systems Garret Berk, BS

Poster C004 Antibiotic irrigations for acute on chronic rhinosinusitis in patients with identical drug allergies Jessa Miller, MD UCLA

Poster C005

AROMA: Real-world global registry to assess long-term outcomes of Dupilumab treatment in CRSwNP Adam Chaker Technical University of Munich

Poster C006

Assessing the efficacy of sclerotherapy in patients with hereditary hemorrhagic telangiectasia Anna Jenkins, Medical Student Mayo Clinic School Alix of Medicine

Poster C007 Association between hypoalbuminemia and postoperative outcomes of pituitary tumor resection Sree Chinta

Poster C008 Association of frailty with surgical outcomes with transoral approach to the cervical spine Mehdi Lemdani, BA Rutgers New Jersey Medical School



Poster C009 Chronic rhinosinusitis and sickness behavior: Cytokine profile systematic review Wasiq Nadeem, BS UT Health San Antonio

Poster C010 Chronic rhinosinusitis and statins Mustafa Bulbul, MD, MPH

Poster C011 Combined endoscopic sinus surgery and septal perforation repair: SNOT-22 outcomes and closure rates Tripti Kaur Brar, MBBS, MD Mayo Clinic, Arizona

Poster C012 Comorbid psychological and pain diagnoses in the pauciinflammatory endotype of CRS Alex Labby, MD Vanderbilt University Medical Center

Poster C013 Comparison of endoscopic polyp grading scales Seth Jeong, BA

Poster C014 Complicated sinusitis secondary to streptococcus intermedius: A pediatric case series Alexander Duffy, MD Thomas Jefferson University Hospital

Poster C015 Composite reverse septal flap for nasal tip support after subtotal septectomy Kody Bolk, MD LSUHSC

Poster C016

Poster C017 CRS cognitive impairment review Hannan Qureshi, MD University of Washington

Poster C018 Diabetes mellitus and clinical outcomes following epistaxis treatment Avneet Randhawa, BS Rutgers University New Jersey Medical School

Poster C019 Diets in asthma and AERD Marie Lundberg, MD, PhD Poster C020 Does lumbar drain affect outcomes for endonasal resection of pituitary neoplasms? Benjamin Bitner, MD University of California Irvine Medical Center

Poster C021 Does understanding expectations improve patient satisfaction and communication in rhinology Eric Du, BS UC San Diego

Poster C022 **Dopamine reward and olfaction** Eve Champaloux, MD, PhD University of Washington

Poster C023 Effect of chronic obstructive pulmonary disease on endoscopic sinus surgery Christopher Pettit

Poster C024 Effect of hypertension in transsphenoidal surgery outcomes Avneet Randhawa, BS Rutgers University New Jersey Medical School

Poster C025 **Effect of obesity following inpatient epistaxis treatment** Avneet Randhawa, BS Rutgers University New Jersey Medical School

Poster C026 **Effect of weight loss on chronic rhinosinusitis** Vraj P. Shah, BS Rutgers New Jersey Medical School

Poster C027 Effects of midvault repair techniques on nasal drug delivery Raluca Gosman, BS

Poster C028 Endoscopic endonasal approach to intraconal malignant tumor of the orbit Dhruv Sharma, MD Indiana University

Poster C029 Endoscopic repair of latrogenic carotid artery injury using a lateral tongue muscle patch Nikita Chapurin, MD, MHS Vanderbilt University Medical Center

Poster C030 Evaluating distance bias in chronic rhinosinuisits outcomes Amarbir Gill, MD University of Utah

Poster C031 Evaluating opioid prescriptions after functional endoscopic sinus surgery (FESS) and/or septoplasty Landon Larabee, BS



Poster C032 Extra-nasopharyngeal angiofibromas: Case report and literature review Elizabeth Jee, MD Louisiana State University

Poster C033

Poster C034 **Frailty predicts worse survival in sinonasal squamous cell carcinoma** Rijul Kshirsagar, MD University of Pennsylvania

Poster C035 Frailty status and dietary patterns in adults with olfactory dysfunction Nicholas Rowan, MD Johns Hopkins University Medical Center

Poster C036 **Frailty status and perioperative outcomes in sinonasal tumors** Nicholas Rowan, MD Johns Hopkins University Medical Center

Poster C037 Free mucosal grafting and bioabsorbable steroid-eluding stents in skull base surgery Ashutosh Kacker, MD WCMC

Poster C038 Granulomatosis with polyangiitis and invasive fungal sinusitis Isabelle Gengler, MD University of Cincinnati

Poster C039 Head position for drug delivery to OMC and MS in patients with CRS Carson Popper, Medical Student

Poster C040 Histopathologic characterization of pediatric chronic rhinosinusitis Hannah Brown, BS Rush Medical College, Rush University Medical Center

Poster C041 Hypoalbuminemia and open anterior skull base surgery Rushi Patel, BA Rutgers New Jersey Medical School

Poster C042 IIH related CSF rhinorrhea leaking through an ecchordosis physaliphora Mackenzie Noonan Poster C043 Image guided obturator design and fabrication for maxillectomy defect in the case of IFS

John Lally, MD US ARMY

Poster C044 Impact of a combination CFTR modulator on mucosal inflammation in CF patients Neil Patel, MD, MSc University of California San Francisco

Poster C045 Impact of combination surgery and radiation therapy on survival in esthesioneuroblastoma Ryan Jin, BS Rutgers New Jersey Medical School, Newark, NJ

Poster C046 Impact of delay in treatment on survival in sinonasal undifferentiated carcinoma Anas Qatanani, BS

Poster C047 Impact of Dupilumab on sleep/function scores in patients with CRSwNP William Busse University of Wisconsin

Poster C048

Poster C049 Improvement in 'taste', and association with smell with Dupilumab-treated patients in CRSwNP Anju T. Peters, Professor Northwestern University

Poster C050 Improvement in rhinologic symptoms and quality of life in CF patients undergoing combination therapy Jeremy Tervo, Medical Student Columbia University Vagelos College of Physicians & Surgeons

Poster C051 Incidence of invasive fungal sinusitis prior to and during the COVID-19 pandemic Maggie Donovan, Medical Student University of Arizona College of Medicine – Phoenix

Poster C052 Income disparities in chronic rhinosinusitis management Vraj P. Shah, BS Rutgers New Jersey Medical School



Poster C053 Infratemporal fossa mature teratoma in a pediatric patient: A case report Keonho Kong, MD University of North Carolina

Poster C054 Internet search for balloon sinuplasty Vivek Pandrangi, MD Oregon Health & Science University

Poster C055 Inverted papilloma during pregnancy: A case report Antonella Loperfido, MD San Camillo Forlanini Hospital Rome, Italy

Poster C056 **Management of acute sinusitis with orbital complications: A systematic review** Anusha Sherwani Long School of Medicine

Poster C057 Management of intracranial complications of acute sinusitis: A systematic review Leslie Kim Long School of Medicine

Poster C058

Poster C059 **Metabolic syndrome and skull base surgery** Khodayar Goshtasbi, MS, MD University of California Irvine School of Medicine

Poster C060 **Monoclonal antibodies and chronic rhinosinusitis with nasal polyps: Our multidisciplinary experience** Antonella Loperfido, MD San Camillo Forlanini Hospital, Rome, Italy

Poster C061 **Multi-institutional review of sinonasal and skull base chondrosarcoma: A 20-year experience** Jacob G. Eide, MD University of Pennsylvania

Poster C062 Nasal septal perforations of unknown etiology Travis Haller, MD Mayo Clinic

Poster C063 Nasal swell body characteristics in patients with septal perforations Daniela Brake, MD Mayo Clinic Arizona Poster C064

Nasopharyngeal depth and facial anthropometry: A normative analysis Alexander Dickie, MD University of Western Ontario

Poster C065 **ODS management duration** Abdulkader Yassin-Kassab, MD University of Pittsburgh Medical Center

Poster C066 Orbital pseudotumor associated with CRS and fungus ball responsive to antifungals Emma West, MD VCU Health System

Poster C067 Pain control with sphenopalatine ganglion block after endoscopic sinus surgery Neelam Phalke, MD

Poster C068 **Parosmia and COVID-19: An evidence-based review with recommendations for the clinician** Joseph Gary Vagelos College of Physicians & Surgeons at Columbia University

Poster C069 **Patient risk factor analysis for procedural intervention in management of epistaxis** Rachel Kearl, DO SUNY Upstate Medical University

Poster C070 Patient safety indicator events vs. insurance type in transsphenoidal pituitary surgery patients Keshav Kumar, MPH

Poster C071 **Patient volume and online ratings for academic rhinologists in the United States** Kelsey Roman, BS University of California, Irvine

Poster C072 **Patterns of care for elderly patients with sinonasal undifferentiated carcinoma** Christopher Didzbalis, BA Rutgers New Jersey Medical School, Newark, NJ

Poster C073

Poster C074 **Postoperative impact of delay in surgery in patients undergoing ventral skull base surgery** Mehdi Lemdani, BA Rutgers New Jersey Medical School



Poster C075 Postoperative impact of transfer status for patients undergoing ventral skull base surgery Mehdi Lemdani, BA Rutgers New Jersey Medical School

Poster C076 Postoperative sinonasal infection following endoscopic skull base surgery Dean Chung, BA

Poster C077 Pott's puffy tumor: A review of the literature Rebecca Rohde, MD, MPH

Poster C078 **Prevalence of type 2 inflammatory signatures in patients with CRSwNP from 2 phase 3 clinical trials** Claus Bachert, MD Ghent University

Poster C079 Primary ciliary dyskinesia: a case of misdiagnosis and an update on diagnostic tools Adam Kimple, MD, PhD, FARS University of North Carolina

Poster C080 **Prophylactic antibiotics and septoplasty** Marie Lundberg, MD, PhD

Poster C081

Quantifying ethmoid sinus dimensions with relevance to skull base injury in endoscopic sinus surgery Michael Chang, MD Stanford University

Poster C082 Rates of antidepressant, anxiolytic, and ADHD medication use among patients undergoing ESS Alan Workman, MD, MTR

Poster C083 Rationale and design for EDS-FLU trials in CRS without and with nasal polyps James N. Palmer, MD, FARS University of Pennsylvania

Poster C084 Real world use of Dupilumab for nasal polyposis Isaac Schmale, MD University of Rochester Medical Center

Poster C085 Real-world persistence and adherence in subcutaneous allergen immunotherapy: A systematic review Michelle Park, MD Candidate Johns Hopkins University School of Medicine

Poster C086 Reconstruction of oroantral fistulas Nrusheel Kattar, MD LSU-Health Sciences Center Poster C087 **Resilience and symptom severity in patients with sinonasal complaints** James Kim, MD Keck School of Medicine University of Southern California

Poster C088 Retrobulbar amphotericin B in the treatment of invasive fungal sinusitis with orbital involvement Ashley Kraft, MD LSUHSC NO

Poster C089 Review of the association between olfactory dysfunction and idiopathic intracranial hypertension Sriram Navuluri, MD

Poster C090 **Rhinosinusitis-related complications in transplant recipient** Estephania Candelo, MD, MSc Mayo Clinic

Poster C091

Poster C092 SNOT-22 scores in CSF rhinorrhea Matthew Liu, BS UT Austin - Dell Medical School

Poster C093 **Spontaneous nasal septal abscess of odontogenic origin** Alexis Lakatta, BSA University of Texas Medical Branch

Poster C094

Poster C095 Symptom severity in primary English and non-Englishspeaking patients with sinonasal complaints Francis Reyes Orozco, BA Keck School of Medicine University of Southern California

Poster C096 Systematic review of preoperative embolization in juvenile nasopharyngeal angiofibroma removal Ashley Diaz, BS

Poster C097 **Temporality and the relationship between radiographic and patient reported outcome severity in CRS** Eli Stein, Medical Student Northwestern University Feinberg School of Medicine

Poster C098 **The anatomy of revision sinus surgery** Ashleigh Halderman, MD University of Texas Southwestern



Poster C099 The predictive utility of SNOT-22 Matthew Liu, BS UT Austin - Dell Medical School

Poster C100 The weekend effect in transsphenoidal pituitary surgery: A national analysis Vraj P. Shah, BS Rutgers New Jersey Medical School

Poster C101 Transorbital management of incidental intracranial mass in a patient with AERD and nasal polyposis Shaunak Amin, MD University of Washington

Poster C102 Transsphenoidal pituitary surgery patients in the ICU Rushi Patel, BA Rutgers New Jersey Medical School

Poster C103 Treatment of skull base osteomyelitis Ashleigh Halderman, MD, FARS University of Texas Southwestern

Poster C104 Understanding the pathophysiology of olfactory dysfunction in cleft lip nasal deformity Sarah Russel, MD University of North Carolina - Chapel Hill

Poster C105

WITHDRAWN

Poster C106 Variation in computed tomography opacification in sinus disease: A snapshot in time Sean Parsel, DO Thomas Jefferson University

Poster C107 Virtual care versus in-person assessment: patient satisfaction at the otolaryngology clinic Boipelo Tselapedi-Sekeitto, MD University of Western Ontario, London, ON, Canada

Poster C108 YouTube rhinosinusitis video characteristics vary based on the search term used Christopher Hornung, BS University of Minnesota Medical School