

WHAT YOU O TO KNOW

THE UNIVERSITY OF VIRGINIA
DEPARTMENT OF OTOLARYNGOLOGY-
HEAD AND NECK SURGERY



DIVISION UPDATES

See what's new in each subspecialty in this annual review

RESEARCH

Innovating research with deep learning models and augmented reality

ALUMNI FEATURE

Catch up with "Double Hoo", Dr. Dan Becker, Class of '95

FALL 2021
VOL. 2, NO. 2



Department of Otolaryngology-Head and Neck Surgery

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What You Oto Know is a biannual newsletter published by The University of Virginia Department of Otolaryngology-Head and Neck Surgery.

Please send questions, comments and requests for hard copies to Chelsey Jankowski, cen7b@virginia.edu

What You Oto Know Fall 2021 VOL. 2, NO. 2

Editor

Andrew Strumpf

Creative Director

Chelsey Jankowski



WHAT YOU OTO SPRING 2021 VOL. 2, NO. 1

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DIVISION PEARLS
Clinical pearls explored by faculty & residents

RESIDENT LIFE
An interview with our chiefs on their residency experience and next steps





NEWS & FEATURES

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LOCATIONS

- UVA Health
- ENT Clinic at Fontaine
- Emily Couric Clinical Cancer Center
- Pediatric Oto Clinic at the Battle Building
- Charlottesville ENT Associates
(Not pictured)

Message From The Chair

STEPHEN S. PARK, MD



What a year! I have often believed that moments of great stress and turmoil are necessary to reveal the depth of one's character. The past year has been no exception, and I could not be more proud of how the department has emerged. All three missions of our department have been upheld to the highest standards despite the pandemic. Once again, we said goodbye to our terrific chief residents and fellows as we welcomed in the new fellows and interns.

The department has grown and this newsletter highlights some of the important developments of the past year. Our long-standing practice at the Sentara/Martha Jefferson Hospital is evolving as we bring on an additional faculty member and renovate the office space. This allows us to best serve the Charlottesville community in a friendly, confidential, and comprehensive manner. Strong philanthropy from alumni, grateful patients, and friends of the department has allowed us to provide educational experiences second to none. We have had several simulation and fresh cadaver lab sessions that allow our trainees to roll up their sleeves and practice. Priceless!

The department has secured its first NIH grant in many years. Our aim is to convert this exploratory R21 into an RO1 in short time. Additional external funding from numerous sources exceeds \$500,000 this past year and affords our faculty the freedom and support to explore new frontiers and expand the boundaries of Otolaryngology. A special new area of focus will emphasize innovation and the process of taking products to market. These projects involve our residents, students, and are conducted in close collaboration with other disciplines across University grounds. I believe this is the epitome of Jefferson's vision of education and advancement.

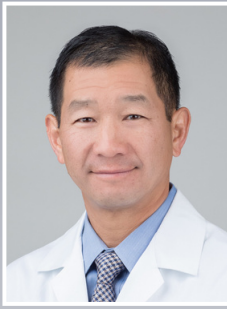
We all remain busy and focused on our missions. This next year looks incredibly bright as we continue to strive for excellence. A special highlight to the Fitz-Hugh next year which will be a Reunion Celebration, once again led by Dr. John Mason. More to come.

Stephen S. Park

STEPHEN S. PARK, MD

FACULTY

Facial Plastic & Reconstructive Surgery



Stephen Park, MD
Department Chair,
Division Director,
Professor

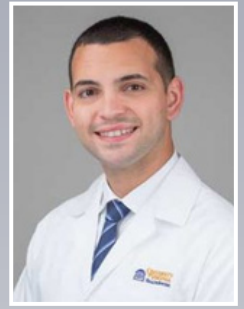


Samuel Oyer, MD
Associate Professor

Rhinology & Endoscopic Sinus Surgery



Spencer Payne, MD
Division Director,
Associate Professor

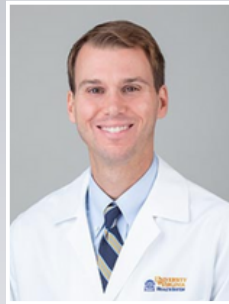


Jose Mattos, MD, MPH
Program Director,
Assistant Professor

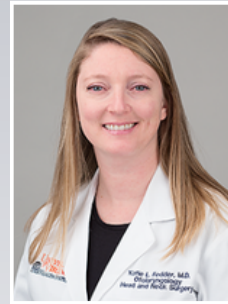
Head & Neck Oncologic & Microvascular Surgery



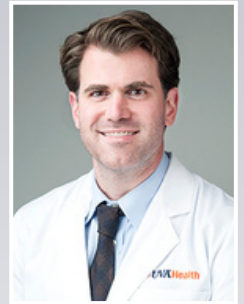
Mark Jameson, MD, PhD
Division Director,
Associate Professor



David Shonka, MD
Associate Professor



Katherine Fedder, MD
Assistant Professor

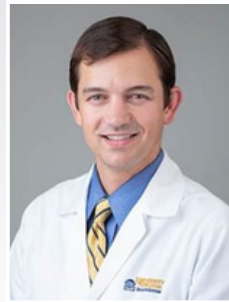


Jonathan Garneau, MD
Assistant Professor

Laryngology & Voice Care

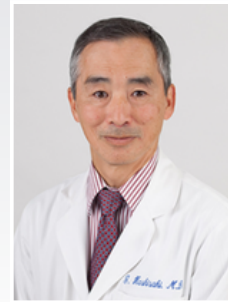


James Daniero, MD, MS
Division Director,
Associate Professor

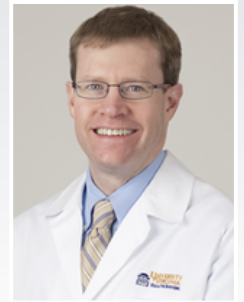


Patrick McGarey Jr., MD
Assistant Professor

Otology & Neurotology

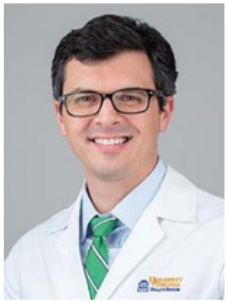


George Hashisaki, MD
Division Director,
Associate Professor



Bradley Kesser, MD
Vice-Chair,
Associate Program Director,
Professor

Pediatric Otolaryngology

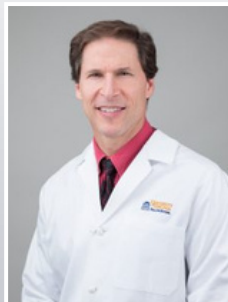


William Brand, MD
Division Director,
Assistant Professor



Ariana Greenwell, MD
Assistant Professor

General Otolaryngology

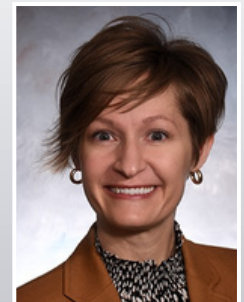


Daniel Landes, MD
Associate Professor



John Mason, MD
Associate Professor

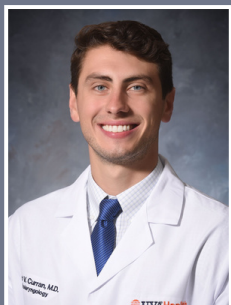
Audiology/Vestibular & Balance Center



Lori Grove, PhD
Division Director,
Assistant Professor

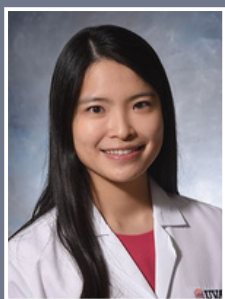
RESIDENTS

CLASS OF 2026



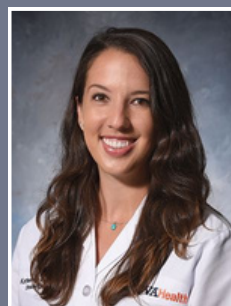
Kent Curran, MD

From Eden Prairie, MN, Dr. Curran attended Union College for his undergraduate studies and earned an M.B.A. in Healthcare Admin. at Clarkson University in NY. He recently graduated from Albany Medical College. He enjoys playing sports, especially golf, hiking, fishing, music and movies.



Betsy Szeto, MD

Growing up in Toronto, Dr. Szeto completed her undergraduate at McGill University in Montreal She attended Columbia University for graduate and medical education receiving an M.P.H. in Epidemiology. Her interests include traveling, trying new restaurants, hiking, yoga, and indoor plants.



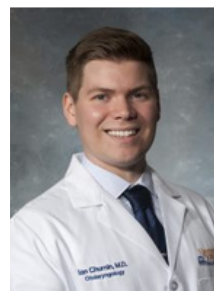
Katherine Webb, MD

Originally from San Francisco, CA, Dr. Webb earned her undergraduate degree from UC- Davis and medical degree from Albany Medical College. In her free time she enjoys playing soccer, traveling, hiking and trail running, reading, listening to audiobooks / podcasts, and spending time with friends and family.

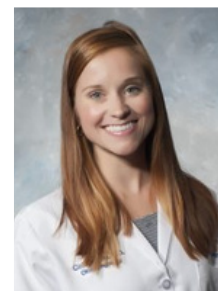
Chief Residents- Class of 2022



Delaney Carpenter, MD



Ian Churnin, MD

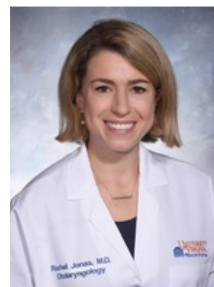


Caitlin Iorio, MD

PGY4- Class of 2023



Annesha Basu, MD



Rachel Jonas, MD



Neil Saez, MD

PGY3- Class of 2024



Simone Barker, MD



Hyunseo "David" Jung, MD



Jeffrey Mella, MD

PGY2- Class of 2025



Nelson Gruszczynski, MD



Claudia Gutierrez, MD



Christopher Harryman, MD

GRADUATING CLASS OF 2021

Residents



Harrison Bartels, MD

Harry and his wife, Meghan, are headed to warmer climates where Harry will complete fellowship training in facial plastic surgery with Dr. Edward Farris (UVA School of Medicine '82) in Tampa Florida. Harry brought an infectious enthusiasm and can-do attitude to our residency program, a model for the junior residents. An avid runner, Harry will find many (hot) trails and courses in Tampa. We wish Harry and Meghan well as they embark on the next chapter in their lives!



Garrett Casale, MD

Garrett and his wife, Brittany, are headed to Michigan where Garrett will be pursuing a fellowship in Neurotology. Garrett is one of the first UVA residents to pursue fellowship training in neurotology in many years, and we know he will be a huge hit at the Michigan Ear Institute. After nine years at UVA - four as a medical student and five as a resident in our department - Garrett developed outstanding leadership skills and earned the respect of his co-residents and faculty. He will be greatly missed! Garrett and Brittany welcomed their first child this summer!

Otology / Neurotology Fellow



Geoffrey Casazza, MD

Geoff, Jillian, Maddie (4), and Myles (16 months) came to us from the University of Utah (well, just Geoff, Jillian, and Maddie came from Utah!) residency under the tutelage of Clough Shelton, MD, an outstanding neurotologist. Geoff capped off a two year fellowship with us in Neurotology, and while the pandemic temporarily curtailed his fellowship, Geoff achieved great technical proficiency in lateral skull base surgery. Geoff also published 4 manuscripts in peer-reviewed publications and presented a paper at the American Otological Society Spring meeting at COSM. Geoff starts in August as an Assistant Professor at the University of Nebraska in Omaha; we'll check in with him later in the year to get tips from the Oracle of Omaha (Warren Buffett)!

DIVISION UPDATES

FACIAL PLASTIC & RECONSTRUCTIVE SURGERY

STEPHEN PARK, MD

This past year Dr. Sam Oyer very quickly got to full speed, launching a comprehensive facial reanimation practice with a regional referral base. He has brought a state-of-the-art standard to UVA and introduced a cutting edge technique for normalizing the lives of patients with complete and incomplete facial paralysis. He also brings the highest level of expertise in Mohs reconstruction, trauma management, and aesthetic surgery, especially office based care. There have been several workshops for the trainees in such areas as Botox and Fillers. The division is involved in several ongoing research projects including the study of outcomes from Mohs reconstruction as well as from rhinoplasty and facial paralysis treatment. The volume of Mohs repairs is one of the largest in the country and it has led to a comprehensive database that will be put together as a teaching tool and open to the public. Resident interest in this subspecialty remains high. Our recently graduated chief is doing a Facial Plastic Surgery fellowship in Tampa. The current chief has recently matched in a fellowship in Salt Lake City, her first choice.



A Friendly Aussie Update

Dr. Marty Hanson is back in Australia after completing roughly 18 months with us here at UVA. Doing nothing simple or easy, he and his family rented a large RV and drove from Charlottesville to LA, of course through all the landmarks of America. After the appropriate quarantine, they are back down under and his practice has taken off rapidly where he is doing major Head & Neck Surgery and Facial Plastic Surgery. We miss our mate...



Shruti Jayachandra, MD

Facial Plastic & Reconstructive Surgery Fellow

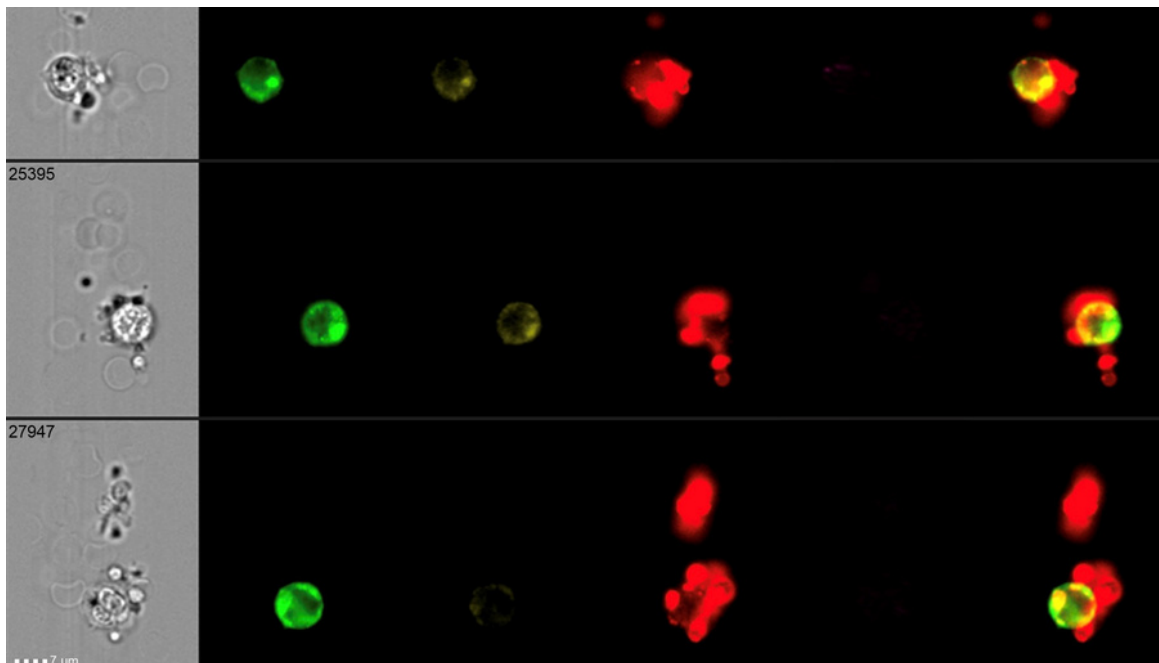
Joining us from Sydney, Australia is our Facial Plastic and Reconstructive Surgery Fellow, Dr. Shruti Jayachandra. Dr. Jayachandra completed her medical education at The Australian National University and is a Fellow of the Royal Australasian College of Surgeons. After some delay due to the pandemic, Dr. Jayachandra arrived in January to complete her 1 year fellowship. Her clinical interests include facial reanimation and rhinoplasty. In her free time Dr. Jayachandra enjoys hiking, traveling and landscape painting.

DIVISION UPDATES

RHINOLOGY & ENDOSCOPIC SINUS SURGERY SPENCER PAYNE, MD

The Division of Rhinology & Sinus Surgery has been a hotbed of research and clinical activity. In collaboration with engineering colleagues Dr. José Mattos has extended research efforts into the investigation of mucosal transplantation for chronic sinusitis (CRS) and mapping olfactory neuroepithelium. The division has also become involved in two national multi-institution research protocols that look to improve delivery and documentation of quality care to patients with CRS. Dr. Mattos and Dr. Jameson from the division of Head & Neck Oncologic Surgery have begun collaborating in the multi-disciplinary Skull Base Neoplasm clinic held in the Emily Couric Cancer Center. The division seeks to elevate their comprehensive care in the management of complex respiratory

patients with Dr. Mattos and Payne both involved in collaborative care in the Comprehensive Allergy & Sinus Clinic (CASC). This multi-disciplinary clinic, also staffed by colleagues from the Division of Allergy & Clinical Immunology, seeks to provide the latest therapies for those patients with moderate to severe sinusitis and asthma such as those with Aspirin Exacerbated Respiratory Disease, non-CF bronchiectasis, and/or immunodeficiencies. Additionally, Dr. Payne is currently in the pursuit of Functional Medicine Certification and has already begun implementing more holistic care of his patients through dietary/nutritional modifications to better address the root causes of their chronic inflammatory diseases.



Here's a sneak peek of some upcoming research from our Rhinology division.

DIVISION UPDATES

HEAD & NECK ONCOLOGIC & MICROVASCULAR SURGERY

MARK JAMESON, MD

The Head & Neck Team has grown over the last year. Jon Garneau, MD joined the group as our fourth surgeon in August 2020 and Rachel Morgan, PA started with us in April 2021. They have both quickly become integral team members who make a huge contribution to our success. In less than one year as a faculty member, Dr. Garneau was awarded the James F. Reibel Teaching Award by the residents for 2021, an incredible tribute to his dedication to high quality clinical care and education.

In August 2020 we transitioned our outpatient practice to the Emily Couric Clinical Cancer Center. In this location our patients have access to Radiation Oncology, Medical Oncology, Radiology, and a variety of support services all in one building. The nursing and support team at EC4 receives high praise from patients on a weekly basis for the high quality and compassionate care they provide.

In the past year, Dr. Shonka instituted a twice-monthly Thyroid Tumor Board, which has a large attendance including surgeons, endocrinologists, pathologists and radiologists. Our sialoendoscopy program, started by Dr. Fedder, has continued to grow and provide non-surgical options for various salivary complaints that would have previously required gland removal. Holly Hess, SLP has initiated a program with Dr. McGarey (Laryngology) to perform awake in-office tracheoesophageal puncture with voice prosthesis placement for our laryngectomy patients, sparing them a trip to the operating room. Despite the challenges of COVID-19, we have continued to enroll patients in clinical trials, including a variety of surgical, medical,



quality of life, survivorship, and tissue banking protocols, primarily because of the outstanding recruitment efforts of BJ Ferrebee Ghamandi, CRC.

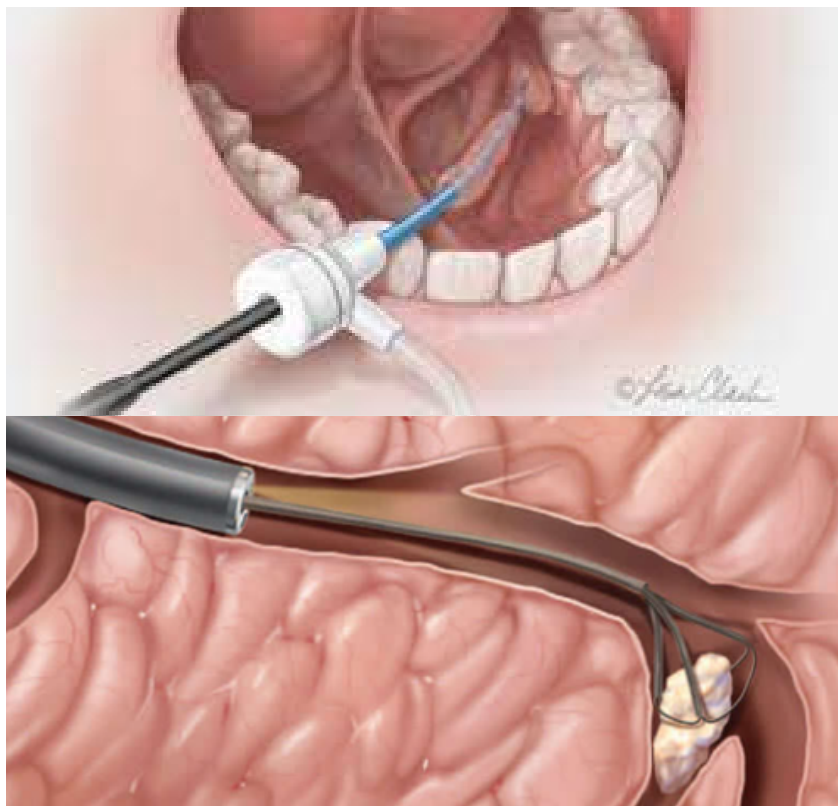
Our free flap program turned 14 in July and celebrated its 550th free tissue transfer with a 98% flap survival rate. The UVA Robotics Users Group recently initiated the da Vinci AMP program with Intuitive Surgical, which will bring the new state-of-the-art “single port” SP robot to UVA later this summer and broaden the scope of transoral surgical procedures we can perform. In the coming months, our surgeons will undergo training on the SP robot and the “old” Si robot will be retired.

I’m truly honored to lead such an extraordinary team. I’m indebted to all the individuals who make it possible to deliver excellent care to head and neck cancer patients. I would be remiss if I didn’t acknowledge the residents, who work tirelessly to ensure that every patient receives the best – we simply couldn’t do it without them, and I am deeply grateful.

DIVISION UPDATES

HEAD & NECK ONCOLOGIC & MICROVASCULAR SURGERY Sialoendoscopy Now Offered at UVA

Dr. Katherine Fedder has developed a focused interest in the evaluation and management of salivary gland disorders. She was recently trained to perform sialoendoscopy, a minimally invasive approach to salivary gland pathology. For certain patients, open surgery and often gland excision have been the only options for cases in which medical management fails. In many cases, this new endoscopic technique allows for gland preservation and provides an additional treatment option for patients who wish to avoid more aggressive surgery. Dr. Fedder is one of only a handful of providers in Virginia to offer this outpatient procedure, and the only one in the Charlottesville area and Shenandoah Valley.



Images courtesy of www.sakraworldhospital.com



The Head & Neck Team Welcomes A New PA

Rachel K. Morgan, PA-C

In April 2021, the Head and Neck team welcomed Rachel Morgan, PA-C. Rachel graduated with a BS in Nutritional Sciences from Oklahoma State University and obtained her MS in Physician Assistant Studies at Missouri State University. She began her career in 2017 in Cheyenne, WY with a private urology group before relocating to Charlottesville with her husband earlier this year. Rachel says, “What drew me to this team were the kind, passionate, and experienced surgeons in addition to the multidisciplinary teamwork, the welcoming environment, and the outstanding resources which provide exceptional patient care. In my short time at UVA, I have enjoyed learning this subspecialty and getting to know the faculty and staff. I have especially loved working with the H&N patient population. These incredibly resilient people inspire me daily with how they overcome their challenging diagnoses and treatment plans with such positive attitudes. It is a privilege to play a role in their care.”

DIVISION UPDATES

LARYNGOLOGY & VOICE CARE

JAMES DANIERO, MD

Since the 2014 re-establishment of the Laryngology division, there has been tremendous growth which has resulted in a complete transformation of the already high-quality care offered for patients with voice, swallowing, and airway disorders. Beginning with a single physician and speech-language pathologist (SLP) (both recruited from the renowned Vanderbilt Voice Center), the division has maintained steady growth over the past seven years. As a result of significant patient demand and rapid dissemination of the knowledge and expertise available at UVA, the recruitment of additional incredibly talented staff became possible. The expanded division now includes two fellowship-trained physicians, one laryngology-trained physician assistant, and three laryngology-specialized SLPs, all providing cutting-edge interdisciplinary care. This care model encourages a patient-centered approach and allows for real-time discussion of pathology from a multitude of perspectives. The voice assessment team completes laryngeal videostroboscopy and coordinates an SLP evaluation during the initial patient visit resulting in a comprehensive voice care plan during a single visit. Furthermore, the recent advances in telehealth have facilitated the creation of a robust “tele-voice” therapy practice to allow for treatment across the Commonwealth, a significant patient convenience and cost-savings. Finally, the comprehensive swallowing assessment team allows for patients to complete a flexible endoscopic evaluation of swallowing (FEES) on the initial visit and obtain a laryngologist’s diagnosis with SLP-guided treatment plan, avoiding multiple visits.

Similarly, our office-based procedures, initially limited to vocal fold botulinum toxin injections, have now grown to also include KTP laser ablation, vocal fold injection augmentation, bronchoscopy and steroid injection, transnasal esophagoscopy with balloon dilation, tracheoesophageal prosthesis placement, superior laryngeal nerve blocks and several others. Nearly thirty advanced office-based procedures are performed each week demonstrating the popularity of these options among patients and referring providers.

On the research front, there have been parallel advancements in clinical and basic science investigations. Dr. McGarey has a focus on systematic reviews of common decision-points in laryngology care, such as reflux and laryngeal dysplasia. Ongoing clinical research projects include cost-comparisons of in-office treatments compared to their counterparts in the operating room. Meanwhile Dr. Daniero has developed a robust basic science program based upon animal models of voice and airway disease. His success has led to the development of two patents, several new animal models, and NIH funding. In addition, Dr. Daniero’s close collaborator in the Department of Plastic Surgery, Dr. Patrick Cottler, has also now joined the department as adjunct faculty. His expertise in wound healing and preclinical translational research provides the department with access to resources that were previously unobtainable for a medium-sized department. These pooled resources have allowed for incredible efficiency in basic science research and provide an additional opportunity for resident and medical student education.

DIVISION UPDATES

OTOLOGY & NEUROTOLOGY

GEORGE HASHISAKI, MD

After 20 years of service, A. Tucker Gleason, Ph.D., retired as Director of Audiology. Dr. Gleason has left large shoes to fill, and we appreciate her years of dedicated service. Lori Grove, Ph.D., is the new Director of Audiology, and we are looking forward to a continued legacy of outstanding clinical Audiology. We anticipate that Dr. Grove will fill the “shoes” nicely. With the addition of our new Pediatric Otolaryngologist, Ariana Greenwell, M.D., Audiology will be trying to chase after even more kids in the sound booth.

The division is participating in a new multi-institutional cochlear implant study, sponsored by Cochlear America, assessing the impact of a steroid-eluting cochlear implant electrode array on intra-cochlear inflammation in an adult population. Hopefully, this study will provide more insight into preserving residual hearing in ears receiving a cochlear implant. Keep sending your potential cochlear implant candidates.



Research continues in collaboration with Lincoln Gray, Ph.D., based at James Madison University, on psychoacoustic measures in patients with unilateral or bilateral conductive hearing loss due to congenital aural atresia. Basic science collaboration with Jung-Bum Shin, Ph.D., Department of Neuroscience has been productive for our Neurotology fellows and some of our residents. Dr. Shin continues to investigate stereocilia function of the inner ear hair cells. Residents working in Dr. Shin's lab have been challenged, working with the gene-editing tool, CRISPR/Cas-9.

Otology / Neurotology Fellow

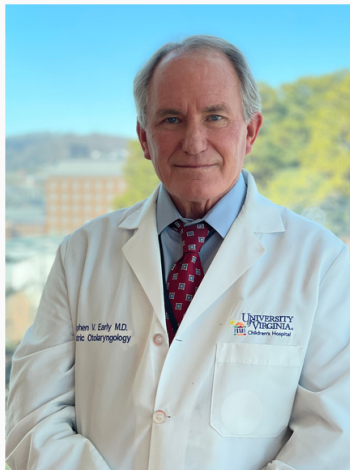


Daniel Morrison, MD

On July 1st we welcomed Dr. Daniel Morrison as our Neurotology Fellow. Originally from Columbia, SC, Dr. Morrison received his medical education at MUSC and went on to complete residency at the University of Alabama, Birmingham. His interests include resident education, advanced imaging techniques in vestibular schwannoma, and quality of life and outcomes research in hearing restoration. Dr. Morrison enjoys cooking, baking, playing banjo, cycling & rowing. He and his wife, Rachel, spend much of their time with their 2 sons, Rhodes and Louis, and are looking forward to welcoming twin boys this fall.

DIVISION UPDATES

PEDIATRIC OTOLARYNGOLOGY



It's Smooth Sailing from here!

Occasions like this one make me feel even older than just celebrating another birthday! Steve Early completed his residency with us in 1989 and proceeded to Orlando to establish himself as the premier pediatric otolaryngologist in the city.

A unique opportunity arose when his eldest son, Brandon, visited UVA and stayed with our younger son, Ross, decided to apply to UVA and was accepted and attended. Not only did he and our son become lifelong friends, but I was able to recruit Steve back to UVA to grow and improve the practice of pediatric otolaryngology. Steve quickly exhibited his commitment to high quality, thoughtful patient care as well as to medical student/resident education that became evident to the medical school at large as Steve is not only the only faculty member from our department to receive the coveted Robley Dunglison award but also the only one to be asked to address a graduating medical student class as part of the ceremony.

Steve elevated our care of children to an entirely new level of skill and expertise, and in doing so, he created a standard for patient care that should be emulated by all. We are so proud of all that you have done for pediatric otolaryngology at UVA as well as raising the standard for clinical education that all faculty should attempt to emulate. I wish for you a long, rewarding and a healthy retirement and I look forward to welcoming you as a fellow emeritus faculty member.

Paul A. Levine

FORMER DEPARTMENT CHAIR
PROFESSOR EMERITUS



Meet Dr. Greenwell, Our newest pediatric otolaryngologist

Dr. Ariana Greenwell will be joining the Division of Pediatric Otolaryngology as Assistant Professor starting in September. Dr. Greenwell was raised outside of Boston, MA where she received her undergraduate degree at Boston College. From there, she traveled to Baltimore, MD where she completed her medical training at the University of Maryland. Following residency, she completed a fellowship in Pediatric Otolaryngology at the Boston Children's Hospital. Dr. Greenwell specializes in complex pediatric care including management of head and neck masses, airway and swallowing disorders, sleep disordered breathing and obstructive sleep apnea. Her research interests include improving multidisciplinary pediatric care and patient-reported outcomes. In her spare time, she enjoys spending time with her husband and family, exploring new restaurants, and traveling.

DIVISION UPDATES

AUDIOLOGY / VESTIBULAR & BALANCE CENTER LORI GROVE, PHD

Our team of 11 audiologists have diverse backgrounds and areas of clinical expertise that allow us to offer comprehensive, high-quality clinical services, including diagnostic audiological assessment of adults and pediatrics, vestibular & balance evaluations, auditory evoked potentials, newborn hearing screening, and aural habilitation & intervention services using innovative technologies such as cochlear implants, osseointegrated devices, and hearing aids. The Audiology Division not only provides audiological services for our physicians within the Department of Otolaryngology, but also collaborates with other specialties within UVA Health and throughout the Commonwealth.

In addition to direct patient care, the Audiology Division has a long history of clinical education and training through our Audiology Fellowship Program. Our division offers a 12-month externship for three Doctor of Audiology (Au.D.) graduate clinicians during education and training. Our fellowship program provides student clinicians with a unique

opportunity to gain a wide range of clinical experience in an academic medical center with an active otology/neurotology practice. We are pleased to recognize our three outstanding Audiology Fellows that were recently awarded their doctoral degrees in May 2021 - we are very proud of their accomplishments and wish them the very best in their next steps!

As the new academic year begins, we are excited to welcome the 2021-2022 Audiology Fellows: Allison Amend from West Virginia University, Arianna Mihalakakos from University of Iowa, and Courtney Schlachter from UNC Chapel-Hill. We are also proud to announce that Bailey Aksland, Au.D. has been recently named Coordinator of our Audiology Fellowship Program. Dr. Aksland completed her own clinical fellowship in UVA Audiology and joined our clinical staff in 2019 with a clinical focus in diagnostics, vestibular evaluation, auditory evoked potentials and hearing aids.

2021 Audiology Fellowship Graduates



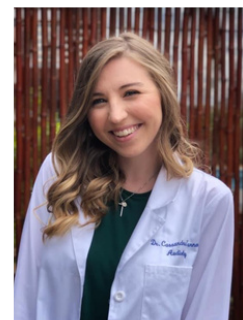
Casey Behre, Au.D
Towson University

Dr. Behre joined Wilmington ENT Associates in NC specializing in auditory evoked potentials, cochlear implants and hearing aids.



Beth Rosen, Au.D
University of Louisville

Dr. Rosen has taken a position at Charlotte Eye Ear Nose & Throat in North Carolina specializing in diagnostics & hearing aid services



Cassandra Turner, Au.D
Gallaudet University

Dr. Turner will be joining the clinical faculty in the UVA School of Education and Human Development working in the Sheila C. Johnson Center.

CLINICAL PEARL

INFANT EAR MOLDING SAMUEL OYER, MD



Initial



After 1st Molding



After Final Molding



Abnormal ear shape occurs in 15-20% of births. Some of these abnormalities are malformations or failure of the cartilage to form completely, such as microtia. Others are classified as deformations where the cartilage and skin of the ear are present, but the complex folding of the ear is abnormal. Many doctors consider these to be minor and often tell parents they will self-correct with age. However, only 30% of deformities self-correct; the rest remain permanently. While some of these deformities are minor cosmetic concerns, others cause a significant amount of psychosocial stress and lead to a disproportionate amount of bullying for the child. Surgical correction of these issues with otoplasty can help some deformities, but it is

typically deferred until about 5 years of age to allow for adequate growth of the ear and child.

When treated early, many of these deformities can be corrected with non-surgical ear molding to avoid surgery altogether. This involves a process of applying customized molds to the ear to passively re-shape the ear and hold it in the desired position. Each mold stays in place for 2 weeks and often 2-3 molding sessions are required. This treatment successfully corrects the ear deformity in 85-90% of infants when it starts in the first month of life. For these children, a simple in-office procedure early in life may help them avoid social stigma and the need for surgery as they grow.

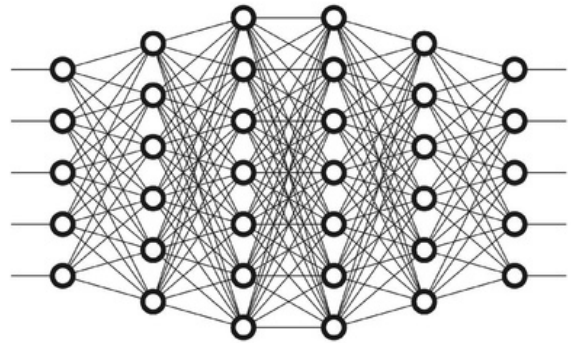
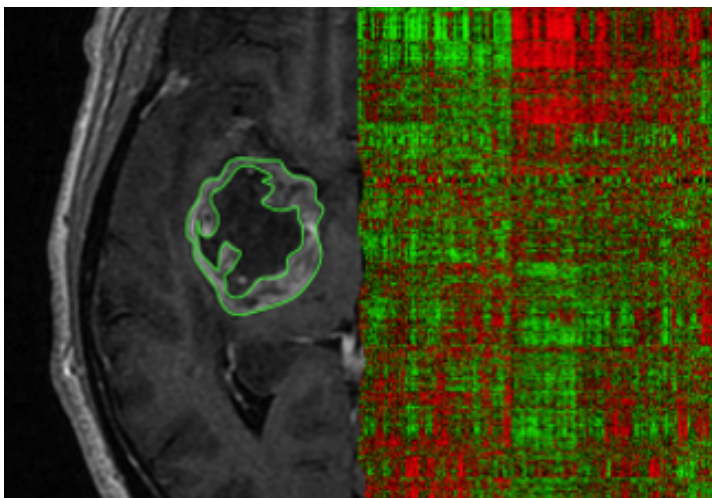
RESEARCH UPDATE

TRANSLATIONAL SCIENCE FEATURE

JONATHAN GARNEAU, MD

“Deep learning” models are being developed for safety-critical applications, such as healthcare, autonomous vehicles, and advanced security. Their impressive performance has the potential to make a profound impact on healthcare diagnostics and medical decision making. For instance, researchers have demonstrated that deep convolutional neural networks can predict outcomes in head and neck cancer, such as whether a tumor will metastasize in the future, based solely on computed tomography (CT) images. However, full adoption of such models is held back by the mistrust from regulators and clinicians due to the lack of transparency and accountability of these predictive models. Deep learning has not made it into standard clinical practice, primarily due to a lack of understanding of why a model works or why it fails.

In the field of otolaryngology, head and neck cancer is responsible for more than 650,000 cases globally and specifically in the US, accounts for 66,000 cases annually with 14,600 dying from sequelae of their disease.



Obtaining imaging studies (CT scans, PET/CT, or MRI) is critical to the diagnosis, staging, treatment, and prognosis of any patient with head and neck cancer. However, there are significant limitations in terms of correlating subjective radiographic features identified on CT imaging with certain histologic (surgical pathology) features of a given tumor or association with a patient’s prognosis and overall survival.

Recently, we’ve seen a marked increase in the incidence of human papilloma virus related (HPV+) oropharyngeal squamous cell carcinoma (OPSCC), which differs in clinical presentation and survival outcomes in comparison to alcohol or tobacco related (HPV-negative) oropharyngeal cancer. We are currently working on translational research to develop clinically “interpretable” and reliable deep learning models as it pertains to the diagnosis and treatment of HPV related oropharyngeal carcinoma. For example, we are evaluating machine learning’s ability to predict a patient’s risk of developing distant metastasis, tumor recurrence, and HPV status based on solely on their imaging studies. Our research will focus on making fundamental contributions to computer science to improve outcome predictions of head and neck cancer imaging, with the hope to create “radiographic biomarkers” that can be used in clinical practice at the time of diagnosis, measuring response to treatment, and prognosis.

RESEARCH UPDATE

INNOVATION GRANT CLAUDIA GUTIERREZ, MD

IMPROVING THE PATIENT EXPERIENCE DURING IN-OFFICE OTORHINOLOGOLOGY PROCEDURES – COMBINING AUGMENTED REALITY (AR) WITH VIBRATORY STIMULATION

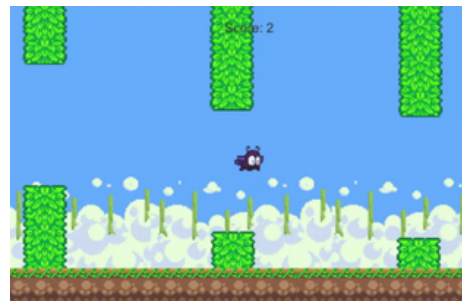
This project consists of a team of engineers, medical students and physicians focused on developing a custom AR experience and wearable modular device that can deliver vibratory stimulation to the neck. In combination, the goal is to achieve the optimal patient experience during in-office laryngology procedures e.g. KTP laser ablation of polyps and early cancer and vocal cord injections. Thus far, we have developed a prototype augmented reality experience consisting of two simple games: stacker and variation of “flappy bird”, and a prototype of the vibratory device. After IRB approval is granted, we look forward to testing our device in clinic this academic year and plan to incorporate real patient feedback as we develop our next prototype!



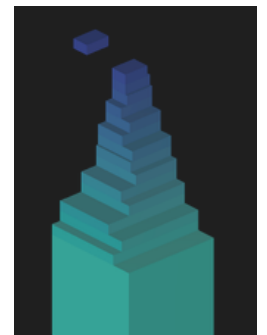
Prototype of the vibratory device to be placed on the neck



Augmented reality glasses



Variation of “flappy bird”



Stacking game

Research Fellowship



Osama Hamdi, MD

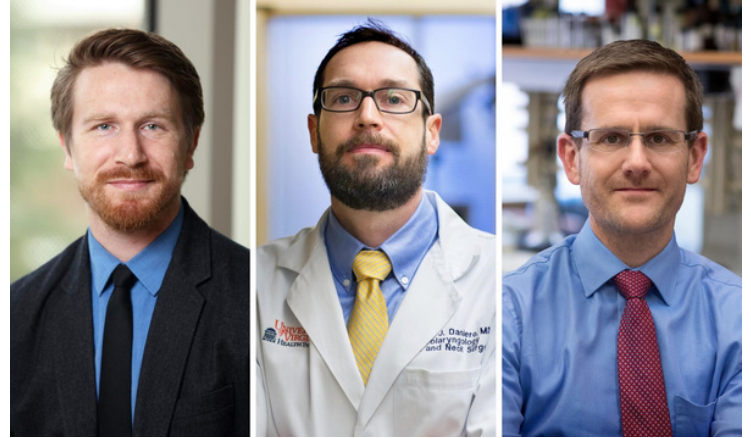
Dr. Hamdi is a Syrian-American who grew up in Baton Rouge, LA and attended middle and high school in Saudi Arabia and Syria before moving back to the US for college. After graduating with a degree in Bioengineering from the University of Maryland he completed his medical education at Howard University. With a background in theatre and improv Dr. Hamdi values communication which strongly influences his research interests. His interests include QI of head and neck reconstructions, facial nerve reanimation, and voice disorders with an emphasis on helping restore patients’ ability to confidently express themselves through their facial expressions and voice.

In this funded position, Dr. Hamdi will collaborate with faculty mentors to conduct independent research projects over multiple disciplines. The goal of the fellowship is to provide 12 months of specialized research training towards developing: foundational knowledge and principles of study design, conduct, and data analysis; exposure to different otolaryngologic and research disciplines; and expertise supporting an academic career in otolaryngology.

RESEARCH UPDATE

NIH GRANT JAMES DANIERO, MD ENGINEERED BIOMATERIAL FOR ENDOSCOPIC TREATMENT OF AIRWAY FIBROSIS

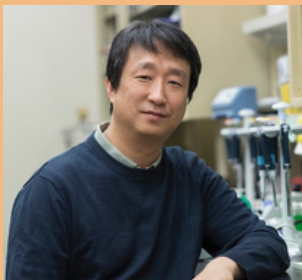
In January 2021 Dr. James Daniero, UVA otolaryngologist, and Dr. Donald Griffin, UVA Biomedical and Chemical Engineering Assistant Professor, were awarded an National Institutes of Health R-21 grant (Exploratory/ Developmental Research) from the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) to develop a microporous hydrogel that adheres to areas of mucosal injury, accelerates wound healing, and reduces scar formation. Although this biomucosal sealant is broadly applicable to all forms of natural orifice transluminal endoscopic surgery (NOTES), the specific application of this technology is designed to treat acute laryngeal injury and prevent the development of posterior glottic stenosis. Given the surge of intubation-associated laryngeal injuries resulting from the SARS-CoV2 pandemic, the impact of this research has risen significantly. During the first year of this 2-year project, a rabbit model of laryngeal injury was developed and in vitro optimization



Drs. Don Griffin (BME), Jim Daniero (O-HNS), Patrick Cottler (Plastic Surgery) are collaborating to bring biomaterials science to the clinic.

of mucosal adhesive properties is ongoing. In 2022 a rabbit model randomized trial of (1) base hydrogel, (2) mucosal adherent hydrogel, and (3) saline will be conducted to demonstrate wound retention and anti-fibrotic properties. Following completion of the proof-of-concept study, the final version of the biomucosal sealant will be commercialized for endoscopic wound healing across many applications, including laryngeal injury from COVID-19.

JOINT RESEARCH FACULTY



Jung-Bum Shin, PhD
Associate Professor, Dept. of Neuroscience
Research Disciplines- Auditory Neurobiology



Daniel Gioeli, PhD
Associate Professor, Dept. of Microbiology, Immunology, and Cancer Biology
Research Disciplines- Biochemistry, Cancer Biology, Experimental Pathology, Molecular Biology



Patrick Cottler, PhD
Assistant Professor, Dept. of Plastic and Maxillofacial Surgery
Research Disciplines- Plastic Surgery, Wound Healing

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HONORS & AWARDS

2020-2021



Dr. Spencer Payne is awarded the Distinguished Service Award by the American Academy of Otolaryngology-Head and Neck Surgery.

-Best Doctors in America- Dr. Mark Jameson (2020), Dr. Bradley Kesser (2020), Spencer Payne (2020)

-AAO-HNS Distinguished Service Award- Dr. Spencer Payne (2020)

-AAO-HNS Honor Award- Dr. James Daniero (2021)

-UVA Outstanding Patient Experience Award- Dr. James Daniero (2020 & 2021), Dr. Katherine Fedder (2020), Dr. Mark Jameson (2020), Dr. David Shonka (2020 & 2021)

-UVA Dean's Award for Clinical Excellence- Dr. Spencer Payne (2020)

-2021 Roger A. Ruth Distinguished Audiologist Award- Dr. Tucker Gleason

-Top Doctor (Castle Connolly)- Dr. Bradley Kesser (2020 & 2021), Jose Mattos (2021), Spencer Payne (2021), Dr. David Shonka (2021)

American Neurotology Society Presidential Citation- Dr. George Hashisaki (2021)

-UVA Otolaryngology 2021 James F Reibel Teaching Award- Dr. Jonathan Garneau

-2021 Leonard Tow Humanism and Excellence Resident Teaching Awards- Dr. Neil Saez

-First Place- Resident Research Award, 2021 Fitz-Hugh- Dr. Jeffery Mella

-Second Place- Resident Research Award, 2021 Fitz-Hugh- Dr. Rachel Jonas

-First Place- Paul A Levine & Robert W Cantrell MD Research Grant, 2021 Fitz-Hugh- Dr. Simone Barker

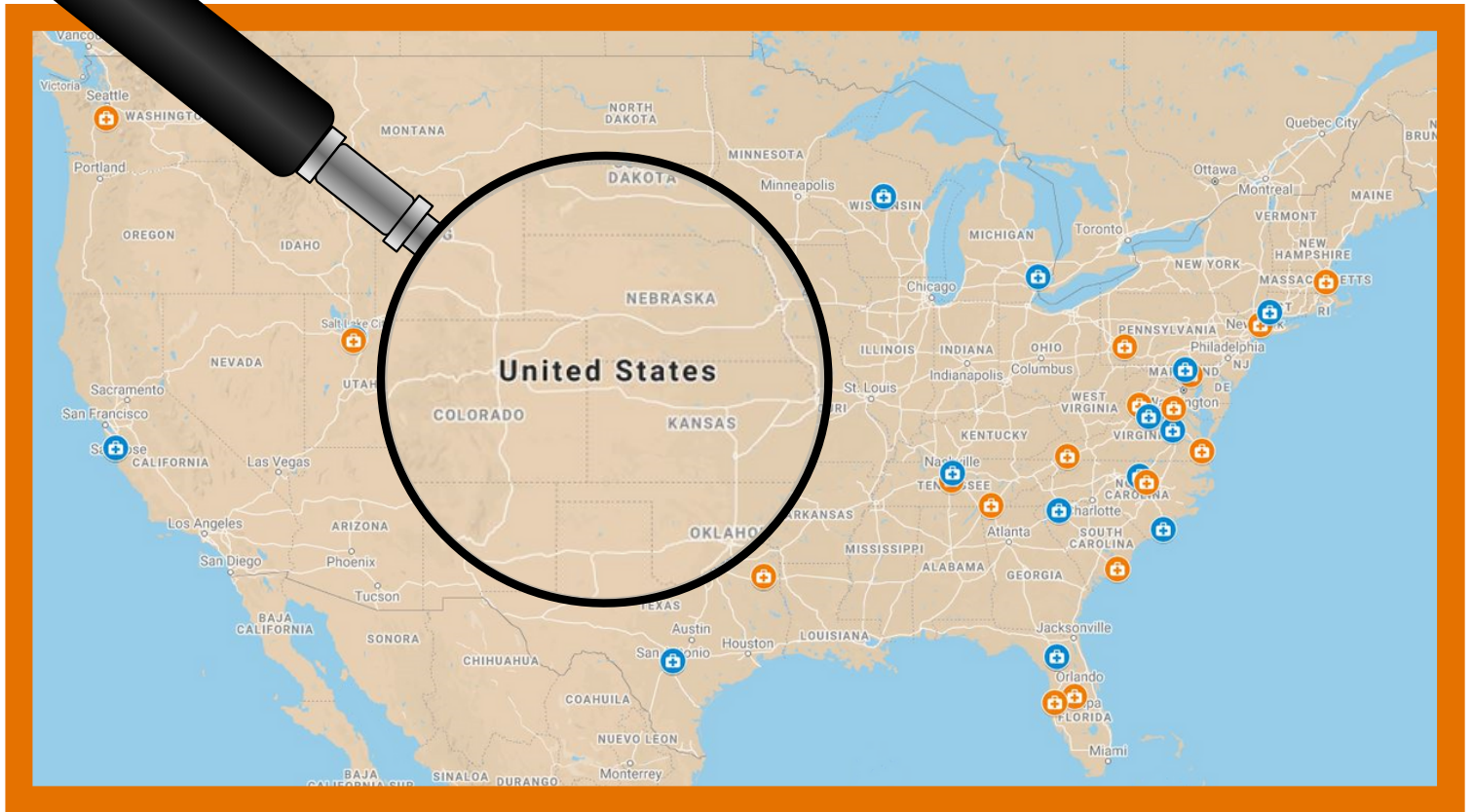
-First Place- Resident Temporal Bone Dissection Award, 2021 Fitz-Hugh- (TIE) Dr. Caitlin Iorio & Dr. Ian Churnin



Dr. Caitlin Iorio & Dr. Ian Churnin tie for first place for the Resident Temporal Bone Dissection Award presented by Dr. George Hashisaki at this year's Fitz-Hugh Symposium.

Where are they now?

This map depicts locations of our graduating residents over the last 10 years.



2021

Dr. Casale: Otology/Neurotology Fellowship at Michigan Ear Institute

Dr. Bartels: FPS Fellowship Tampa, Dr. Edward Farrior

2020

Dr. Koehn: Faculty at Medical College of Georgia

Dr. Hyde: Private Practice in Wausau, WI

Dr. Corby: Private Practice in Wilmington, NC

2019

Dr. Miller: Faculty at University of North Carolina

Dr. Reed: Private Practice in Pittsburgh, PA

Dr. Schoeff: Private Practice in Tacoma, WA

2018

Dr. Dougherty: Faculty at Eastern Virginia Medical School

Dr. McGarey: Faculty at University of Virginia

Dr. Peters: Private Practice in Raleigh, NC

2017

Dr. Bakos: Private Practice in Fredericksburg, VA

Dr. Koors (In Memorium): Private Practice in Danbury, CT

Dr. Langford: Private Practice in Tyler TX

2016

Dr. Allak: Private Practice in Riverton, UT

Dr. Danan: Faculty at University of Florida

Dr. Teng: Private Practice in Santa Cruz, CA

2015

Dr. Barrett: Faculty at Duke University

Dr. Fishero: Private Practice in Richmond, VA

Dr. Hubbard: Private Practice in Abingdon, VA

2014

Dr. Carlson: Private Practice in Greenville, SC

Dr. Hughley: Faculty at University of Florida

Dr. Robinson: Private Practice in Harrisonburg, VA

2013

Dr. Barker: Private Practice in Chattanooga, TN

Dr. Nguyen: Private Practice in Baltimore, MD

2012

Dr. Chen: Faculty at UT San Antonio

Dr. Rasamny: Private Practice in Ardsley, NY

Dr. Stuart: Private Practice in Davenport, FL

ALUMNI FEATURE

DAN BECKER, MD



Growing up in Norfolk, Virginia, Dr. Daniel Becker was a natural fit to become part of the UVA family. He graduated from Harvard in 1986 and returned for medical school at UVA. As he progressed through his medical training he was attracted to Otolaryngology, and he became a “Double Hoo” when he undertook his training here at the University from mentors who would later become life-long friends and colleagues, including Drs. Bob Cantrell, Charles Gross, Paul Levine, Jim Reibel and new faculty member (at the time) Stephen Park. Like all graduating residents, Dr Becker became a part of an Otolaryngology family that stretches far beyond state borders, and he feels continued gratitude for his residency experience and his time at the University. Following his fellowship training in Chicago in Facial Plastic and Reconstructive Surgery, with an emphasis on Rhinoplasty and Revision Rhinoplasty, with Drs. M. Eugene Tardy and Dean Toriumi, Dr. Becker accepted a position in the Department of Otolaryngology at the University of Pennsylvania where he began his academic career.

After 7 years at the University of Pennsylvania, where he served as the first director of the Division of Facial Plastic and Reconstructive Surgery, Dr Becker founded Becker Nose and Sinus Center. He was joined by his brother Dr Samuel Becker, and his “work family” has grown organically since then; they currently treat over 100,000 patients a year at 14 clinics throughout New Jersey and Pennsylvania where they provide subspecialty treatment covering a broad range of conditions of the head and neck, including: voice and swallowing disorders, sinus-related disease, allergy, facial plastic surgery, ear disorders, general ENT and pediatric otolaryngologic issues. In 2019 they became part of the University of Pennsylvania Health System as Penn Medicine Becker ENT and Allergy.

Dr. Becker’s subspecialty practice focuses on functional and cosmetic problems of the nose including rhinoplasty, revision rhinoplasty and sinus surgery. Dr Becker is Clinical Professor in the Department of Otolaryngology at the University of Pennsylvania. He has published 3 textbooks, most notably a textbook on revision rhinoplasty with Dr Park and also a free online textbook www.RhinoplastyArchive.com. Dr Becker is also Program Director for a Facial Plastic & Reconstructive Surgery fellowship at the University of Pennsylvania.

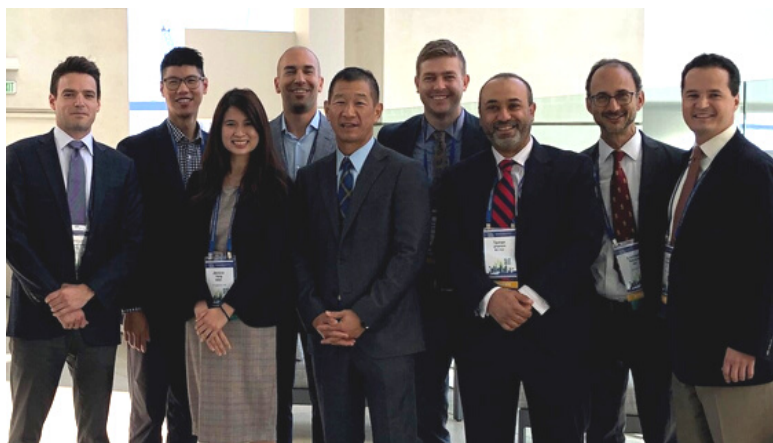
If there’s one vital lesson that Dr. Becker learned in his time at UVA, it is to put your patients first. Even with the research and other important work being done in the department, the faculty always emphasized the basic but essential principle that your time with patients is sacred, and that they deserve your undivided attention. Dr. Becker has tried to epitomize this principle throughout his career, and he has found that his interactions with patients have been the greatest reward of his career.

As travel begins to increase throughout the country, Dr. Becker is looking forward to returning to his UVA family in Charlottesville

ATTENTION UVA Oto-HNS Alumni

Keeping in touch with our alumni is important to us. Please update your contact information via the online form below:

<https://med.virginia.edu/otolaryngology/education/alumni/>



UPCOMING EVENTS



2022 Fitz Hugh Symposium & Alumni Reunion

Wahoo Otolaryngology family!!!!

It is with great excitement that we announce plans for the Fitz Hugh Symposium **June 24-26, 2022** which will serve as an alumni gathering. Our gathering in 2018 was spectacular, with robust scientific sessions complimented by wonderful reunions of all generations.

We invite all to join us and participate in our gathering next year. More information on the way...

2022 Jahrsdoerfer Visiting Professor

Last year Dr. Stephanie Moody-Antonio of Eastern Virginia Medical School was the guest speaker of our first ever virtual jahrsdoerfer visiting professor lecture. With overwhelming support from our participants, this year we look forward to planning our first hybrid lecture with both virtual and in-person options. Stay tuned for lecture dates and speaker announcements.

The Nose Course: Inside & Out

A multi day comprehensive course on sinus surgery and rhinoplasty. Coming Fall 2022. More details to follow.

Head & Neck Cancer Community Outreach

Community outreach is a core mission for the Head & Neck Team. Locally our physicians and speech language pathologists participate in survivor workshops to help patients improve their quality of life after cancer treatment. We also host free head and neck cancer screenings for the community with distribution of educational materials on major risk factors. In the fall of 2019 we expanded on this local screening program with an event in southwest Virginia in partnership with Dr. Matthew Hubbard, an alumnus of our residency program. A multidisciplinary team of UVA physicians and tobacco cessation counselors traveled to Abingdon, VA to provide free cancer screenings and education to a medically underserved population with high incidence of head and neck cancer. Unfortunately this type of outreach has been on hold during the pandemic, but we look forward to resuming this work including further regional events in the coming months.

Philanthropy

A gift to the University of Virginia Department of Otolaryngology-Head and Neck Surgery Resident Education Fund exclusively supports resident education at different levels including books, conferences, etc.

Please consider supporting the next generation of Otolaryngologists. If you would like to make a philanthropic investment in UVA Oto-HNS go to, <https://www.uvamedalum.org/giving/departments-of-otolaryngology/>

HEALTH & WELL-BEING

HARNESS THE BENEFITS OF INTERMITTENT PHYSICAL ACTIVITY

JOSEPH GIANDONATO, MBA, MS, CSCS
EMPLOYEE WELL-BEING COORDINATOR
HOOS WELL

Free time seemingly dwindles as we age. Despite deploying hacks and elaborate measures to improve our time management, devoting time to loved ones, hobbies, and getting in shape remains challenging. Luckily, busy schedules do not have to be overhauled entirely to achieve a sufficient level of physical activity and overall wellness.

The American College of Sports Medicine (ACSM) and Centers for Disease Control and Prevention (CDC) recommend that all healthy adults aged 18-65 should engage in moderate intensity physical activity for a minimum of 30 minutes five days per week, accumulating 150 weekly minutes, or vigorous intensity activity for a minimum of 20 minutes three days per week, totaling 60 weekly minutes. Examples of moderate intensity physical activity include walking, whereas group exercise, calisthenics, resistance training performed with one's bodyweight or external loads, or running qualifies as vigorous intensity.

However, reductions in cardiometabolic disease risk, improvements in fitness, and quality of life are tied to the weekly accumulation, not the daily duration of physical activity, which, customarily and unsustainably for most, calls for an hour at the gym.

And the benefits aren't just physical: meeting the joint ACSM/CDC weekly physical activity recommendations has been established to improve mental health and neurocognitive performance. Instead of putting your Outlook calendar and Epic appointment wizardry to the mettle to squeeze in a 30-to-60-minute workout, bookend or intersperse your workday with bouts of physical activity that total 30 minutes.

Tips to Increase Physical Activity During Your Workday

1. Stagger your commute with active commuting (i.e. walking or biking when and where possible, if safe to do so).
2. Park further away from entrances of buildings and shuttle or bus stops you frequent.
3. Opt for the stairs instead of the elevator or escalator.
4. Skip the food delivery service and walk or bike to your favorite take-out spot.
5. Incorporate some "deskercise" or movement at your desk or workstation consisting of stretching, mobility, or stabilization exercises which not only burn calories, but improve your posture.
6. Put down the phone and push your keyboard away. Drop by the intended recipient's office or workstation if time permits and it's safe to do so.





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