



Heads Up

Multidisciplinary Collaboration: Advancing Pediatric Skull Base Surgery



Drs. Adam Zanation, Austin Rose, and Paul Bryson with the patient in the holding area before surgery. Not pictured: Dr. Anand Germanwala (UNC Neurosurgery)

In March 2009, a 12-year-old boy presented to pediatric otolaryngologist Dr. Austin Rose for severe recurrent epistaxis. The patient had been to multiple ERs and had chronic anemia from the recurrent nose bleeds. On exam, the patient was noted to have a large right-sided vascular nasal mass extending from the right lateral nasal wall and filling the nasopharynx. A CT and an MRI were obtained (Figure A) showing a vascular nasal mass consistent with a juvenile angiofibroma. The tumor extended from the right infratemporal fossa, filling the right sphenopalatine fossa and extending up to the sphenoid skull base. Due to skull base involvement and the tumor's large size, the best option for the patient was with multidisciplinary care. Dr. Rose presented the patient to Dr. Adam Zanation, who specializes in head and neck surgery and skull base surgery. The two surgeons presented all treatment options to the patient and the family, and decided on proceeding with an expanded endoscopic approach to the tumor and the skull base. This is a novel

approach for a giant JNA such as this one. With no incisions on the face or head, the tumor was removed en-bloc through the nose on June 3, 2009. The surgical team was made of Dr. Adam Zanation, Dr. Austin Rose, Dr. Paul Bryson (Chief Resident), and Dr. Anand Germanwala (UNC Neurosurgery). The surgery lasted 5 hours and the entire tumor was removed (Figure B) once vascular control of the tumor feeders was achieved. The patient was discharged home from the hospital on post-operative day 2.

This case illustrates the growing overlap of subspecialty skull base care that is being provided within the Department. As techniques and experience lead us to utilize the endoscopic corridor for more complex skull base lesions, the natural progression is to utilize this approach for pediatric skull base tumors. Dr. Zanation's lab has recently published one of the first papers on endoscopic pediatric skull base surgery and reconstruction in *Laryngoscope*, which illustrates the hurdles and offers solutions that

these pediatric cases present. What is clear is that all pieces of this multidisciplinary puzzle are integral and needed to optimize patient care. Drs. Rose, Carlton Zdanski (Pediatric Otolaryngology), Zanation, and Germanwala are all currently working together to provide the most advanced pediatric tumor care and advance the research in pediatric skull base tumor surgery. For skull base tumor referrals, please call the UNC Head and Neck Oncology Program at 919-966-9717.

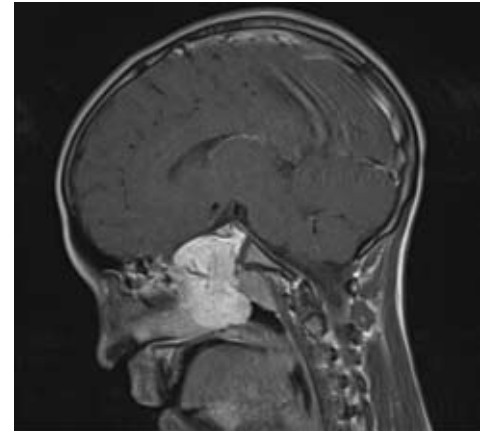


Fig. A: Pre-op scan showing the vascular nasal mass



Fig. B: Post-op, the entire tumor is removed

Chief Residents Express Gratitude



Chief Residents at the dinner held in their honor on June 6, 2009, upon successful completion of the residency program: Charles S. Ebert, MD, MPH; Paul C. Bryson, MD; W. Derek Leight, MD; and Allen F. Marshall, MD.

Charles (“Carlos”) S. Ebert, MD, MPH:

The time I’ve spent as an Otolaryngology resident at the University of North Carolina will always be a very special part of my life. The distinguished faculty has aided my development in countless ways as a surgeon, researcher, and especially as an individual. I have been blessed with the opportunity to receive training from such a renowned, supportive, and dedicated group of faculty. The depth and breadth of our training is without equal and I feel prepared to embrace the opportunities and challenges that the future may bring. THANK YOU all for the countless hours devoted to our instruction, the preparation of talks to further our education, and the cultivation of our overall development!

Dr. Ebert was the first resident to complete the 7-year research track. On July 20th he begins his faculty appointment with us as an Assistant Professor, specializing in Rhinology and Sinus Surgery. Of note, he was the recipient of a 2009 Robert C. Cefalo House Officer Award, given each year to five senior residents in the UNC School of Medicine who demonstrate effective communication with and empathy for patients and their families, exemplary professionalism, and the highest standards of patient care.

Paul C. Bryson, MD:

I am indebted to my professors for their

patience, devotion to resident education, and commitment to providing excellent patient care. I have also learned a lot from my co-residents and will miss the camaraderie and collegiality that so embodies UNC Otolaryngology.

Dr. Bryson will be embarking on a fellowship in Laryngeal Surgery and Voice Rehabilitation at the Massachusetts General Hospital, Harvard Medical School, under the direction of Dr. Steven Zeitels.

W. Derek Leight, MD:

I have been truly blessed to have been a part of such a special place. Our department is top notch in reputation, but world class in character. Each

faculty member has a rare, special blend of intellect, compassion, ability, and dedication. The caliber of our education is surpassed only by the quality of our mentorship and our personal relationships among faculty and residents. Thank you to all the faculty, for your time, your instruction, and your example of steadfast dedication to your patients and to the practice of medicine. I will always cherish being a part of the UNC Otolaryngology family.

Dr. Leight is heading out to Omaha, Nebraska, where he will be doing a fellowship in Rhinology at the Department of Otolaryngology-Head and Neck Surgery at the University of Nebraska under Dr. Donald Leopold.

Allen F. Marshall, MD:

I feel tremendously grateful to the exceptional faculty that I have worked with over the last five years. I have had the privilege to benefit not only from their clinical and surgical expertise but their remarkable teaching skills as well. Such exposure has greatly influenced my own career decision to incorporate resident teaching as a major component of my practice. As faculty with the Wake Med division, I look forward to giving back to future residents for years to come.

Dr. Marshall will be staying with the Department as an Assistant Professor at WakeMed Faculty Physicians ENT-Head and Neck and Facial Plastic Surgery in Raleigh. Beginning on July 13th, Dr. Marshall will practice all areas of Otolaryngology.

Chair’s Corner



Harold C. Pillsbury, MD
Department Chair

This has been a wonderful year for our Department in terms of academic success and clinical progress. We have brought on Dr. Adam Zanation, who has become a dynamo in our ranks. Two of our residents have found fellowships they really wanted, and two will be joining our faculty here at UNC. We look forward to their continued success! The economy has affected us all, but we will persevere. This issue of *Heads Up* is a fine example of our continued progress!!

Meet the New Residents!

Introducing a terrific lineup of future Otolaryngologists/Head and Neck Surgeons:

Baishakhi Choudhury, MD, is originally from Queens, New York City. As an undergrad at SUNY at Binghamton University following the molecular track, she majored in psychobiology and minored in computer science. She then spent three years at the National Institutes of Health as a post-bac research fellow in the National Cancer Institute doing research in immunology. She received her MD from SUNY at Buffalo School of Medicine and Biomedical Sciences in Buffalo, New York. She was accepted to the 7-year research track of our program, and will focus on hearing research. Baishakhi enjoys the outdoors, playing tennis, and travel, having recently returned from Ecuador.



Dr. Baishakhi Choudhury



Dr. Jake Dahl

John P. Dahl, MD, PhD, MBA, is called “Jake” and is from Averill Park, a small town in Upstate New York. Before entering medical school at Jefferson Medical College in Philadelphia, he earned both an MBA and a PhD at The Pennsylvania State University, worked in the pharmaceutical industry at Wyeth Research and Johnson & Johnson, and completed post-doctoral research training in human molecular genetics at the University of Pennsylvania School of Medicine. Jake is an avid sports fan and especially roots for the New York Yankees baseball and Giants football teams. We hope to convert him to a Tarheel basketball fan as well, at least when they’re not playing against his undergraduate alma mater, Villanova.



Dr. Alex Farag



Dr. Brian Thorp

Alexander Farag, MD, is originally from Mansfield, Ohio. He majored in chemistry and graduated from The College of Wooster, in Wooster, Ohio. He earned his MD from The University of Toledo College of Medicine. During that time, Alex was involved in many projects in organized medicine, including restructuring their local chapter from one of the weakest in the state to being named one of the top 10 nationally in 2 years. Currently his online module and mentoring groups have been implemented as part of the 3rd year curriculum, and he has plans to present this research at several national

meetings. Alex has major interests in head and neck cancer, sinus disease, and laryngology. Outside of medicine, he was on the swim team in college and continues to enjoy swimming, as well as snow skiing.

Brian D. Thorp, MD, has lived in many places as his father was in the Navy, and the family settled in Chesapeake, Virginia, when he was in high school. Brian received his BS in biology with honors scholar distinction from James

Madison University, followed by his MD from the Eastern Virginia Medical School in Norfolk. He is particularly interested in exploring anterior endoscopic skull base surgery and neurotology. Of note, Brian has a twin sister who has just earned her AuD, with major interests in cochlear implantation and the vestibular system. Brian enjoys hiking and camping, as well as all kinds of sports. He’s also a huge college sports fan, especially of the ACC.

Five Questions for Judith Miles, RN

1 Why did you choose a career in nursing?

When I was 5 years old, my brother and I were playing on a large tree that had just been cut down on a hill. The tree started to roll, my brother jumped off, I fell backwards, and the tree rolled over me. As a result, I had a fractured skull and an orbital fracture. I was unconscious for 2 weeks and hospitalized for a month. In those days children were placed in a ward with several other children. I would get upset when the other children got pills and I didn't get anything, so the nurses would bring me M&M's and tell me they were my pills. Due to my extensive stay, I was quite spoiled by the staff and they became my second family. This experience and my mother are what influenced me to choose a nursing career. I never considered any other career.

2 How did the UNC ENT Allergy Clinic get started, and how has it changed over the years?

Dr. Biggers started the ENT Allergy clinic because so many ENT patients had allergy problems that he thought we could serve them better by treating them in our clinic instead of referring them out to allergy clinics. The ENT clinic has a good reputation for treating the patients without sending them to numerous other clinics. We have seen this recently with the addition of the CT scanner at Carolina Pointe. Libby Drake was the first nurse that helped get the allergy clinic started. I was the second nurse hired. I will never forget my interview when I was hired. I had been a trauma nurse, cardiovascular nurse, and an oncology clinician prior to allergy. The supervisor interviewing me was concerned I would be bored with this job and become unhappy. I had three children under the age of 7, so boredom sounded pretty good to me. I took the job and I have never been bored and have never had any regrets. The clinic has moved a lot over the past 25 years. We made two moves at the hospital, we moved some patients to Franklin Square and to the ACC, then Neurosciences, and the last move to Carolina Pointe. The only complaint I have



Judy Miles makes getting allergy shots almost fun. Dr. Brent Senior's daughters are two of her many fans. "Judy gives us our shots and it doesn't even hurt!" says 9-year-old Anna (on the left). Her sister Grace, age 10, agrees: "Now that we are getting our shots, Daddy will be able to get us a dog!" Dr. Senior adds, "Judy is indispensable to our allergy clinic and the Rhinology division. Her outstanding skills combined with her wonderful patient rapport make her a wonderful asset."

about these moves is we have never had a window. The two worst experiences during these years were the death of Dr. Biggers and Libby's retirement. The good news is that Gina Stoffel has been a delight to work with, and I am happy to have her on my team. The clinic has grown by leaps and bounds as we have hired more physicians with sinus specialties. Drs. Pillsbury, Senior and Zanation have really caused a big growth in the allergy clinic.

3 How do you like working at the Allergy Clinic at Carolina Pointe?

Carolina Pointe opened two days after I broke my leg and arm while changing a ceiling fan light bulb. Libby did a wonderful job keeping both clinics going during my four-month recovery. Coming to Carolina Pointe was a godsend for me since on my return I was still wheelchair and crutch bound. I didn't even have a stoplight to go through to get to Carolina Pointe. The patients love the convenience

of CP, and it would be perfect if I could talk a physician into going to work with me at 6:00 a.m. so patients could come before work. Parking is wonderful, the patient population is not as sick as at the hospital, so the environment is better for strictly outpatients.

4 What do you enjoy most about your job?

My patients are the best part of my job. I get to see the same patients year after year and form a nurse-patient relationship that becomes special. After a time they don't seem to notice that I always have a needle in my handle and I don't notice that they are always complaining about the pollen. (Hopefully this will stop when they are desensitized.) Many people don't realize how badly allergies can affect your daily life. I try to give my patients the empathy they need and let them know that even though allergies are not often life threatening, they can certainly affect your physical and mental health. Chapel Hill has such a diverse group of people that my patients are always interesting and there are no dull moments.

5 How do you respond to patients who are absolutely terrified of needles?

The secret to caring for people who are afraid of needles is distraction. If you can get your patient thinking about something other than needles, you have won the battle. The children are the most fearful and the hardest to distract. If you can get that first test done, they realize it's not so bad. I always ask my patients if they have ever passed out from a needle. If the answer is yes, I automatically put them in a lounge chair with feet elevated when I do their skin test.

In closing, this job my supervisor thought I wouldn't like and would bore me to death has turned out to be a job that 26 years later I still find challenging. I enjoy my patients and my co-workers, and I never get out of bed in the morning dreading to go to work.

A Lesson on Hearing: From Clinic to Classroom

by Meg Dillon, AuD

During a follow-up appointment, Sherry Imrie, a recent cochlear implant recipient from Goldsboro, NC, shared her difficulty to understand conversations with her 7-year-old grandson. Tyler would raise his voice when talking with his grandmother, which felt uncomfortably loud to Sherry and tough to comprehend. Tyler was interested in learning more about his grandmother's new way of hearing, and Sherry asked if I would speak to her grandson's elementary school class.

On Friday, February 13th I visited the students in Ms. Lisa Hendrickson's class at Wayne Montessori School to talk about hearing loss and auditory devices. Ms. Hendrickson prepared the class for the visit, teaching them about the meaning of audiology, the auditory pathway and how sounds get to the brain. After reviewing how we hear, we talked about ways to protect our hearing. Students offered suggestions like staying away from loud noises, wearing earplugs during loud activities, and turning down the volume when listening to music.

The students were curious about how to become audiologists and how they help people with hearing loss. Ms. Hendrickson reiterated the importance of working hard in school to become an audiologist. We then talked about how the students can currently help people with hearing loss through communication strategies, like facing the person and speaking slowly and clearly. They learned about how hearing aids amplify sounds and performed listening checks on a hearing aid. Next, we covered cochlear implants and how this technology differs



Dr. Dillon describes cochlear implantation to the class, while Ms. Hendrickson studies a demo internal device.

from hearing aids. Sherry shared her story about why she needed a cochlear implant, the surgery, her speech processor, and how she hears now. She allowed students to see how her speech processor connects to her head and how to change the programs and volume.

This sharp class asked great questions, with a few saying they wanted to become audiologists. They even recommended future modifications for cochlear implant manufacturers, including developing a pause button for patients when other people talk too fast.

"I was happy to participate," said Sherry. "I hope that the kids will always remember what they learned about being hearing impaired." And what did her grandson think? Tyler said learning more about his grandmother's cochlear implant was "cool."

*Special thanks to Mr. and Mrs. Imrie, Ms. Hendrickson and her class for inviting me to visit.

Marcia Clark Adunka, AuD, Director of the UNC Adult Cochlear Implant Program, tells more about Meg and the program's externship:

The UNC Adult Cochlear Implant program has a long history of acquiring master's

and doctoral level candidates of audiology to complete a one-year externship in its unique clinical setting at UNC Hospitals. The aim of this specialized training is to allow the student clinician to better hone his/her skills in the art and application of clinical care to adult cochlear implant recipients. For the clinical year beginning June 2008-May 2009, UNC was privileged to enjoy the presence of Meg Dillon. Meg completed both her undergraduate and graduate studies at the University of North Carolina at Chapel Hill. Her graduate studies in the Division of Speech and Hearing at UNC-Chapel Hill involved three years of structured coursework and research in the broad field of audiology, and her fourth year was dedicated to her clinical placement in cochlear implants.

During her extern year, Meg's skill and knowledge in working with adult cochlear implant patients became evident. She was not only successful in providing quality care to patients and answering their questions of concern but also skilled in communicating the concepts of cochlear implantation to persons in the community. With such a remarkable student clinician under our wing, we were proud to extend her a full time placement as part of UNC family beginning in August 2009. In this capacity, Dr. Dillon will continue both clinical research and clinical care in the area of adult cochlear implants.



Dr. Dillon reveals the external speech processor of Mrs. Imrie's cochlear implant, which is normally hidden by her hair.

The Changing Face(s) of WakeMed ENT

by Michael O. Ferguson, MD

Over 15 years ago, Dr. Pillsbury made a critical decision for the future of UNC's Otolaryngology residency program by creating a clinical position at what was then known as Wake Medical Center in Raleigh. The original position was as a solo practitioner, under the umbrella of the Wake Area Health Education Coalition, staffed by one resident and primarily intended for the expansion of the residency's trauma experience.

Since that time, the WakeMed division has gone through many permutations and has seen several physicians make their mark on the program only to move on to other pastures. Stability and retention of the attending staff proved difficult over the first decade of the practice, despite the stable leadership of Dr. Pillsbury and Dr. Scott Meredith. Then over the course of three years, starting in 2001, the practice made three key hires in Brett Dorfman, Michael Ferguson, and Raymond Cook, and WakeMed ENT/Head and Neck Surgery hasn't looked back since.

Now in 2009, the practice has blossomed in numbers and success. By July of this year, the WakeMed group will have grown to six attendings, with the addition of three more incredible hires over the past two years. Although trauma remains a focus for the WakeMed group, the umbrella of services that it provides to the UNC residents and the patients of WakeMed continues to expand. In 2003, the WakeMed North practice was opened, in an attempt to capture a larger market share of the Raleigh patient population as well as to expand the educational opportunities of the UNC residents. Dr. Cook has seen a rapid expansion of his facial plastics practice at WakeMed North, providing experiences in operative cosmetics that UNC residents had previously limited exposure to. On the heels of this success, the practice has recently opened a full-service MedSpa to complement the facial plastics opportunities. As a result of the success of this satellite office, WakeMed ENT recently made the decision to open a third office in Knightdale, and this will be up and running by late summer, adding another dimension to the practice, and allowing increased opportunities for resident education.

All this growth and change doesn't happen by accident, and it doesn't happen if the practice isn't made up of an incredible group of otolaryngologists and educators. Drs. Dorfman, Ferguson, and Cook are the senior members of this group and have waived the flags of both UNC and WakeMed for many years. But it is the new arrivals that have truly put WakeMed's division in a different echelon, and the WakeMed ENT group looks forward to a lifelong contribution from all of them.



WakeMed ENT: Drs. Allen Marshall, Brett Dorfman, Carol Shores, Michael Ferguson, Raymond Cook, and Esa Bloedon.

The first newbie to arrive on the scene was Dr. Esa Bloedon, who graduated from UNC's undergraduate program in 1994. After college, Dr. Bloedon spent the next few years of his life soaking in the experiences of travel, finally settling in to medical school at Thomas Jefferson Medical College and graduating *magna cum laude* in 2003. He stayed at Jefferson for residency and was heavily recruited to stay on staff there after the completion of his residency. But the call to return to North Carolina was too great for Esa and his wife LeAnne, a North Carolina native herself, and they returned with their two boys, Rhys and Pierce, in the summer of 2008. They have since added a third, daughter Avery, but despite the whirlwind of family life, Dr. Bloedon has still somehow found the time to quickly grow his practice, focusing on continuing the trend of this group of physicians by maintaining a practice that can best be described as a high-level generalist, meaning he'll essentially do it all.

The next freshman to arrive on campus was not quite so new to the scene, as only the fewest of readers of this publication aren't aware of the near decade of contributions to the UNC program by Dr. Carol Shores. Despite serving as one of UNC's all-time most beloved attendings at UNC since the year 2000, the loss of WakeMed's only dedicated head and neck surgical oncologists almost two years ago put the rest of the practice in a small bind, as many head and neck cancer patients have long depended on the services provided by our hospital. So through a series of truly fortunate events, Dr. Shores made a game-saving decision to leave her comfy Chapel Hill clinical confines to join the WakeMed group in Raleigh. But although the location is different, the care

and compassion Dr. Shores shows for this population of patients and the dedication she has for residents remains unflinching.

The final piece of the puzzle arrives this summer as the combination of the prior two arrivals: fresh out of residency but certainly a familiar face and easily one of the most enjoyed and valued graduates of UNC's residency program in a very long time. Since his arrival to Chapel Hill from Davidson College in 1997, Dr. Allen Marshall has been groomed for his position within the UNC ENT family. His incredible work ethic and hard-to-resist personality has always been a perfect match for the UNC program, and his potential value to the program as an attending was identified early on by the WakeMed program. Fortunately, Allen's ties to the area include his mother and brother, who is an anesthesiologist at WakeMed, so recruiting him to join the WakeMed practice was a slightly easy sell. Allen will join forces with Dr. Bloedon to make their mark as the new kids on the block in our Knightdale practice, and he will bring with him the exact skill set that all UNC graduates leave with, a complete tool kit of clinical competency, that will make him an instant success at WakeMed. Of course it must be noted that Allen's clinical success is dwarfed by his personal successes, outkicking his coverage by marrying his sweetheart since their first week of college, Clair. Joining them in the move to Raleigh are their son Hutch and their yet-to-be-born second son, who will be arriving about this summer.

WakeMed is proud of its contributions to the UNC residency program and looks forward to the next era of clinical medicine and resident education.

More Appointments & Other News!

As stated on page 2, **Dr. Carlos Ebert** and **Dr. Allen Marshall** joined the faculty this summer. In addition to these appointments, we have several others to announce:

Trevor G. Hackman, MD, our new Head and Neck Oncologist, began his appointment as Assistant Professor on August 1st. He earned his MD and completed residency training in Otolaryngology at the University of Pittsburgh. He then went on to complete a one-year fellowship at Washington University, where he trained in Transoral Laser Microsurgery, Facial Plastics & Microvascular Reconstruction, and Head & Neck Oncologic and Skull Base Surgery under Bruce Haughey, MD. In addition to those areas, Dr. Hackman is interested in endocrine surgery, parotid surgery, head and neck reconstruction, minimally invasive head and neck surgery, as well as sinus surgery. From an email he sent us in June:

My wife Kimberley and I greatly anticipate our return to North Carolina, having met during our undergraduate years at Davidson College. We bring with us our two children - daughter, Kiersten (3½), and son, Lance (2). We are also expecting our third child in October. The wife and children are already outfitted in their Tarheel gear and ready for the move. I look forward to bringing the TLM techniques I developed at Washington University to my new department.

Julia S. Kimbell, PhD, began her appointment as Associate Professor on June 1st. She earned her PhD in differential geometry from Duke University, followed by a post-doctoral fellowship at The Hamner Institutes for Health Sciences (formerly the Chemical Industry Institute of Toxicology). Before joining our Department, she had been working as a Senior Investigator at CIIT at The Hamner, located in Research Triangle Park, North Carolina. An applied mathematician, Dr. Kimbell specializes in biomathematical modeling. Biomathematics is the application of mathematics to biology and medicine, and Dr. Kimbell's 3D models of the nose and nasal passages are considered state of the art in nasal modeling. Her research involves the effects of nasal anatomy and respiratory airflow patterns on the uptake and deposition of inhaled gases and particles in the nasal passages of rodents, primates, and humans.

D. Neil Hayes, MD, MPH, of the Department of Medicine, Division of Hematology/Oncology, was awarded a joint appointment with the Department of Otolaryngology/Head and Neck Surgery as Assistant Professor on June 1st. Dr. Hayes has collaborated with our head and neck oncologists for many years on

research projects and patient care. The Hayes Lab endeavors to bring together a collection of researchers with intersecting interests in multidisciplinary clinical cancer care, clinical trials, translational cancer research, and model systems of cancer with a focus on aerodigestive tumors.

Laura Rosenthal, MD, was selected as our first Fellow in Pediatric Otolaryngology, beginning on July 1st. She earned her MD from the University of Illinois in her hometown of Chicago, and recently completed residency training in Otolaryngology/Head and Neck Surgery at the Henry Ford Hospital in Detroit. She is interested in all aspects of pediatric otolaryngology, but has particular interests in the management of patients with craniofacial anomalies, such as cleft lip and palate. Given her undergraduate background in bioengineering and bioethics, Dr. Rosenthal is also interested in the relationship between physicians and industry and the unique ethical issues faced when taking care of children. She is especially excited about joining the UNC team and moving to North Carolina, where she can play golf nearly all year round. She is also interested in skiing, biking, camping, and travel.

Austin S. Rose, MD, and **Carlton J. Zdanski, MD**, have recently been elected members of the American Society of Pediatric Otolaryngology. Selection for membership is based on three years of experience in Pediatric Otolaryngology, letters of support, and submission of an operative case log, which is extensively reviewed. ASPO's mission is to foster excellence in the care of children with otorhinolaryngologic disorders and thereby enhance the distinction of pediatric otorhinolaryngology as a profession. In addition to this honor, Drs. Rose and Zdanski have received joint appointments with the UNC Department of Pediatrics.

In keeping with the Department's strong commitment to education, the annual meeting of the **Newton D. Fischer Society** was held on June 6, 2009, at the Paul J. Rizzo Conference Center. In addition to a number of presentations by our own faculty and residents, the Department welcomed keynote speaker Jesús E. Medina, MD, of the University of Oklahoma Health Sciences Center, and guest speakers Robert F. Labadie, MD, of Vanderbilt University, P. Chase Lay, MD, of Southern Illinois University, and J. Madison Clark, MD, of Alamance Ears, Nose & Throat. Dr. Austin Rose was the Course Director again this year. The meeting concluded with a banquet honoring the graduating chief residents.



Dr. Hackman



Dr. Kimbell



Dr. Hayes



Dr. Rosenthal at an orphanage in Cambodia

Questions, comments, or suggestions about Heads Up? Contact Elizabeth Perry, eaperry@med.unc.edu, or 919-260-9002.

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The Department of Otolaryngology/Head and Neck Surgery is proud of its skilled faculty and staff who are committed to providing patients with the highest quality health care. Get to know us!

The Department of Otolaryngology/Head and Neck Surgery

Harold C. Pillsbury, MD, FACS, Chair, Thomas J. Dark Distinguished Professor of Otolaryngology/Head and Neck Surgery
Craig A. Buchman, MD, FACS, Vice Chair for Clinical Affairs
Brent A. Senior, MD, FACS, Vice Chair for Academic Affairs
Carolyn Hamby, Clinical Academic Departmental Administrator

The Division of Head and Neck Oncology, Cancer Research

Mark C. Weissler, MD, FACS, Professor and Chief, Joseph P. Riddle Distinguished Professor of Otolaryngology/Head and Neck Surgery
William W. Shockley, MD, FACS, Professor
Marion E. Couch, MD, PhD, FACS, Associate Professor
Xiaoying Yin, MD, Assistant Professor
Adam M. Zanation, MD, Assistant Professor
Trevor G. Hackman, MD, Assistant Professor
Andrew F. Olshan, PhD, Professor
D. Neil Hayes, MD, MPH, Assistant Professor
Brian K. Kanapkey, Speech Pathologist

The Division of Pediatric Otolaryngology

Amelia F. Drake, MD, FACS, Professor and Chief, Newton D. Fischer Distinguished Professor of Otolaryngology/Head and Neck Surgery
Carlton J. Zdanski, MD, FACS, Associate Professor
Austin S. Rose, MD, Assistant Professor
Laura Rosenthal, MD, Pediatric Otolaryngology Fellow

The Division of Otolaryngology/Neurotology and Skull Base Surgery

Craig A. Buchman, MD, FACS, Professor and Chief
Harold C. Pillsbury, MD, FACS, Professor
Oliver F. Adunka, MD, Assistant Professor

The Division of Facial Plastic and Reconstructive Surgery

William W. Shockley, MD, FACS, Professor and Chief, W. Paul Biggers Distinguished Professor of Otolaryngology/Head and Neck Surgery

The Division of Voice and Swallowing Disorders/UNC Voice Center

Robert A. Buckmire, MD, Associate Professor and Chief
Mark C. Weissler, MD, FACS, Professor
Ellen S. Markus, MA, CCC-SLP, DMA, Coordinator
Linda F. Hube, MS, CCC-SLP, Speech Pathologist

The Division of Rhinology, Allergy, Sinus Surgery

Brent A. Senior, MD, FACS, Professor and Chief
Adam M. Zanation, MD, Assistant Professor
Charles S. Ebert, MD, MPH, Assistant Professor
Julia S. Kimbell, PhD, Associate Professor

Sleep and Snoring Surgery

Brent A. Senior, MD, FACS, Professor
Marion E. Couch, MD, PhD, Associate Professor

The Division of Auditory Research

Joseph W. Hall, PhD, Professor and Chief
Jiri Prazma, MD, PhD, Professor
Paul B. Manis, PhD, Professor
John H. Grose, PhD, Professor
Emily Buss, PhD, Associate Professor
Charles C. Finley, PhD, Associate Professor
Douglas C. Fitzpatrick, PhD, Assistant Professor
Patricia A. Roush, AuD, Assistant Professor, Director, Pediatric Audiology

The Division of Research Training and Education

Paul B. Manis, PhD, Professor and Chief

The Adult Cochlear Implant Program

Marcia Clark Adunka, AuD, CCC-A, Director
English King, AuD, CCC-A, Audiologist

W. Paul Biggers Carolina Children's Communicative Disorders Program

Craig A. Buchman, MD, FACS, Professor, Admin. Director
Harold C. Pillsbury, MD, FACS, Professor, Executive Director
Carlton J. Zdanski, MD, FACS, Associate Professor
Oliver F. Adunka, MD, Assistant Professor
Holly Teagle, AuD, Assistant Professor, Program Director

WakeMed Faculty Physicians

Michael O. Ferguson, MD, Associate Professor and Chief
Carol G. Shores, MD, PhD, FACS, Associate Professor
Brett E. Dorfman, MD, Assistant Professor
Raymond D. Cook, MD, Assistant Professor
Esa A. Bloedon, MD, Assistant Professor
Allen F. Marshall, MD, Assistant Professor

Residents:

Gregory J. Basura, MD, PhD
Keith M. Ladner, MD
Alisha N. West, MD
Trinitia Y. Cannon, MD

Mitchell R. Gore, MD, PhD
Paula J. Harmon, MD
Michael E. Stadler, MD
Deidra A. Blanks, MD

Rupali N. Shah, MD
Joshua B. Surowitz, MD
Maher N. Younes, MD
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