September 9-10, 2022 | Philadelphia, PA



PROGRAM AT A GLANCE

Thursday, September 8, 2022

Salon C/D

12:00 pm – 5:00 pm Resident Course – Didactic Session By Invitation Only

Liberty Ballroom 2/3

6:00 pm – 7:00 pm Residents Reception By Invitation Only

Friday, September 9, 2022

1:00 pm - 5:00 pm General Session Salon H/I/J

1:00 pm - 1:05 pm **Welcome**

Sarah Wise, MD, FARS

1:05 pm - 1:15 pm **Presidential Address** Rodney Schlosser, MD, FARS

Top Rated Abstracts - Clinical Rhinology

Moderators: Waleed Abuzeid, MD, FARS; Edward McCoul, MD, FARS; Marilene Wang, MD, FARS

1:15 pm - 1:22 pm

EPX as a biomarker for tissue eosinophilia in chronic rhinosinusitis regardless of polyp status

Devyani Lal, MD, FARS

1:23 pm - 1:30 pm

Re-Open-1: A randomized double-blind placebo-controlled trial of EDS-FLU for CRSwNP or CRSsNP

James Palmer, MD, FARS

1:31 pm - 1:38 pm

Randomized controlled trial of the effect of TXA on epistaxis following sinonasal surgery

Ashoke Khanwalkar, MD

1:39 pm - 1:46 pm

Chitogel post-ESS promotes healthy microbiome and reduces postoperative infections

Anna Megow

1:47 pm - 1:54 pm

Platelet-rich plasma for COVID-19 smell loss, a randomized controlled trial

Carol Yan, MD

1:55 pm - 2:05 pm

Q&A

2:05 pm - 2:15 pm **Awards Ceremony** Jean Kim, MD, FARS; Jivianne Lee, MD, FARS

Jean Kini, WD, I AKO, Jivianne Lee, WD, I AK

2:15 pm - 3:00 pm

David W. Kennedy Lecture

"Improving outcomes from sinonasal surgery – What are we missing?" Introduction: Sarah Wise, MD, FARS

Guest Speaker: Professor Claire Hopkins, BMBCH, FRCS (ORLHNS)

3:00 pm - 3:30 pm

Break with Exhibitors in Franklin Hall

Top Rated Abstracts – Basic and Translational Science

Moderators: Naweed Chowdhury, MD; Kara Detwiller, MD, FARS; Nyall London, MD, FARS

3:30 pm - 3:37 pm

Epigenetics in chronic rhinosinusitis vs. controls

Tripti Brar, MBBS. MD

3:38 pm - 3:45 pm

CST1 is an upstream initiator of epithelial derived type 2 inflammation in a murine model

Alan Workman, MD

3:46 pm - 3:53 pm

Impact of ambient PM2.5 on differentiated human nasal epithelial cell function and viability

Juliana Theorell

3:54 pm - 4:01 pm

Hypoxia-induced CFTR dysfunction is a mechanism underlying reduced mucociliary transport in CRS

Do-Yeon Cho, MD

4:02 pm - 4:09 pm

CRS related S. aureus strains demonstrate enhanced pathogenicity Simon Goldie

4:10 pm - 4:20 pm

Q&A

September 9-10, 2022 | Philadelphia, PA



PROGRAM AT A GLANCE

4:20 pm - 5:00 pm

Panel: Artificial intelligence and deep machine learning in rhinology

Moderator: Zara Patel, MD, FARS

Panelists: David Gudis, MD, FARS; Michael Marino, MD, FARS; Edward

McCoul, MD, FARS

5:15 pm - 7:00 pm

President's Welcome Reception

Liberty Ballroom

Saturday, September 10, 2022

8:00 am - 3:15 pm Breakout A Salon H/I/J

7:00 am - 8:00 am

Meet the Authors Poster Viewing & Breakfast

Franklin Hall

Skull Base & Orbital Surgery Section Session

8:00 am - 8:30 am

Panel: Nuances of orbital decompression Moderator: Mindy Rabinowitz, MD, FARS

Panelists: Benjamin Bleier, MD, FARS; Judd Fastenberg, MD; Kibwei

McKinney, MD; Michael Rabinowitz, MD

8:30 am - 9:15 am

Panel: Skull base malignancy - case discussion with the experts

Moderator: Garret Choby, MD, FARS

Panelists: Mathew Geltzeiler, MD, FARS; Richard Harvey, MD, FARS;

Devyani Lal, MD, FARS; James Palmer, MD, FARS

Endoscopic Endonasal Sella and Skull Base Surgery

Moderators: Emily Barrow, MD; Corinna Levine, MD, FARS; Mathew Geltzeiler, MD, FARS

9:15 am - 9:21 am

Postoperative management following endoscopic skull base reconstruction

Khodayar Goshtasbi

9:22 am - 9:28 am

Endocrinopathy risk factors after transsphenoidal surgery

Jake Lee, MD

9:29 am - 9:35 am

Outcomes after clinical care pathway implementation for EEA approach for sellar pathologies

Aamr Hasanjee

9:36 am - 9:42 am

Frailty does not impact postoperative outcomes in extended endonasal skull base surgery

Rijul Kshirsagar, MD

9:43 am - 10:00 am

Q&A

10:00 am - 10:30 am

Break with Exhibitors in Franklin Hall

Sinonasal Tumors and Orbital Surgery

Moderators: Anthony Del Signore, MD; Patricia Loftus, MD, FARS;

Nicholas Rowan, MD

10:30 am - 10:36 am

Effect of sarcopenia on survival outcomes in patients with nasopharyngeal and sinonasal cancer

Peter Kim, MD

10:37 am - 10:43 am

A multi-institutional survey of sinonasal lymphoma outcomes over

the past 20 years Jacob Eide, MD

10:44 am - 10:50 am

Volume and survival in endoscopic surgery for sinonasal squamous

cell carcinoma

Benjamin Bitner, MD

10:51 am - 10:57 am

Orbital resection by intranasal technique (ORBIT) staging system

Aria Jafari, MD

10:58 am - 11:04 am

Risk of frontal sinusitis after orbital decompression

Parker Tumlin

11:05 am - 11:15 am

Q&A

September 9-10, 2022 | Philadelphia, PA



PROGRAM AT A GLANCE

11:15 am - 12:00 pm

Panel: Skull base reconstruction options beyond the naso-septal flap

Moderator: Eric Wang, MD, FARS

Panelists: Emily Barrow, MD; Corinna Levine, MD, FARS; Katie Phillips,

MD; Raj Sindwani, MD, FARS

12:00 pm - 1:00 pm

Lunch with Exhibitors in Franklin Hall

12:00 pm - 1:00 pm

Women in Rhinology/Diversity & Inclusion/Mentorship/Residents and Fellows Luncheon

Guest Speaker: Simone S. Hicks, JD

"Medical Contracts and Negotiations from a Legal Perspective"

Salon E

Biologics

Moderators: Cecelia Damask, DO; Jose Mattos, MD; Lauren Roland, MD

1:00 pm - 1:06 pm

Real world analysis of dupilumab for nasal polyposis not meeting proposed biologic use guidelines

Isaac L. Schmale, MD

1:07 pm - 1:13 pm

Dupilumab treatment delays in asthma and chronic rhinosinusitis with nasal polyps

Samiat Awosanya

1:14 pm - 1:20 pm

Computational fluid dynamic analysis of improved olfaction after dupilumab

Thomas Lepley

1:21 pm - 1:27 pm

Efficacy of dupilumab in allergic fungal rhinosinusitis

Juan Carlos Hernaiz

1:28 pm - 1:34 pm

Impact of dupilumab on sinonasal outcomes in patients with AERD refractory to other biologics

Glen D'Souza

1:35 pm - 1:45 pm

Q&A

1:45 pm - 2:00 pm

HOT TOPICS: What's on the horizon? Biologics for nasal polyposis

Speakers: Kent Lam, MD, FARS; Lauren Roland, MD

2:00 pm - 2:45 pm

Panel: Unified airway update

Moderator: Kevin Welch, MD, FARS

Panelists: John Bosso, MD; Cecelia Damask, DO; Claire Hopkins, MD;

Anju Peters, MD

2:45 pm - 3:15 pm

Break with Exhibitors in Franklin Hall

Saturday, September 10, 2022

8:00 am – 12:00 pm Breakout B Salon A/B

7:00 am - 8:00 am

Meet the Authors Poster Viewing & Breakfast

Franklin Hall

Chronic Rhinosinusitis Histology and Treatment

Moderators: Angela Donaldson, MD, FARS; Elisabeth Ference, MD, FARS; Ashoke Khanwalkar, MD

8:00 am - 8:06 am

Histopathologic differences in adult and elderly patients with CRS Hannah Brown

8:07 am - 8:13 am

Medical therapy for CRS is associated with a decrease in disease burden and type 2 inflammation

Eli Stein

8:14 am - 8:20 am

Long-acting corticosteroid matrices improve CRS cardinal symptoms

Brent Senior, MD, FARS

8:21 am - 8:27 am

Effect of dupilumab on eustachian tube dysfunction in patients with CRS

Michael Chang, MD

8:28 am - 8:34 am

Salicylate limited diet in aspirin exacerbated respiratory disease Diana Bigler

J

8:35am - 8:45 am

Q&A

September 9-10, 2022 | Philadelphia, PA



PROGRAM AT A GLANCE

Women in Rhinology Section Session

8:45 am - 9:30 am

Panel: Ensuring diversity in rhinologic research

Moderators: Elina Toskala, MD, FARS and Troy Woodard, MD, FARS

Panelists: Sandra Brooks, MD; Claire Hopkins, MD

9:30 am - 9:40 am

Anatomy, physiology, psychology, pathology of the female vs male

nose and sinuses

Speaker: Devyani Lal, MD, FARS

9:40 am - 9:50 am

Sex-based differences in access and outcomes in rhinology and neurorhinologic procedures

Speaker: Vijay Ramakrishnan, MD, FARS

9:50 am - 10:00 am

Guidelines in managing rhinologic pathology in pregnancy

Speaker: Satish Govindaraj, MD, FARS

10:00 am - 10:30 am

Break with Exhibitors in Franklin Hall

Sinus Surgery I

Moderators: Kristine Smith, MD; Zachary Soler, MD, FARS; Abtin Tabaee, MD, FARS

10:30 am - 10:36 am

Medical and surgical treatments of chronic rhinosinusitis share common mechanisms of action

Audrey Pelletier, PhD

10:37 am - 10:43 am

Systematic review: biologics versus surgery in CRSwNP

Nirushan Narendran

10:44 am - 10:50 a

Bioabsorbable drug eluting microsponge for frontal sinus surgery

Tripti Brar

10:51 am - 10:57 am

Effect of nasal packing saturated with ciprofloxacin and dexamethasone following sinus surgery

Norman Orabi, MD

10:58 am - 11:15 am

Q&A

Sinus Surgery II

Moderators: Mark Arnold, MD; Philip Chen, MD, FARS; Ashleigh Halderman, MD, FARS

11:15 am - 11:21 am

Comparison of endoscopic Draf 2 and Draf 3 procedure outcomes in CRSwNP

Samuel Racette, MD

11:22 am - 11:28 am

Maxillary sinus volume changes after surgery in silent sinus syndrome

Juan Carlos Hernaiz

11:29 am - 11:35 am

The effectiveness of postoperative gabapentin for reduction of opioid consumption and pain control

Hong-Ho Yang

11:36 am - 11:42 am

Tobacco use increases the risk of CRS among patients undergoing ESS

Amarbir S. Gill, MD

11:43 am - 11:49 am

The impact of resident and fellow participation on outcomes following endoscopic sinus surgery

Karandeep Randhawa

11:50 am - 12:00 pm

Q&A

12:00 pm - 1:00 pm

Lunch with Exhibitors in Franklin Hall

12:00 pm - 1:00 pm

Women in Rhinology/Diversity & Inclusion/Mentorship/Residents and Fellows Luncheon

Guest Speaker: Simone S. Hicks, JD

"Medical Contracts and Negotiations from a Legal Perspective"

Salon E

September 9-10, 2022 | Philadelphia, PA



PROGRAM AT A GLANCE

Saturday, September 10, 2022

8:00 am – 12:00 pm Breakout C Salon C/D

7:00 am - 8:00 am

Meet the Authors Poster Viewing & Breakfast

Franklin Hall

Allergy and Immunology in Rhinology Section

8:00 am - 8:45 am

Panel: Climate change is its effect on rhinologic disease

Moderator: Jean Kim, MD, FARS

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

Luong MD, PhD, FARS; Darryn Waugh, MD; Ben Zaitchik, MD

8:45 am - 9:15 am

Immune Deficiencies and sinusitis Moderator: Chadi Makary, MD, FARS

Panelists: Antoine Azar, MD; Sandra Lin, MD, FARS

Allergy and Rhinitis

Moderators: Charles Ebert, MD, FARS; Katie Phillips, MD;

Joshua Levy, MD, FARS

9:15 am - 9:21 am

Cost-effectiveness of inferior turbinate reduction vs immunotherapy

for allergic rhinitis

Michael Yong, MD

9:22 am - 9:28 am

Real-world SLIT persistence and adherence

Michelle Park

9:29 am - 9:35 am

Variability in sinonasal allergen deposition explains asymmetric

involvement in CCAD

Daniel Spielman, MD

9:36 am - 9:42 am

Vidian nerve diameter: A possible association with chronic rhinitis

diagnosis

Megha Chandna

9:43 am - 9:49 am

Cost-effectiveness of in-office posterior nasal nerve ablation

Anirudh Saraswathula

9:50 am - 10:00 am

Q&A

10:00 am - 10:30 am

Break with Exhibitors in Franklin Hall

Smell and Taste

Moderators: Daniel Beswick, MD, FARS; Sanjeet Rangarajan, MD, FARS;

Carol Yan, MD

10:30 am - 10:36 am

Social determinants of health and olfactory dysfunction in older

adults: A population-based analysis

Eli Stein

10:37 am - 10:43 am

Correlation of computed tomography scores to measures of

olfaction

Tiffany Chen

10:44 am - 10:50 am

Will septoplasty improve my sense of smell? A prospective

observational study

Grant Gillman

10:51 am - 10:57 am

Gabapentin for COVID-19 induced Parosmia

Do-Yeon Cho, MD

10:58 am - 11:04 am

Taste loss correlation with cognition

Shahzeb Hasan

11:05 am - 11:15 am

Q&A

Rhinosinusitis Diagnosis and Associated Conditions

Moderators: David Jang, MD, FARS; Edward Kuan, MD, FARS; Mindy

Rabinowitz, MD, FARS

11:15 am - 11:21 am

Increased prevalence of eosinophilic esophagitis in patients with

CRS

Arthur Wu, MD, FARS

11:22 am - 11:28 am

Inflammatory endotype of odontogenic sinusitis

John Craig, MD, FARS

11:29 am - 11:35 am

Evaluation and work-up of immunodeficiencies in recurrent acute

rhinosinusitis: A scoping review

Jessica Lin

September 9-10, 2022 | Philadelphia, PA

American Rhinologic Society

PROGRAM AT A GLANCE

11:36 am - 11:42 am

Importance of sinus cultures in patients with acute exacerbations of CRS

Jessa Miller, MD

11:43 am - 12:00 pm

Q&A

12:00 pm - 1:00 pm

Lunch with Exhibitors in Franklin Hall

12:00 pm - 1:00 pm

Women in Rhinology/Diversity & Inclusion/Mentorship/Residents and Fellows Luncheon

Guest Speaker: Simone S. Hicks, JD

"Medical Contracts and Negotiations from a Legal Perspective"

Salon E

Saturday, September 10, 2022

8:00 am - 2:45 pm Breakout D Salon K/L

7:00 am - 8:00 am

Meet the Authors Poster Viewing & Breakfast

Franklin Hall

Rhinology All Around

Moderators: Stephanie Joe, MD, FARS; Jonathan Mallen, MD; Theodore Schuman, MD, FARS

8:00 am - 8:06 am

Hospital ownership status effect on nasal bone fracture outcomes and cost of care

Maham Ahmad

8:07 am - 8:13 am

Clinical characteristics of patients with TMJ arthritis presenting as CRS

Norman Orabi, MD

8:14 am - 8:20 am

A quantitative approach to measurement of nasal medication irrigation

Jeffrey J. Falco

8:21 am - 8:27 am

Teaching sinus anatomy: efficacy of self-directed online sinonasal anatomy learning modules

Eric Bailey, MD

8:28 am - 8:34 am

Feedback improves E/M billing

Amarbir Gill, MD

8:35 am - 8:45 am

Q&A

8:45 am - 9:25 am

Panel: Moving rhinology forward - high impact rhinology research

Moderator: Stephanie Shintani-Smith, MD

Panelists: Benjamin Bleier, MD, FARS; Murray Ramanathan, MD, FARS;

Bruce Tan, MD, FARS

Cerebrospinal Fluid Leaks and Biomarkers

Moderators: Edward El Rassi, MD; Tran Locke, MD; Sonya Marcus, MD

9:25 am - 9:31 am

Assessment of CSF biomarkers for cognitive impairment in patients with sinonasal inflammation

Nathaniel Reeve

9:32 am - 9:38 am

Optic nerve sheath diameter correlates to intracranial pressure in spontaneous CSF leak patients

Ashwini Tilak

9:39 am - 9:45 am

Multi-institutional spontaneous CSF leak case-control study

Pedro Escobedo

9:45 am - 9:51 am

Subjective symptoms and signs of postoperative cerebrospinal fluid

leak

Jonathan Pang, MD

9:51 am - 10:00 am

Q&A

10:00 am - 10:30 am

Break with Exhibitors in Franklin Hall

10:30 am - 11:15 am

Panel: ARS society structure - how to get involved!

Moderator: Joshua Levy, MD, FARS

Panelists: Amber Luong, MD, PhD, FARS; Brent Senior, MD, FARS;

Timothy Smith, MD, FARS; Michael Stewart, MD, FARS

Basic and Translational Science

Moderators: Naveen Bhandarkar, MD, FARS; Do-Yeon Cho, MD; Esther

Kim, MD

11:15 am - 11:21 am

Interferon-induced olfactory mucosal inflammation elicits an immune response in the olfactory bulb

Andrew Lane, MD, FARS

September 9-10, 2022 | Philadelphia, PA



PROGRAM AT A GLANCE

11:22 am - 11:28 am

Simvastatin as a topical anti-inflammatory

Nyssa Farrell, MD

11:29 am - 11:35 am

Impact of topical probiotics on differentiated human nasal epithelial cell function and viability

Juliana Theorell

11:36 am - 11:42 am

Host immune response differences to fungus in healthy subjects and sinus mycetoma patients

Estephania Candelo

11:43 am - 12:00 pm

Q&A

12:00 pm - 1:00 pm

Lunch with Exhibitors in Franklin Hall

12:00 pm - 1:00 pm

Women in Rhinology/Diversity & Inclusion/Mentorship/Residents and Fellows Luncheon

Guest Speaker: Simone S. Hicks, JD

"Medical Contracts and Negotiations from a Legal Perspective"

Salon E

1:00 pm - 1:45 pm

Panel: Cough -- where does the rhinologist fit in?

Moderator: Abtin Tabaee, MD, FARS

Panelists: John Bosso, MD; Rakesh Chandra, MD, FARS; Patricia Loftus,

MD, FARS; Anais Rameau, MD

1:45 pm - 2:00 pm

HOT TOPICS: Central compartment atopic disease: recent evidence,

knowledge gaps, future understanding

Speaker: John Del Gaudio, MD, FARS

Health Disparities, Disease Burden, and Patient Outcomes

Moderators: Regan Bergmark, MD, FARS; Victoria Lee, MD; Elina Toskala, MD, FARS

2:00 pm - 2:06 pm

Health disparities among adults with sinusitis in the United States

Eric Wei, MD

2:07 pm - 2:13 pm

The impact of priming on rhinologic patient reported outcome measures

Nathan Yang

2:14 pm - 2:20 pm

Correlation between SNOT-22 and cardinal symptom composite scores in CRS

Brent Senior, MD, FARS

2:21 pm - 2:27pm

Chronic rhinosinusitis productivity and activity impairment

Vivek Pandrangi, MD

2:28 pm - 2:34 pm

Validation of the novel postoperative polyp scale (POPS)

Arthur Wu, MD, FARS

2:35 pm - 2:45 pm

Q&A

2:45 pm - 3:15 pm

Break with Exhibitors in Franklin Hall

Saturday, September 10, 2022

3:15 pm – 5:00 pm General Session Salon H/I/J

3:15 pm - 3:25 pm

Business Meeting & Presidential Citations

Michael Stewart, MD, FARS; Rodney Schlosser, MD, FARS

3:25 pm - 3:30 pm

Introduction of Hwang Family Lectureship

Peter Hwang, MD, FARS

3:30 pm - 4:15 pm

Hwang Family Lectureship

Guest Speaker: James Stankiewicz, MD, FARS

"Mentorship... It Goes Both Ways"

4:15 pm - 5:00 pm

ARS/AAOA Panel - The Future of Rhinology

Moderator: Jennifer Villwock, MD

Panelists: Dana Crosby, MD, FARS; Sandra Lin, MD, FARS; Anju Peters,

MD; James Stankiewicz, MD, FARS

Meeting Adjourns

September 9-10, 2022 | Philadelphia, PA



PROGRAM AT A GLANCE

POSTERS

Poster 001

Adjuvant chemoradiation therapy following surgical resection of sinonasal malignancies

Lena Kheir, BA

Poster 002

Adoption of posterior nasal nerve cryoablation as a treatment for rhinitis

Allan Wang

Poster 003

Adverse events following endoscopic sinonasal surgery

Ariel Omiunu

Poster 004

Age in acute rhinosinusitis

Aman M. Patel, BS

Poster 005

Ameloblastoma transnasal endoscopic resection

Neeraj Suresh, BS

Poster 006

Anemia in skull base fractures

Aman M. Patel, BS

Poster 007

Anemia in transsphenoidal pituitary surgery

Joel Feier, BA

Poster 008

Anteriorly based middle turbinate flap: A cadaveric study and case

Viraj M. Patel, MD

Poster 009

Association between intraoperative findings and post-ESS endotype in patients with CRS

Eli Stein

Poster 010

Association between research productivity and NIH funding in academic rhinology

Delphine Gardiner

Poster 011

Association between SARS-CoV-2 and other respiratory viruses in sudden smell loss

Marcel Miyake, MD, PhD

Poster 012

Association of allergic rhinitis and asthma with chronic rhinosinusitis and adenoiditis in children

Ian Sunyecz, DO

Poster 013

Asthma in endoscopic sinus surgery

Abhijit Bhattaru, BA

Poster 014

Attitudes of perioperative communication and patient safety in rhinology

Maria Armache, MD

Poster 015

Biologic use in nasal polyps

Jared Silver

Poster 016

Biphenotypic sinonasal sarcoma: Case report with literature review

Edie Threlkeld

Poster 017

Carcinosarcoma of the nasal cavity and paranasal sinuses: A review of the national cancer database

Jacob Harris, BA

Poster 018

Chronic rhinosinusitis symptoms in CRS patients before and during the COVID-19 pandemic

Michela Borrelli, BA

Poster 019

Clinical predictors of successful symptom improvement following eustachian tube balloon dilation

Hong-Ho Yang, BS

Poster 020

Comparing the severity of chronic rhinosinusitis symptoms before vs. during the COVID-19 pandemic

Jasmine Lin, BA

Poster 021

Complications of absorbable intranasal packing: An analysis of the MAUDE database

Meryl Kravitz, MD

Poster 022

COVID-19 and pituitary surgical volume trends

Mandy Salmon, BS

Poster 023

Craniopharyngioma outcomes in children versus adults

Mandy Salmon, BS

Poster 024

Cystic Fibrosis in pediatric chronic rhinosinusitis

Aman M. Patel, BS

September 9-10, 2022 | Philadelphia, PA



PROGRAM AT A GLANCE

Poster 025

Depression in benign pituitary neoplasm

Aman M. Patel, BS

Poster 026

Deviated nasal septum in chronic rhinosinusitis

Aman M. Patel, BS

Poster 027

Deviated nose entire framework approach

Mohsen Naraghi, MD, FARS

Poster 028

Delayed onset CSF rhinorrhea: An alternative presentation of post-

traumatic meningoencephalocele

Samantha Newman

Poster 029

Diabetes mellitus in orbital cellulitis

Joel Feier, BA

Poster 030

Disease-specific quality of life outcomes following anterior skull

base surgery

Amarbir Gill, MD

Poster 031

Disparities in access to healthcare

Robert Hagedorn, BS

Poster 032

Dupilumab impact on SNOT-22 items and association with objective

outcomes in CRSwNP

Joaquim Mullol, MD, PhD

Poster 033

Dynamics of dupilumab response in CRSwNP

Claire Hopkins, BMBCH, FRCS (ORLHNS)

Poster 034

Effects of delays in care in chronic rhinosinusitis patient's symptom

severity and Outcomes

Michela Borrelli, BA

Poster 035

Efficacy of olfactory training in treatment of post-viral vs post-

traumatic olfactory dysfunction

Krishna Hanubal, BS

Poster 036

Endoscopic transnasal stenting of an obliterated eustachian tube:

Case report of a novel technique

Victor Hsue, MD

Poster 037

Evaluation of PGISS Score as a measure of CRS disease activity

Subin Lim

Poster 038

Exacerbated host-immune responses by the interaction between

RV-C and the CDHR3 risk allele

Sunny Palumbo, PhD

Poster 039

Exploring sociodemographic factors in allergic fungal rhinosinusitis

Peter Debbaneh, MD

Poster 040

Gastro-esophageal reflux disease in transsphenoidal pituitary

surgery

Joel Feier, BA

Poster 041

Glomangiopericytoma: A case series

Natalie Schauwecker, MD

Poster 042

Granulomatosis with polyangiitis and chronic rhinosinusitis

Chengetai Mahomva, MD

Poster 043

Growth in endoscopic sinus cancer surgery over time

Sina Torabi, MD

Poster 044

Hospital frailty risk score as a predictor of postoperative outcomes

in sinonasal malignancies

Rema Anisha Kandula, MD

Poster 045

Hospital profit status in acute rhinosinusitis

Aman M. Patel, BS

Poster 046

Hospital region in pediatric acute rhinosinusitis

Joel Feier, BA

Poster 047

Hypothyroidism in endoscopic sinus surgery

Abhijit Bhattaru, BA

Poster 048

latrogenic rhinolith in a new American: Case report and review of the

literature

Daniel Mitchell, BS

Poster 049

Identification of dendritic cells in CRS-associated nasal polyps by

immunohistochemistry

Amelia Lawrence

Poster 050

WITHDRAWN

September 9-10, 2022 | Philadelphia, PA



PROGRAM AT A GLANCE

Poster 051

Improving accuracy of maxillary balloon dilation using virtual reality navigation: Proof of concept

Kevin Grafmiller, MD

Poster 052

Income in benign pituitary neoplasm

Aman M. Patel, BS

Poster 053

Income in Black and Hispanic patients with skull base fractures

Aman M. Patel, BS

Poster 054

Intrinsic nasal fibro-fat in rhinoplasty

Mohsen Naraghi, MD, FARS

Poster 055

Invasive fungal sinusitis - do topical steroids present a risk?

Jessica Bishop, MD

Poster 056

July effect in orbital cellulitis

Joel Feier, BA

Poster 057

Landmark and techniques for in-office sphenopalatine ganglion

Francesco Caruana

Trancesco Caruana

Poster 058

MAUDE database analysis for adverse events associated with eustachian tube dilation

Sarah Jeoung, BS

Poster 059

Medical malpractice trends in endoscopic orbital surgeries

Rachna Goli, BS

Poster 060

Medicating the olfactory cleft: Nasal spray vs. drops in kaiteki

position

Daniel Spielman, MD

Poster 061

Medication compliance in allergic fungal sinusitis of the frontal sinus and its impact on recurrence

Eun Jeong

Poster 062

Mepolizumab versus Dupilumab for chronic rhinosinusitis with polyps

Kent Tadokoro, MD

Poster 063

Metabolomics in sinusitis

Michael Armstrong, MD

Poster 064

Metastatic prostate cancer to the sinuses

Alexandra Michalowski, MD

Poster 065

WITHDRAWN

Poster 066

Modified technique significantly improves efficacy for in-office posterior nasal nerve ablation

Alexander Choi, MD

Poster 067

Musculoskeletal and connective tissue disease in orbital cellulitis

Anthony M. Saad, BA

Poster 068

Nasal cytology in patients treated with biologic therapies

Rafael Hijano, MD PhD

Poster 069

WITHDRAWN

Poster 070

Nasal polyps in pediatric chronic rhinosinusitis

Aman M. Patel, BS

Poster 07

Nonresponders to interleukin-5 inhibitors in CRSwNP

Maggie Donovan, Medical Student

Poster 072

Optimizing success in dacryocystorhinostomy

Hanna Luong, BS

Poster 073

Osteoradionecrosis of the skull base

Sunny Shah, Medical Student

Poster 074

Otolaryngologist perceptions of Al-based CT sinus interpretation

Conner Massey, MD

Poster 075

Outcomes of Dupilumab treatment in patients presenting with severe asthma or CRSwNP, over 65

Keisha Best, MS

Poster 076

WITHDRAWN

Poster 077

Patient versus provider Twitter perspectives on sinusitis

Shahzeb Hasan, BS

Poster 078

Pediatric chronic rhinosinusitis with Cystic Fibrosis

Matt Lelegren, MD

September 9-10, 2022 | Philadelphia, PA



PROGRAM AT A GLANCE

Poster 079

Pediatric retronasopharyngeal abscess causing erosive skull base osteomyelitis

Jordan Teitelbaum, DO

Poster 080

Pediatric transnasal odontoid resection: A single institution experience

Michael Ye, MD

Poster 081

Pituitary apoplexy and HIV Jennifer E. Douglas, MD

Poster 082

Preoperative laboratory testing in low-risk patients undergoing septorhinoplasty—A NSQIP study

Priyanka Singh, BA

Poster 082A

Presence of the CDHR3 risk allele in CRS patients increases the odds of sinun infections

Nirushan Narendran

Poster 083

Prevalence and associated factors of cognitive dysfunction in patients with chronic rhinosinusitis

Ashton Lehmann, MD

Poster 084

Price transparency for outpatient rhinology procedures

Vincent Abiona, MD, MPH

Poster 085

WITHDRAWN

Poster 086

Resident involvement as a predictor of complications in endoscopic sinus surgery

Bella Onwumbiko, MD

Poster 087

Rethinking invasive fungal rhinosinusitis

Amanda Bastien, MD

Poster 088

Retronasal olfaction in CRS

Joel James, BS

Poster 089

Retrospective study of angiofibroma

Mohsen Naraghi, MD, FARS

Poster 090

Rhinosinusitis in hematopoietic stem cell transplant patients

Yi-Tsen Lin, MD

Poster 091

Risk factors of venous thromboembolism following endonasal endoscopic skull base surgery

Cecilia Nguyen

Poster 092

Risk of inpatient epistaxis admission related to oral anticoagulation medication use

Margaret Mitchell, MD, MS-HPEd

Poster 093

Sex in acute rhinosinusitis

Aman M. Patel, BS

Poster 094

Sinonasal complications of SARS-CoV-2: A single center case series

Eric Lee

Poster 095

Sinus and skull base anatomic tool for junior trainees

Anirudh Saraswathula, MD, MS

Poster 096

Sinus involvement in chronic rhinosinusitis

Aman M. Patel, BS

Poster 097

Sinus involvement in pediatric acute rhinosinusitis

Joel Feier, BA

Poster 098

Sinus surgery versus biologic therapy in CRSwNP patients

Nirushan Narendran, MS

Poster 099

Sleep apnea in epistaxis

Joel Feier, BA

Poster 100

Social determinants of health (SDoH) and sino-nasal outcome test (SNOT-22) scores

Taylor Cave

Poster 101

Social media perceptions on the rhinology industry

David Moffatt

Poster 102

Socioeconomic disparities in the treatment and survival of sinonasal malignancies after surgery

Lena Kheir, BA

Poster 103

Solitary neurofibroma of the posterior septum

Luis Fernando Macias-Valle, MD, FARS

September 9-10, 2022 | Philadelphia, PA



PROGRAM AT A GLANCE

Poster 104

Staphylococcus aureus pathoadaptation in chronic rhinosinusitis Ghais Houtak, MD

Poster 105

WITHDRAWN

Poster 106

Surgical completeness in AERD patients

John Lee, MD

Poster 107

Surgical management of orbital lesions associated with GPA: Case report

Jillian O'Shaughnessy, BA, BS

Poster 108

Symptom-free days in patients with CRSwNP treated with dupilumab Claire Hopkins, BMBCH, FRCS (ORLHNS)

Poster 109

Systematic review of endoscopic management of sinonasal adenoid cystic carcinoma

Michael Ye, MD

Poster 110

The CRS mention the top ten most costly physical health condition with a prevalence of 11%

A H M Delwar, MBBS

Poster 111

The incidence of revision functional endoscopic sinus surgery in Pott's Puffy Tumor

Samantha Newman

Poster 112

The modification of the flow in the nose and the paranasal sinuses (PNS) before and after FESS-documented with Computional Fluid Dynamics

Jochen Schachenreiter, MD

Poster 113

The prevalence, duration, and outcome of anosmia in COVID-19 patients

Anas AL Tammas, MD

Poster 114

Toxic shock syndrome after sinonasal surgery: A systematic review Timothy Shim, MD

Poster 115

Transnasal endoscopic transpalatal advancement for the treatment of OSA

Kevin McLaughlin, MD

Poster 116

Transsphenoidal? The tumor is already filling the sphenoid!

Jordan Teitelbaum, DO

Poster 117

Trends in clinical trials for olfactory dysfunction in COVID-19

Vickie Wang

Poster 118

Twitter trends for sinusitis

Shahzeb Hasan, BS

Poster 119

Unilateral pediatric chronic rhinosinusitis

Matt Lelegren, MD

Poster 120

Urinalysis dipsticks for differentiating patients with diverse sinus complaints

Michela Borrelli, BA

Poster 121

Zygomatic implant salvage and treatment of implant-related CRS with medial maxillectomy

Gajaan Sittambalam, MSAnnual Residents