Thursday April 23, 2020

AM Session

Grand East Ballroom

7:55am - 8:00am
Welcome

Moderators: Angela Donaldson MD, FARS & Alyssa Kannan, MD

8:00am - 8:07am
Predictors of objective olfactory dysfunction following sinus surgery
David S. Lehmann, BS

8:07am - 8:14am
Mechanisms governing NSD symptoms
Jennifer Malik, PhD

8:14am - 8:21am
Elevated urine leukotriene E4 levels associated with worsened objective asthma and CRS markers
Garret Choby, MD, FARS

8:21am - 8:28am
Clinical effectiveness of Benralizumab in severe asthma and chronic rhinosinusitis with nasal polyps
Chandala Chitguppi, MD

8:28am - 8:33am
Q&A

Moderators: Angela Donaldson MD, FARS & Alyssa Kannan, MD

9:01am – 9:05am
Q&A

Moderators: Carol Yan, MD & Dana Crosby, MD, FARS

9:05am - 9:12am
IMPA redirects airflow and improves ENS symptomology: A CFD study
Jennifer Malik, PhD

9:12am - 9:19am
The detrimental effects of olfactory dysfunction as a non-motor symptom of Parkinson’s Disease
Patrick Kim

9:19am - 9:26am
On-demand sclerotherapy for HHT-related epistaxis
Andrew Peterson, Medical Student

9:26am 9:33am
Natural language processing phenotype algorithm in CRS
Robert Tuliszewski, MD

9:33am - 9:40am
Asthma control in patients with and without nasal polyps on biologic therapy
Prachi Patel, BA

9:40am - 9:45am
Q&A

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

Moderators: Garret Choby, MD, FARS & Ian Humphreys, DO, FARS

10:15am - 10:22am
Olfactory function after surgical treatment of CRS
Jose Mattos, MD, MPH

10:22am - 10:29am
Complications of aspirin desensitization in aspirin-exacerbated respiratory disease
Audie Sweis, MD

10:29am - 10:36am
Non-sponsored evaluation of cryosurgical ablation device for rhinitis
Rohit Garg, MD, MBA, FARS

10:36am - 10:43am
The effect of pre-operative steroids on surgical field visibility during sinus surgery
Sen Ninan, BA

10:43am - 10:48am
Q&A

Moderators: Theodore Schuman, MD, FARS & Jeffrey Suh, MD

10:48am - 10:55am
Unbiased measure of health-related qol in CRS reveals dominant modifiers in qol
Madison Epperson, BA

10:55am - 11:02am
Treatment outcomes in patients with chronic rhinosinusitis and immunodeficiency: A systematic review
Shireen Samargandy, MBBS

11:02am - 11:09am
Nasal nerve ablation, swell body and turbinate reduction for nasal obstruction / congestion relief
Victor Kizhner, MD

11:09am - 11:16am
Quantification of biomarker heterogeneity in control specimens used for analysis in CRS
Taylor Carle, MD

11:16am - 11:23am
Prevalence of olfactory and neurocognitive dysfunction in patients with subjective smell disorder
Justin Morse, MD

11:23am - 11:28am
Q&A

11:28am - 12:00pm
Panel: Update in coding/Medicare CT imaging
Moderator: Seth Brown, MD, FARS
Panelists: Abtin Tabaei, MD, FARS, J. Pablo Stolovitzky, MD, FARS, Parul Goyal, MD, FARS

12:00pm - 1:00pm
Lunch with Exhibitors
Thursday April 23, 2020
PM Session
Grand East Ballroom

Adam DeConde, MD & Jose Gurrola II, MD
1:00pm - 1:07 PM
IL-13 acts on human sinonasal epithelial basal cells to increase hypoxia-associated gene expression
Syed Khalil, PhD

1:07pm - 1:14pm
Viral Induced SCC expansion
Elizabeth McCarty

1:14pm - 1:21pm
IL-17A levels are associated with increased prior ESS
Nikita Chapurin, MD, MHS

1:21pm - 1:28pm
DMBT1 is the endogenous carrier ligand for eosinophil death receptor Siglec-8 in nasal polyps
Jean Kim, MD, PhD, FARS

1:28pm - 1:35pm
Submucosal gland morphology and secretory cell identities are aberrant in chronic rhinosinusitis
Onyekachi Nnabue, Medical Student

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

Moderators: Jennifer Villwock, MD & Do-Yeon Cho, MD

1:40pm - 1:47pm
Broad lipidomic analysis of patients with AERD undergoing aspirin desensitization
Adam DeConde, MD

1:47pm - 1:54pm
Cell adhesion molecule expression in chronic rhinosinusitis
Brennan Blight, BS

1:54pm - 2:01pm
Macrophages regulate olfactory regeneration through the IL-6/Stat3 pathway
Andrew Lane, MD, FARS

2:01pm - 2:08pm
Electrical stimulation of olfactory neurons may improve regeneration after damage
Zara Patel, MD, FARS

2:08pm - 2:13pm
Q&A

2:13pm - 2:45pm
Panel: Clinical Importance of Bench Research
Moderator: Andrew Lane, MD, FARS
Panelists: Justin Turner, MD, FARS; Stella Lee, MD; Benjamin Bleier, MD, FARS; Erin O’Brien, MD, FARS

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

Moderators: Lauren Roland, MD & Amber Luong, MD, PhD, FARS

3:15pm - 3:22pm
Predictors of rhinorrhea response after posterior nasal nerve cryoablation for chronic rhinitis
Frederick Yoo, MD

3:22pm - 3:29pm
Denatonium benzoate bitter taste perception in chronic rhinosinusitis (CRS)
Alyssa Civantos, BA

3:29pm - 3:36pm
Solitary chemosensory cells and its relation to cholinergic innervation
Jie Deng, MD

3:36pm - 3:43pm
Beta-amyloid plaques in murine olfactory bulbs during chronic olfactory inflammation
Andrew Lane, MD, FARS

3:43pm - 3:50pm
Under Pressure: Differentiating CRS from non-rhinologic facial pain with facial and nasal symptoms
Thomas Higgins, MD, MSPH, FARS

3:50pm - 3:55pm
Q&A

3:55pm - 4:02pm
TSLP and type 2 inflammatory cytokines in CRS, emerging endotypes
Joel Franco, MD

4:02pm - 4:09pm
Mepolizumab in eosinophilic chronic rhinosinusitis
Sophie Walter, Medical Student

4:09pm - 4:16pm
Anti-inflammatory properties of azithromycin in human nasal epithelia
Dong Lim, PhD

4:16pm - 4:23pm
Sinonasal inflammatory gene expression correlates with sleep dysfunction in CRSwNP
Katherine Lees, MD

4:23pm - 4:28pm
Q&A

4:28pm - 4:50pm
Panel: Biologic and CRS
Moderator: Jivianne Lee, MD, FARS
Panelists: Elena Toskala, MD, FARS; Kent Lam, MD; Jean Kim, MD, FARS; Rodney Schlosser, MD, FARS
Friday April 24, 2020

**PM Session**

**Salon East**

12:55pm - 1:00pm
Welcome

*Moderators: Naveen Bhandarkar, MD, FARS & Corinna Levine, MD, FARS*

1:00pm - 1:07pm
A randomized clinical trial to evaluate mometasone lavage versus spray for management of CRS
Pawina Jiramongkolchai, MD

1:07pm - 1:14pm
A novel device combining acoustic vibration and expiratory pressure for nasal congestion
Rodney Schlosser, MD, FARS

1:14pm - 1:21pm
Long-term follow up of nasal nitric oxide in chronic rhinosinusitis
Daniel Lee, MD

1:21pm - 1:28pm
Surgeon cost feedback reduces cost in sinonasal surgery
Amarbir Gill, MD

1:28pm - 1:33pm
Q&A

1:33pm - 1:40pm
Histopathologic markers are not associated with QOL or olfactory function in patients with CRS
Nyssa Farrell, MD

1:40pm - 1:47pm
Otologic outcomes after sinus surgery for chronic rhinosinusitis
Michael Chang, MD

1:47pm - 1:54pm
Systematic review: Objective smell and taste in eating disorders
Evelyn Leland, BS

1:54pm 2:01pm
Clinical correlation of 15LO1 and CCL26 in CRSwNP
Nadeem Kolia, MD

2:01pm - 2:13pm
Q&A and Awards Presentation

2:13pm - 2:45pm
Panel: Cystic fibrosis CRS: Past, present, and future
Moderator: David Gudis, MD, FARS
Panelists: Frank Virgin, MD, FARS; Emily Dimango, MD; Do-Yeon Cho, MD

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

*Moderators: David Jang, MD, FARS & Ashutosh Kacker, MD*

3:15pm - 3:22pm
Educational informed consent video non-inferior to standard verbal consent for FESS: A RCT
Rohit Nallani, MD

3:22pm - 3:29pm
Evaluating the safety of mometasone nasal lavage for patients with CRS
Pawina Jiramongkolchai, MD

3:29pm - 3:36pm
Olfactory dysfunction and loneliness
Vincent Desiato, DO

3:36pm - 3:43pm
Surgical outcomes in aspirin-exacerbated respiratory disease without aspirin desensitization
Elysia Grose, MD

3:43pm - 3:50pm
Gender and age differences in aspirin-exacerbated respiratory disease
Tran Locke, MD

3:50pm – 3:55pm
Q&A
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<th>Poster Number</th>
<th>Title</th>
<th>Authors</th>
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<td>D001</td>
<td>A case of orbital mucocoele after endoscopic sinus surgery</td>
<td>Daniel Arkfeld, MD</td>
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<td>D002</td>
<td>A patient with cholesterol granuloma in the maxillary sinus: a case report</td>
<td>Ryo Suzuki, MD, PhD</td>
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<td>D003</td>
<td>A rare case of basaloid squamous cell carcinoma arising from the anterior nasal septum</td>
<td>Macaulay Ojeaga</td>
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<td>D004</td>
<td>A systematic review of diet modification for treatment of aspirin exacerbated respiratory disease</td>
<td>Rijul Kehirsagar, MD</td>
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<td>D005</td>
<td>Acute frontal sinusitis in a child presenting with acute ischemic stroke</td>
<td>Wesley Davison, MD</td>
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<td>D006</td>
<td>ADSC regulate immune states and repair mucosal injury of AR mouse mode</td>
<td>Ying Wang, MD</td>
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<td>D007</td>
<td>African rhinoplasty versus Asian rhinoplasty average patient satisfaction</td>
<td>Chris Choi, BS</td>
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<td>D008</td>
<td>Allergic rhinitis in an active duty population</td>
<td>Danielle Anderson, DO</td>
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<td>D009</td>
<td>An elderly patient with bilateral, progressively growing, symptomatic nasolabial cysts</td>
<td>Asad Haider, BA</td>
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<td>D010</td>
<td>Assessing the efficacy and safety of balloon sinuplasty in elderly chronic rhinosinusitis patients</td>
<td>Macaulay Ojeaga</td>
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<td>D011</td>
<td>Assessment of clinical patterns associated with diagnosis of rhinologic disease</td>
<td>Sean Parsel, DO</td>
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<td>D012</td>
<td>Association of surgeon USNWR medical school rankings with outcomes after pituitary surgery</td>
<td>Chris Park</td>
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<td>D013</td>
<td>Atypical meningioma of the sinonasal tract</td>
<td>Linnea Fechtner, MD/MS</td>
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<td>D014</td>
<td>Automated skull base segmentation with atlas-based segmentation</td>
<td>Neeraja Konuthula, MD</td>
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<td>D015</td>
<td>Balloon dilation with stenting for management of fractures involving the frontal sinus outflow tract</td>
<td>Mark Nagui, BS</td>
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<td>D016</td>
<td>Career patterns of Women in Rhinology</td>
<td>Kristen Echanique, MD</td>
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<td>D017</td>
<td>Centralization of care and patient travel for transphenoidal surgery of the pituitary</td>
<td>Aisosa Omorogbe, BS</td>
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<td>D018</td>
<td>CF infection prevention protocol</td>
<td>Meghan Norris, MS</td>
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<td>D019</td>
<td>CFD simulation of surface trap conditions with EDS delivery in post-surgical Draf III CRS geometry</td>
<td>Per Djupesland</td>
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<td>D020</td>
<td>Characteristics and observation about post-operative oVation of REAH</td>
<td>Erin Mori, MD, PhD</td>
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<td>D021</td>
<td>CHEER radiology</td>
<td>Aria Jafari, MD</td>
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<td>D022</td>
<td>Clinical characteristics and cost of surgically managed nasal polyps patients</td>
<td>Krista Schladweiler, PhD</td>
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<td>D023</td>
<td>Clinical factors distinguishing orbital invasive fungal sinusitis from orbital cellullitis</td>
<td>Jeffrey Bernstein</td>
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<td>D024</td>
<td>CLOBETA topical for recurrent chronic rhinosinusitis in post FESS patients</td>
<td>Patrick Slater, MD</td>
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<td>D025</td>
<td>Comparing CRS severity between Hispanics and non-Hispanics undergoing primary ESS</td>
<td>Corinna Levine, MD, MPH, FARS</td>
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<td>D026</td>
<td>Complications after endoscopic sinus surgery in sinonasal cancer patients with mental illness</td>
<td>Gregory Barinsky, PharmD</td>
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<td>D027</td>
<td>Computational analysis of nose-to-brain drug delivery after nasal midvault reconstruction</td>
<td>Hannah Martin, BS</td>
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<td>D028</td>
<td>Contemporary diagnosis of primary ciliary dyskinesia</td>
<td>Erin Lopez, MD</td>
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<td>D029</td>
<td>Control of carotid bleed with nasoseptal flap</td>
<td>Matthew Kim, MD</td>
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<td>D030</td>
<td>Control of carotid bleed with nasoseptal flap</td>
<td>Matthew Kim, MD</td>
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<td>D031</td>
<td>CSF leaks due to electric scooter injury</td>
<td>Jeehong Kim, MD</td>
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<td>D032</td>
<td>Demographic predictors of complications in endoscopic sinus surgery in national database</td>
<td>Sonam Dodhia, MD</td>
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<td>D033</td>
<td>Determining population-wide interest in different sinus procedures using Google trends</td>
<td>David S. Lehmann</td>
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<td>D034</td>
<td>Disparities in access to care and outcomes following rhinoplasty</td>
<td>Aisosa Omorogbe, BS</td>
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<td>D035</td>
<td>Distinct histopathologic features of sinulitis complicated by orbital or intracranial extension</td>
<td>Hannah Brown</td>
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<td>D036</td>
<td>Effect of nasal fluticasone exhalation delivery system on eustachian tube dysfunction</td>
<td>Arthur Wu, MD, FARS</td>
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<td>D037</td>
<td>Effects of smoking on post-operative outcomes in skull base procedures comparing ENT assisted and Unassisted Surgeries</td>
<td>Aakash Shah, BS</td>
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<td>D038</td>
<td>Empty nose syndrome</td>
<td>Macaulay Ojeaga</td>
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<td>D039</td>
<td>Endoscopic endonasal resection of a carcinoma ex-pleomorphic adenoma of the skull base</td>
<td>Tara Wu, MD</td>
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<td>D040</td>
<td>Endoscopic muscle graft to right carotid artery blowout</td>
<td>Shrvani Pathak, BA</td>
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<td>D041</td>
<td>Endoscopic olfactory anatomy</td>
<td>Roberto Soriano, MD</td>
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<td>D042</td>
<td>Endoscopic removal of maxillary sinus odontogenic keratocyst</td>
<td>Stewart Bernard, MD</td>
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POSTERS - PROGRAM AT-A-GLANCE

D043 Environmental exposure and histopathologic findings in WTC relief workers with CRS undergoing FESS
Rohini Bahethi, BS

D044 Epithelial remodeling alters PAR-2 polarization
Ryan Carey, MD

D045 Eustachian tube balloon dilation
Jose Alonso, MD

D046 Exclusively endoscopic surgical resection of esthesioneuroblastoma: A systematic review of outcomes
Daniel Spielman, MD

D047 Eustachian tube balloon dilation
Jose Alonso, MD

D048 Exclusively endoscopic surgical resection of esthesioneuroblastoma: A systematic review of outcomes
Daniel Spielman, MD

D049 Gender representation at national rhinology meetings
Kathryn Kreicher, MD

D050 Hydraulic dissection technique during endoscopic sinus surgery using a novel balloon sinus dilator
Isaac Schmale, MD

D051 Hypoalbuminemia in anterior skull base procedures
Chris Choi, BS

D052 IL-13 and CCL26 in chronic rhinosinusitis with nasal polyposis
Tolani Olonisakin, MD-PhD Candidate

D053 Immune related adverse event presenting as acute sinusitis
Tyler Swiss, Resident in Training

D054 Impact of prophylactic antibiotics on healthcare utilization following endoscopic sinus surgery
Ashoke Khanwalkar, MD

D055 Impact of routine ESBS on subjective olfaction and gustation outcomes
Nanki Hura, BS

D056 Impact of subspecialty evaluation on socioeconomic and demographic factors in patients with CRS
Mark Arnold, MD

D057 Impact on nasal septal anatomy and physiology following Le Fort I osteotomy for orthognathic surgery
Jeffrey Schaefer, MD

D058 Increased prevalence of sinusitis in Gulf War veterans
Kenric Tam, MD, MM

D059 Inter-pathologist agreement on CRS structured histopathology
Ashwin Ganti, BA

D060 Intranasal corticosteroids- Where are they headed?
Sara Treat, MD Candidate

D061 Intranasal drug delivery to the ostiomeatal complex and maxillary sinus in chronic rhinosinusitis
Hannah Martin, BS

D062 Invasive mucorales infection of the nasopharynx
Abel David, MD

D063 Ki-67 as a marker for recurrence in pituitary adenoma
Kent Tadokoro, MD

D064 Long term efficacy of inferior turbinates outfracture in CRS patients
Gina Trinh

D065 Lymph node metastasis in maxillary sinus squamous cell carcinoma
Tapan Patel, MD

D066 Meningitis and cerebrospinal leak
Lauren Luk, MD, FARS

D067 Metastasis to the sinuses
Nardin Derias, MS3

D068 Middle turbinate concha bullosa osteoma
Raksha Araslanova, MD

D069 Modified endoscopic Denker’s approach for management of anterior maxillary sinus tumors
Taylor Carle, MD

D070 Nasal nitric oxide emission driven by ethmoid sinuses and diffusion: A computational study
Kai Zhao, PhD

D071 Nasoseptal flap for reconstruction of hard and soft palate defect
Anas Eid

D072 Nasoseptal rescue flap approach for endoscopic surgery of the clivus and upper cervical spine
Chetan Safi

D073 Nitric oxide nanotherapeutics to combat candida auris
Kevin Li

D074 Non-opioid analgesics after sinonasal surgery
Sarina Mueller, MD

D075 Non-opioid vs. opioid analgesics for pain control after endoscopic sinus surgery for CRS
Jenna Bergman, Medical Student

D076 Novel Beta-2 transferrin sensor
Nathanael Nickel, MD

D077 Opioids after endoscopic skull base surgery
Alexander Kovacs

D078 Osteogenic effect of lipofilling in CSF treatment
Stefano Millarelli

D079 Ostial patency measurement analysis after endoscopic sphenoidotomies and frontal sinusotomies
Thomas Higgins, MD, MSPH, FARS

D080 Outcomes in ENT assisted and unassisted anterior skull base surgeries for high risk patients
Chris Choi, BS

D081 Outcomes in single versus multi-center treatment of AERD
Nithin Adappa, MD, FARS

D082 Outcomes of anti-hypertensive therapy in skull base procedures
Aakash Shah, BS

D083 Patient satisfaction after septoplasty
Aakash Shah, BS

D084 Patient satisfaction after surgical or nonsurgical rhinoplasty
Aakash Shah, BS

D085 Pediatric pituitary surgery: Claims-based analysis of perioperative complications
Vijay Patel, MD

D086 Perceptual distortion of the face in sinonasal disease
Thomas Higgins, MD, MSPH, FARS

D087 Perioperative management of spontaneous CSF leak repair
Justin McCormick, MD
| D088 | Phenotypic and endotypic heterogeneity in aspirin-exacerbated respiratory disease | William Scott, MD |
| D089 | Post-op outcomes in ENT assisted and unassisted surgeries for patients with steroid use | Aakash Shah, BS |
| D090 | Post-operative type 2 inflammatory mediators decrease after endoscopic sinus surgery | Samuel D. Racette, MD |
| D091 | Potential costs of dental treatment and endoscopic sinus surgery for odontogenic sinusitis | Haley Sibley |
| D092 | Practice patterns in the medical and surgical management of traumatic optic neuropathy | Megan Morisada, MD |
| D093 | Prediction of extended length-of-stay following pituitary surgery | Shanik Fernando, MD |
| D094 | Prediction of sleep apnea by using a smartphone | Jeong-Whun Kim, Professor |
| D095 | Pre-crural approach in managing sinonasal diseases | Yu-Hsuan Lin, MD |
| D096 | Prospective study of post-operative opioid usage following sinus surgery | Edward Doyle, MD |
| D097 | Quality of life outcomes 10 years after endoscopic sinus surgery | Kent Tadokoro, MD |
| D098 | Quantification of nasal cavity and sinuses in patients with and without chronic rhinosinusitis | Anisha Singh, BSE |
| D099 | Race, insurance, and facility affect treatment modality in SNSCC | Jesse Qualliotine, MD |
| D100 | Radiologic algorithm for identification of maxillary and sphenoid sinus natural ostia | Julia Comer, MD |
| D101 | Readability and understandability for intranasal steroids | Saangyoung Lee, BS |
| D102 | Real world attributes of patients on anti-asthma biologic therapy that have concurrent CRS | Devyani Lal, MD, FARS |
| D103 | Recurrence of nasal polyps after endoscopic sinus surgery evaluation of rate and associated risk factors | Donia Alredha, PhD |
| D104 | Recurrent nasal hamartoma in DICER1 | Lara Reichert, MD, MPH |
| D105 | Regional peak mucosal cooling predicts outcomes of radiofrequency treatment of nasal obstruction | Zhenxing Wu, PhD |
| D106 | Responsiveness and convergent validity of the CRS-PRO in CRS patients undergoing sinus surgery | Katherine Lin, BS |
| D107 | Revision frontal sinus surgery | Mohamed Elsayed, MSc |
| D108 | Safety and efficacy of endoscopic sinus surgery in patients previously treated with radiation | Jessica Smith |
| D109 | Self-reported facial pain and facial pressure are distinguishable in sinonasal patients | Thomas Higgins, MD, MSPH, FARS |
| D110 | Sex-based differences in CRS | Saangyoung Lee, BS |
| D111 | Shared decision-making in elective rhinologic surgery - A scoping review | Omar Karadaghy, MD, MSCI |
| D112 | Sinonasal angiomatous polyp: Case report and review of imaging features | Elezer Kinberg, MD |
| D113 | Sinonasal manifestations of mucous membrane pemphigoid in a pediatric patient: A case report | Grace Banik, MD |
| D114 | Sinonasal small cell neuroendocrine carcinoma – Case series of a rare malignancy | Nikita Chapurin, MD, MHS |
| D115 | Sinonasal symptoms in hospitalized patients | Kirsten Meenan, MD |
| D116 | Sinus irrigation penetration after a Draf IIA vs modified Draf IIA in a cadaveric model | Khaled Issa, MD |
| D117 | Skull base COREAH: Case report and literature review | Anna Flaherty, MD |
| D118 | Sleep outcomes lack association with mucosal eosinophilia or neutrophilia in patients with CRS | Nyssa F. Farrell, MD |
| D119 | Sociodemographic factors impact adjuvant treatment and survival in sinonasal mucosal melanoma | Sarek Shen, MS |
| D120 | Squamous cell carcinoma and pituitary adenoma, a collision tumor of the cavernous sinus | Lindsay Olinde, MD |
| D121 | Strategy of care delivery in patients with nasal valve dysfunction | Andrei Makaryn-Kibak, PhD |
| D122 | Structured histopathologic comparisons of benign and malignant sinonasal tumors | Auddie Swei, MD |
| D123 | Subacute IFS, a distinct entity from acute fulminant and chronic IFS | Thomas Edwards, MD |
| D124 | Surgical extent increases risk of post-operative epistaxis in outpatient sinus surgery in Florida | Jeffrey Bernstein |
| D125 | Surgical management of world trade center relief workers with chronic rhinosinusitis | Lauren Williams |
| D126 | Surgical versus endovascular ligation for epistaxis in the anticoagulated patient population | Sarek Shen, MS |
| D127 | Survival outcomes by treatment modality in HPV+ sinonasal squamous cell carcinoma | Vivian Wung |
| D128 | Survival outcomes in patients with acute invasive sinusitis with intracranial extension | Nancy Wang, MD |
| D129 | Survival outcomes in sinonasal neuroendocrine carcinoma: An NCDB analysis | Khaled Issa, MD |
POSTERS - PROGRAM AT-A-GLANCE

D130  
Symptom scores and CT findings in CF sinusitis  
Lindsey Ryan, MD

D131  
The case of a solitary fibrous tumor of the nasal cavity with expansion into the intracranial fossa  
Randall Bloch, BS

D132  
The diagnostic utility of sinonasal pathology in systemic vasculitides  
Ashton Lehmann, MD

D133  
The effect of climatic, socioeconomic and geographic factors on the prevalence of allergic fungal rhinosinusitis: A worldwide ecological study  
Bader Alim, MD

D134  
The effects of sinus surgery and aspirin desensitization on sleep in AERD  
Tran Locke, MD

D135  
The effects of site-specific metastases on nasopharyngeal squamous cell carcinoma survival  
Christopher Tseng, BS

D136  
The impact of head position on sinonasal drug delivery via actuated nasal sprays  
Joseph Conduff, MD

D137  
The impact of inspiration on sinonasal drug delivery via actuated nasal sprays  
Joseph Conduff, MD

D138  
The impact of nasal steroid irrigations on the management of chronic rhinosinusitis  
Auddie Sweis, MD

D139  
The impact of sinus surgery and aspirin desensitization on psychological burden in AERD  
Theodore Lin

D140  
The influence of population density on survival in sinonasal cancer  
Rushi Patel, BA

D141  
The role of anesthesia on intraoperative outcomes during endoscopic sinus surgery: A meta-analysis  
David Moffatt

D142  
The role of CT and endoscopy in the evaluation of patients referred for intranasal cryoablation  
Isaac Schmale, MD

D143  
Topical anesthesia for scope exams  
Matthew Naunheim, MD, MBA

D144  
Transorbital sinonasal trauma due to Impalement with a felt tip marker  
Habib Zalzal, MD

D145  
Treatment and clinical outcomes in acute orbital invasive fungal sinusitis  
Bridget MacDonald, BA

D146  
Understanding nasopharyngeal lymphoepithelial carcinoma: A national analysis  
Jeff Gao, BS

D147  
Unfolded protein response in sinonasal inverted papilloma  
Paul Lee, MS

D148  
Utility of an ultrasonic aspirator in performing a frontal sinus osteoplastic flap  
Dominic Catalano, MD

D149  
Utility of preoperative phone calls for endoscopic sinus surgery  
Mallory McKeon, BA

D150  
Value of inferior meatal flap as an adjuvant approach in managing maxillary sinus lesions  
Ahmed Mahmoud El Batawi, MD

D151  
Vitamin D level is inversely associated with Lund-Mackay score in AERD  
Kevin Ig-Izevbekhai

D152  
Woakes’ Syndrome: A case series  
Alexander Dickie, MD

D153  
YouTube as a surgical instructional tool for endoscopic transsphenoidal pituitary tumor removal  
Victoria Lee, MD

D154  
Vitamin D level is inversely associated with Lund-Mackay score in AERD  
Kevin Ig-Izevbekhai