Division Photo


Division Data Summary

Research and Training Details

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<tr>
<td>Number of Faculty</td>
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<td>Peer Reviewed Publications</td>
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Clinical Activities and Training

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<td>Number of Clinical Fellows</td>
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Faculty Members

Robin T. Cotton, MD,  Professor; Director, Department of Pediatric Otolaryngology; Director, Aerodigestive and Sleep Center

Ellis M. Arjmand, MD, PhD,  Associate Professor; Director, Ear and Hearing Center

David K. Brown, PhD,  Assistant Professor; Director, Audiological Research Lab

Daniel I. Choo, MD,  Associate Professor

Ravindhra G. Elluru, MD, PhD,  Assistant Professor; Director, Voice Clinic

John. H. Greinwald Jr., MD,  Associate Professor
Charles M. Myer III, MD, Professor; Director, Pediatric Otolaryngology Residency Program
Michael J. Rutter, MD, Associate Professor
Sally R. Shott, MD, Professor
Dana M. Thompson, MD, Associate Professor
J. Paul Willging, MD, Professor; Director, Pediatric Otolaryngology Fellowship Program

Joint Appointment Faculty Members

Jareen Meinzen-Derr, MPH, PhD, Assistant Professor
  Biostatistics & Epidemiology
  Epidemiology

Trainees
- Alessandro deAlarcon, MD, PGY-VII, Virginia Commonwealth University School of Medicine
- Gresham Richter, MD, PGY-VII, University of Colorado-Health Sciences Center
- Chad Afman, MD, PGY-VI, Wayne State School of Medicine
- Matthew Bromwich, MD, FRCS(c), PGY-VI, Queen's University School of Medicine (Kingston, Canada)
- J. Matthew Dickson, MD, FRCS(c), PGY-VI, University of British Columbia (Vancouver, Canada)
- Christopher Wootten, MD, PGY-VI, Baylor College of Medicine

Significant Accomplishments in FY08

Microarray Diagnostic Gene Chip
The diagnosis of hearing loss is problematic. By the time a hearing loss is suspected, a child can already have significant language delays. Current paradigms for detecting the etiology of hearing loss can be expensive and don't screen for most of the genetic causes of hearing loss. Dr. John H. Greinwald, Jr and his research lab are currently working to drastically change the face of hearing loss diagnosis. Dr. Greinwald is currently developing a microarray diagnostic gene chip that will identify the known genetic causes of hearing loss from a single blood sample. Coupled with state-wide mandatory newborn hearing screenings, this chip will allow for the detection of the etiology in infants with hearing loss. This will allow physicians and healthcare providers to develop treatments and therapies prospectively thus narrowing or eliminating the developmental gap between diagnosis and treatment that currently exists. This project is currently finishing the validation stage.

Intratympanic Delivery of Antivirals
Congenital sensorineural hearing loss is the most common neurological birth defect in the U.S. and congenital CMV is one of the most common causes of congenital SNHL. Unfortunately, the systemic administration of the most effective antiviral agents can cause a range of problems, including Hematopoetic and renal toxicity as well as possible carcinogenic and aspermatogenic effects. There is a clear clinical demand for safe and effective treatments for CMV-related hearing loss. Dr. Daniel Choo is currently working on a NIH funded project looking at safe, efficacious delivery of antiviral agents directly to the middle ear space thus avoiding the problems caused by systemic administration of these same antiviral agents.

Tracheal Cartilage
Many congenital airway anomalies arise from problems with the development of the cartilage that comprises the airway. Dr. Ravi G. Elluru is currently undertaking a study whereby he is looking to characterize the molecular mechanisms that pattern the development of the cartilaginous airway. Specifically, he is looking at the role of Sox9 in the development and proliferation of cartilage that forms the tracheal rings. A large portion of the patients seen by the Otolaryngology division are those children who require surgical intervention for their airway anomalies. Dr. Elluru hopes to gain insight into the treatment of these anomalies possibly through the use of genetic engineering. Another outcome of his work in this area may be the ability to predict the outcome of certain patients with a particular type of airway anomaly based of his or her genetic markers.

Significant Publications in FY08

Richter GT, Willging JP. Suction cautery and electrosurgical risks in otolaryngology. Int J Pediatr...
After a series of burns in the OR, the authors worked with the device manufacturer to define the problem and helped facilitate industry changes (which are coming this year) to minimize the potential for causing burns in the future.

Division Highlights

Ellis M. Arjmand, MD, PhD, MMM
2007 Certificate of Honor American Academy of Otolaryngology - Head and Neck Surgery

Ellis M. Arjmand, MD, PhD, MMM
Chair, Search Committee for Communication Sciences Research Center

Ellis M. Arjmand, MD, PhD, MMM
Chair, American Society of Pediatric Otolaryngology Committee on Health Policy and Economics

Daniel I. Choo, MD
Chosen as member Special Emphasis Study Section for the NIDCD

Ravindhra G. Elluru, MD, PhD
Awarded 3rd place for the Potsic Award at the American Society of Pediatric Otolaryngology and was awarded a 3rd place poster award at the Medical Student Summer Research Program

Charles M. Myer, III, MD
Selected by Consumer’s Research Council of America as a member of the “Guide to America’s Top Physicians”

J. Paul Willging, MD
Awarded the 2007 Distinguished Service Award "For Exceptional Services in the Scientific Programs, Exhibits, Continuing Education Courses and Instructional Courses of this Society" at the American Academy of Otolaryngology-Head and Neck Surgery Foundation

Division Collaboration

Collaboration with Radiology
Collaborating Faculty: Scott Holland
fMRI in Patients with Cochlear Implants

Division Publications


Grants, Contracts, and Industry Agreements

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<td>A Preclinical Trial of Intratympanic Antivirals for CMV</td>
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