

PROGRAM AT A GLANCE

Friday, September 13, 2019 - 12:00 pm – 5:00 pm, Grand Ballroom A

12:00pm – 12:45pm

Ancillary Session Luncheons

12:45pm – 1:00pm

Welcome and Business Meeting

Robert Kern, MD, FARS

President Elect / Program Chair

1:00pm – 2:00pm

AAOA/ARS Panel

2:00pm – 2:15pm

Presidential Address

James Palmer, MD, FARS

2:15pm – 3:00 pm

Skull Base Panel #1

“Selecting Effective Treatment Options for Malignant Sinonasal Neoplasms”

Moderator: Jean Anderson Eloy, MD, FARS

Panelists: Devyani Lal, MD, FARS, Stacey T. Gray, MD, FARS, Zara M. Patel, MD, FARS

3:00pm – 3:30pm

Break with Exhibitors in Salon A

3:30pm – 4:10pm

Odontogenic Sinusitis Panel

Moderator: John Craig, MD, FARS

Panelists: David Poetker, MD, FARS, Stacey Gray, MD, FARS, Al Pokorny, MD, Jose Mattos, MD, Roderick Tataryn, DDS

4:10pm – 5:30pm

Endotypes and Phenotypes-Where are we now?

Moderator: Bruce Tan, MD

5:30pm-6:00pm

Fall Film FESStival

Moderator: Christopher Church, MD, FARS

6:00pm-8:00pm

Presidents Welcome Reception / Poster Presentation / Women in Rhinology / David W. Kennedy Lecturer



PROGRAM AT A GLANCE

**Saturday September 14, 2019, Breakout Room 1 - 8:00 am – 12:00pm,
Chart Ballroom A/B – Riverside Building**

AERD Session

Moderators: Zachary Soler, MD, FARS,
Nithin Adappa, MD, FARS, Edward Kuan,
MD

8:00am – 8:07am

**Treatment practices for aspirin
exacerbated respiratory disease:
Analysis of a national insurance claims
database**

Lauren Roland, MD, MSCI

8:07am – 8:14am

**Complete surgery followed by aspirin
desensitization decreases overall
corticosteroid use**

Edward C. Kuan, MD

8:14am – 8:21am

**Up front DRAF III frontal sinusotomy
results in sustained improvement in
sinonasal quality of life in patients with
aspirin exacerbated respiratory disease**

Peter Papagiannopoulos, MD

8:21am – 8:28am

**Aspirin exacerbated respiratory disease:
Longitudinal assessment of a large
cohort & implications of diagnostic delay**

Rijul Kshirsagar, MD

8:28am – 8:32am

Discussion

8:32am-9:29am

AERD Panel

Panelists: Tanya Laidlaw, MD, Rodney
Schlosser, MD, FARS

Olfaction and Skull Base Surgery

Moderators: Waleed Abuzeid, MBBS, Sammy
Khalili, MD, Stephanie Joe, MD, FARS

9:29am – 9:36am

**Olfactory-specific quality of life
outcomes after endoscopic endonasal
surgery of the sella**

Milap Raikundalia, MD

9:36am – 9:43am

**Olfactory function via sniffin sticks
following bilateral superior turbinate
resection**

William Yao, MD

9:43am – 9:50am

**Predictors of subjective olfactory
dysfunction after endoscopic
transphenoidal hypophysectomy**

Jake Lee, MD

9:50am-10:00am

Discussion

10:00am – 10:30am

Break with Exhibitors in Salon A

New Drugs/Devices

Moderators: William Yao, MD, J. Pablo
Stolovitsky, MD, FARS

10:30am – 10:37am

**VISUALIZE: A 24-Week, open-label study
using nasoendoscopic video to evaluate
the efficacy and safety of EDS-FLU 186
µg twice daily in adults with bilateral
nasal polyps**

William Yao, MD

10:37am – 10:44am

**Mometasone absorption in human nasal
airway epithelial cultures**

Tuong Nguyen, BS

10:44am – 10:51am

**Regional mass deposition of fluticasone
propionate (FP) delivered with exhalation
delivery system (EDS) device in
postsurgical chronic rhinosinusitis (CRS)
Draf III geometry estimated and
visualized by Computational Fluid
Dynamics (CFD)**

John Craig, MD, FARS

10:51am – 10:58am

**A Phase Ia tolerance and safety
evaluation of topical nitric oxide sinus
irrigation (NOSi) dose escalation in
individuals with recalcitrant chronic
rhinosinusitis (RCRS)**

India Dhillon, MScH

10:58am – 11:05am

**Drug-coating stability and release
kinetics of the ciprofloxacin-azithromycin
sinus stent**

Do-Yeon Cho, MD

11:05am – 11:11am

Discussion

Practical Issues/ Immunosuppression

Moderators: Ian Humphreys, DO, FARS,
Jarrett Walsh, MD, Christopher Le, MD, FARS

11:11am – 11:18am

**Lightening in a bottle: Comparison of
ultraviolet light to traditional sterilization
in saline irrigations bottles**

Qasim Husain, MD

11:18am – 11:25am

**The effect of topical epinephrine 1:1000
with and without infiltration of 1%
lidocaine with epinephrine 1:100,000 on
endoscopic surgical field visualization: a
double-blind randomized controlled
study**

Garret Choby, MD

11:25am – 11:32am

Discussion

11:32am – 11:39am

**Treatment with immune stimulating
therapies improves survival in chronic
invasive fungal sinusitis: A multi-
institutional review**

Ian Humphreys, DO, FARS

11:39am – 11:46am

**Atypical fungal infections affect
outcomes in acute invasive fungal
sinusitis: A multi-institutional review**

Ian Humphreys, DO, FARS

11:46am – 11:53am

**Outcomes in treatment of chronic and
recurrent acute rhinosinusitis in the
setting of medication induced
immunosuppression**

Zara Patel, MD, FARS

11:53am – 12:00pm

Discussion

12:00pm – 1:00pm

Lunch with Exhibitors in Salon A



Saturday September 14, 2019, Breakout Room 2 - 8:00 am – 12:00 pm, Chart Ballroom C – Riverside Building

Pain Session

Moderators: Arthur Wu, MD, FARS, Philip Chen, MD, FARS, H. Peter Doble, MD, FARS

8:00am – 8:07am

Effect of an evidenced based peri-operative pain protocol on postoperative opioid use after endoscopic sinus surgery

Jaxon Jordan, MD

8:07am – 8:14am

Effect of gabapentin pretreatment on peri-procedural pain during in-office posterior nasal nerve cryoablation

Steven Hoshal, MD

8:14am – 8:21am

A multicenter study on the effect of NSAIDs on postoperative pain after endoscopic sinus surgery

Arthur Wu, MD, FARS

8:21am – 8:28am

Opioid prescription and usage after rhinologic surgery: A systematic review

John Zheng, MD

8:28am - 8:35am

Discussion

Health Economics

Moderators: Joshua, Levy, MD, PhD, FARS, Adam De Conde, MD, Richard Lebowitz, MD, FARS

8:35am – 8:42am

Complications after endoscopic sinus surgery in smokers: A 2005-2016 NSQIP analysis

Jordan Teitelbaum, DO

8:42am – 8:49am

Developing consistent epistaxis management in the emergency department: Clinical care pathway utilization reduces transfers and improves care

Clare Richardson, MD

8:49am – 8:56am

Cost analysis of endoscopic sinus surgery for chronic rhinosinusitis: In-office based procedures versus traditional operating room endoscopic sinus surgery

Aliasgher Khaku, MD, MBA

8:56am 9:03am

A Multi-centre prospective study investigating the management of periorbital cellulitis

Sridhayan Mahalingam, MRCS (ENT)

9:03-9:10am

Operative time and cost estimation itemized by component procedures of endoscopic sinus surgery

Andrew J. Thomas, MD

9:10am-9:21am

Discussion

Polyps and Revision Surgery Session

Moderators: Marc Dubin, MD, FARS, Peter Manes, MD, FARS, Charles Tong, MD

9:21am – 9:28am

Patient and surgeon factors impacting revision surgery rates in chronic rhinosinusitis with nasal polyposis

Catherine Loftus, MS

9:28-9:35am

Histopathologic influences of tissue eosinophilia among chronic rhinosinusitis patients

Ashwin Ganti, BA

9:35am – 9:42am

Predictors of efficacy for combination oral and topical corticosteroids to treat patients with chronic rhinosinusitis with nasal polyps

Ahmad Sedaghat, MD, PhD

9:42am – 9:49am

Expected revision rates in chronic rhinosinusitis with nasal polyps: Meta-analysis of risk factors

Catherine Loftus, MS

9:49am – 10:00am

Discussion

10:00am – 10:30am

Break with Exhibitors in Salon A

Endotypes

Moderators: Amber Luong, MD, PhD, FARS, Justin Turner, MD, FARS, Thomas Higgins, MD, FARS

10:30am – 10:37am

Periostin: An emerging biomarker for CRS endotype and sinonasal quality of life

Ashton Lehmann, MD

10:37am – 10:44am

Central compartment atopic disease: Prevalence of asthma and allergy compared to other chronic rhinosinusitis with nasal polyp endotypes

Sonya Marcus, MD

10:44am – 10:51am

Dupilumab and CRS-np: A case series and observations on its efficacy in twenty-eight patients

Mr. Arjun Prasad

10:51am – 10:58am

Association of cough with asthma in chronic rhinosinusitis patients

Michael Marino, MD

10:58am – 11:05am

Subcutaneous nucala injection: An adjunctive treatment for recalcitrant allergic fungal rhinosinusitis

John Karp

11:05am - 11:10am

Discussion

11:10am – 12:00 pm

Biologics Panel

“Biologic therapy in the nasal polyp patient, from immunology to injection - A case-based discussion

Moderator: Sarah Wise, MD, FARS

Panelists: Cecelia Damask, DO, Joseph Han, MD, FARS, Douglas Reh, MD, FARS, Lauren Roland, MD

12:00pm – 1:00pm

Lunch with Exhibitors in Salon A

PROGRAM AT A GLANCE

**Saturday September 14, 2019, Breakout Room 3 - 8:00 am – 12:00 pm,
Quarterdeck A/B – Riverside Building**

Olfaction Session

Moderators: Justin Turner, MD, FARS,
Jivianne Lee, MD, FARS

8:00am – 8:07am

Factors driving olfactory loss in patients with chronic rhinosinusitis: A case control study
Rodney Schlosser, MD, FARS

8:07am – 8:14am

The use of platelet-rich plasma in treatment of olfactory dysfunction, a pilot study
Carol Yan, MD

8:14am – 8:21am

Short-term chronic rhinosinusitis medical management: Differential impact on quality of life and olfaction
Andrew Thomas, MD

8:21am – 8:28am

Olfactory cleft mucus inflammatory proteins and olfaction in chronic rhinosinusitis
Frederick Yoo, MD

8:28am – 8:38am

Discussion

Economics and Outcomes Skull Base

Moderators: Edward McCoul, MD, FARS,
John Schneider, MD, Eric Wang, MD, FARS

8:38am – 8:45am

Association of sellar mass proliferative markers with radiographic features and clinical outcomes
Robert Liebman, MD

8:45am – 8:52am

Predicting readmission after endoscopic trans-sphenoidal pituitary surgery using machine learning
Christopher Puchi, BS

8:52am – 8:59am

Predicting prolonged length of stay after endoscopic transsphenoidal surgery for pituitary adenoma
Swar Vimawala, BS

8:49am – 8:56am

Economic implications of diagnostic strategies for cerebrospinal fluid rhinorrhea
Christopher Pool, MD

9:06am – 9:16am

Discussion

Microbiome

Moderators: Dana Crosby, MD, Charles Ebert, MD, FARS, Jordan Glicksman, MD

9:16am – 9:23am

Kappa-carrageenan sinus rinses reduce inflammation and intracellular Staphylococcus aureus infection in airway epithelial cells
Ms. Catherine Bennett

9:23am – 9:30am

Association of the sinonasal microbiome with clinical outcomes in chronic rhinosinusitis: A systematic review
James Wang, MD, PhD

9:30am – 9:37am

Long term outcomes of maximal medical management of chronic rhinosinusitis: Paving the way for more accurate cost effectiveness comparisons
George Scangas, MD

9:37am – 9:44am

Collapse of bacterial diversity of the sinus microbiome differentiates poor from good-evolution after ESS for CRS
Axel E. Renteria, MD, MSc

9:44 am – 10:00 am

Discussion

10:00am – 10:30am

Break with Exhibitors in Salon A

QOL I

Moderators: Stella Lee, MD, Stacey Gray, MD, FARS, Anthony DelSignore, MD

10:30am – 10:37am

Sexual health in patients with chronic rhinosinusitis and the effect of endoscopic sinus surgery
Arthur Wu, MD, FARS

10:37am – 10:44am

Acute exacerbations in recurrent acute rhinosinusitis: Differences in quality-of-life and endoscopic exam
Daniel Beswick, MD

10:44am – 10:51am

The relationship between sinonasal and disease specific quality of life in cystic fibrosis
Chetan Safi

10:51am – 10:58am

Differential perception and tolerance of chronic rhinosinusitis symptoms as a confounder of gender-disparate disease burden
Katie Phillips, MD

10:58am – 11:05am

Does age impact long term outcomes in chronic rhinosinusitis?
Thomas Holmes, MD

11:05am – 11:10am

Discussion

QOL II

Moderators: Douglas Reh, MD, FARS,
Oswaldo Henriquez, MD, Monica Patadia, MD

11:10am – 11:17am

Modified Lund-Kennedy score as a predictor for significant symptom improvement after endoscopic sinonasal surgery
Yossawee Wangworawut, MD

11:17am – 11:24am

Development of a standardized assessment of patient reported outcomes following endoscopic sinus surgery for chronic rhinosinusitis
Connor Sommerfeld, MD

11:24am – 11:31am

Increased abundance of staphylococcus aureus characterizes microbiome in refractory CRS patients
Axel E. Renteria, MD, MSc

11:31am – 11:38am

Voice dysfunction in patients with chronic rhinosinusitis before and after endoscopic sinus surgery
Arthur Wu, MD, FARS

11:38am – 11:45am

Predictors of success in primary and revision endoscopic dacryocystorhinostomy
Ashton Lehmann, MD

11:45am – 11:59am

Discussion

12:00pm – 1:00pm

Lunch with Exhibitors in Salon A

Saturday September 14, 2019, Breakout Room 4, 8:00 am – 12:00 pm Kabacoff Room – Riverside Building

Basic Science Session

Moderators: Benjamin Bleier, MD, FARS,
Do-Yeon Cho, MD, Michael Kohanski, MD

8:00am – 8:07am

Barrier disruptive effects of mucus isolated from chronic rhinosinusitis

Stephen Kao, MBBS

8:07am – 8:14am

Measuring potential difference in the sinuses more accurately predicts acquired CFTR dysfunction in chronic rhinosinusitis

Do-Yeon Cho, MD

8:14am – 8:21am

Unexpected effects of systemic steroids on the CRSwNP proteome: Is protein upregulation more important than inhibition?

Alan D. Workman, MD, MTR

8:21am – 8:28am

Identification of significant poly-omic and functional upregulation of the PAPP-A/IGFBP/IGF axis in CRSwNP

Sarina Mueller, MD

8:28am – 8:35am

Reversal of smoking induced nasal mucosal changes after quitting smoking

Samy Elwany, MD

8:35am-8:53am

Discussion

Skull Base Basic Science and Clinical

Moderators: Jose Gurrola II, MD, Bradford Woodworth, MD, FARS, Jeb Justice, MD, FARS

8:53am – 9:00am

A metagenomic analysis of the virome of inverted papilloma and squamous cell carcinoma: Prevalence of HPV18-E6

Charles Tong, MD

9:00am – 9:07am

Is the Dulguerov staging system superior to Kadish for olfactory neuroblastoma? An individual participant data meta-analysis

Mark Arnold, MD

9:07am – 9:14am

Comprehensive genomic profiling demonstrates low tumor mutational burden in olfactory neuroblastoma

Jacob Friedman, MD

9:14am – 9:21am

Constellation of cellular changes following acute exposure to external beam radiotherapy

Mr. Phillip Gall

9:21-9:25am

Discussion

9:25am – 9:32am

Application of holographic augmented reality for external approaches to the frontal sinus

Caio Neves, MD

9:32am – 9:39am

Assessment of emotional well-being in patients treated for sinonasal malignancies

Alexander Graf, BS

9:39 am – 9:46am

The role of neoadjuvant therapy in the management of non-squamous cell carcinoma sinonasal malignancies: A national perspective

Zaid Al-Qurayshi, MD, MPH
Presented by Andrew Liu, MD

9:46am - 10:00am

Discussion

10:00am – 10:30am

Break with Exhibitors in Salon A

Draf III Session

Moderators: Eric Wang, MD, FARS, Jeffrey Suh, MD, Jonathan Ting, MD, FARS

10:30am – 10:37am

DRAF III leads to sustained improvement in sinonasal quality of life

Peter Papagiannopoulos, MD

10:37am – 10:44am

Eosinophilic chronic rhinosinusitis managed by the creation of functional neosinus cavity and post-operative corticosteroid irrigation care

William Li, MBBS

10:44am – 10:51am

Free mucosal grafts and anterior pedicled flaps to prevent ostium restenosis after endoscopic modified Lothrop (frontal drillout) procedure: A randomized controlled study

Ying-Piao Wang, MD, PhD

10:51am – 10:58am

Discussion

Misc

Moderators: Henry Barham, MD, FARS,
Leigh Sowerby, MD, Dana Crosby, MD

11:03am – 11:10am

Medial flap turbinoplasty: Revisiting safety and efficacy

Michelle Menon-Miyake, MD

11:10am – 11:17am

Complete middle turbinate resection is unlikely to cause empty nose syndrome in the first year postoperatively

Richard Law, MD

11:17am – 11:24am

Characteristics and treatment outcomes of suspected mast-cell activation syndrome with sino-nasal obstruction: A single institution experience

Jeehong Kim, MD

11:24am – 11:31am

Topography of polyp recurrence in eosinophilic chronic rhinosinusitis

Jessica Grayson, MD

11:31am – 11:36am

Discussion

11:36am – 11:43am

The effect of continuous positive airway pressure on the nasal cavity

Erin Reilly, MD

11:43am – 11:50am

A retrospective study of the efficacy and safety of balloon eustachian tuboplasty

Camilla Stepniak, MD

11:50am – 11:57am

Discussion

12:00pm – 1:00pm

Lunch with Exhibitors in Salon A

Saturday, September 14, 2019 - 12:00 pm – 6:00 pm, Grand Ballroom A

12:00pm – 1:00pm

COMPASS ROOM, RIVERSIDE BUILDING
Women in Rhinology, Mentorship Program and Resident's & Fellows Combined Lunch Program "Coaching Resiliency in Residents and Preventing Physician Burnout"

Guest Speaker: Maisie Shindo MD
 Professor of Otolaryngology - Head and Neck Surgery
 Surgical Director of the Thyroid and Parathyroid Center
 Oregon Health and Science University

1:00pm – 1:55pm

15th Annual David W. Kennedy Lectureship

Invited Guest Speaker: Robert Schleimer, PhD
"Mechanisms of Pathogenesis of Chronic Rhinosinusitis"

TOP ABSTRACTS:

Moderators: Benjamin Bleier, MD, FARS, Amber Luong, MD, PhD, FARS, Do-Yeon Cho, MD

2:00pm – 2:08pm

The presence of virus significantly associates with chronic rhinosinusitis disease severity
 Rachel Goggin, MBBS

2:08pm – 2:16 pm

Chronic inflammation directs an olfactory stem cell functional switch from neuroregeneration to immune defense

Andrew Lane, MD, FARS

2:16pm – 2:24pm

Longitudinal stability of chronic rhinosinusitis endotypes

Kristen Yancey, MD

2:24pm-2:30pm

Discussion

2:30pm – 2:38pm

Controlled delivery of ciprofloxacin and ivacaftor via sinus stent in a preclinical model

Do-Yeon Cho, MD

2:38pm – 2:46pm

Loss of BMI1 in mature olfactory sensory neurons leads to increased olfactory basal cell proliferation

Rhea Choi, MD, PhD

2:46pm-2:54pm

Gene correction of the Df508 CFTR mutation in human airway stem cells as a novel cell-based treatment strategy for cystic fibrosis

Jayakar Nayak, MD, PhD

2:54pm-3:00pm

Discussion

3:00pm – 3:30pm

Break with Exhibitors in Salon A

3:30pm-4:15pm

Skull Base Panel #2

"How I do it: Providing Endoscopic Exposure and Resection of Skull Base Neoplasms"

Moderator: Roy Casiano, MD, FARS
 Panelists: Corrina Levine, MD, FARS, Bradford Woodworth, MD, FARS, Adam Zanation, MD

4:15pm – 6:00pm

AAO Panel 'Ask the Experts – An Endoscopic Potpourri'

Moderator: David Kennedy, MD
 Panelists: Peter J. Wormald, MD, Benjamin Bleier, MD, FARS, Eugenia Vining, MD, Elina Toskala, MD, FARS, James Palmer, MD, FARS, Timothy Smith, MD, FARS

Cocktails from 6-7pm

Accreditation Statement

The American Rhinologic Society (ARS) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit Designation Statement:

ARS designates this live activity for a maximum of 13.25 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

