Division Details

Division Data Summary

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<th>Research and Training Details</th>
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<tr>
<td>Number of Faculty</td>
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<td>Number of Joint Appointment Faculty</td>
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<td>Number of Research Fellows</td>
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<td>Direct Annual Grant Support</td>
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<th>Clinical Activities and Training</th>
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<td>Number of Clinical Staff</td>
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<td>Number of Clinical Fellows</td>
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<td>Number of Other Students</td>
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<td>Outpatient Encounters</td>
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Significant Accomplishments

Choo Becomes Division Director

After more than 37 years in the role, Robin Cotton, MD, stepped down as Division Director in 2012. Cotton built the Division into the world’s premier center for diagnosing and treating airway abnormalities. The Division has grown into one of the nation’s busiest otolaryngology practices, with more than 33,000 outpatient visits and more than 11,000 procedures performed a year. After an exhaustive national search, Daniel Choo, MD, was named Cotton’s successor in October 2012.

Cotton Receives William Cooper Procter Medallion

In February 2013, Robin Cotton, MD, became only the ninth scientist since 1960 to be awarded the William Cooper Procter Medallion, the highest award bestowed by the Cincinnati Children’s Board of Trustees. Tom Cody, chairman of the board, called Cotton “a remarkable innovator, surgeon, educator and leader...”

Breakthrough Study in Usher Syndrome

Saima Riazuddin, PhD, and colleagues published a study entitled "Alterations of the CIB2 calcium- and integrin-binding protein, cause Usher syndrome type 1J and nonsyndromic deafness DFNB48" in Nature Genetics. This breakthrough work also was featured in the Editor’s Choice of Science Journal.
**Significant Publications**


Several genes associated with different types of Usher syndrome have been identified. Most of these genes encode common structural and motor proteins that build sensory cells in the eye and inner ear. However, the gene reported in our paper, CIB2, which encodes a calcium and integrin binding protein, is believed to play a functional role in mechanoelectrical transduction, the process of converting sound energy into an electrical signal that the brain recognized as sound.

Our studies suggest that CIB2 might be important in maintaining calcium level in the sensory cells. Given that there are many cardiac ischemia and hypertension drugs that work by affecting calcium handling in the muscle cells, it is possible that one day a similar drug may be used to target a type of Usher syndrome that we described in our study.

**Division Publications**


Faculty, Staff, and Trainees

Faculty Members

Daniel I. Choo, MD, Associate Professor
  Leadership Director, Department of Pediatric Otolaryngology

Robin T. Cotton, MD, Professor
  Leadership Director, Aerodigestive and Sleep Center

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

Alessandro deAlarcon, MD, Associate Professor
  Leadership Director, Voice Clinic

Ravindhra G. Elluru, MD, PhD, Associate Professor

John. H. Greinwald Jr., MD, Associate Professor

Catherine Hart, MD, Assistant Professor

Kaalan Johnson, MD, Assistant Professor
  Leadership Director, Otolaryngology Simulation Program

Charles M. Myer Ill, MD, Professor
  Leadership Director, Pediatric Otolaryngology Residency Program

Saima Riazuddin, PhD, Assistant Professor
  Leadership Director, Laboratory of Molecular Genetics

Michael J. Rutter, MD, Associate Professor

Sally R. Shott, MD, Professor

J. Paul Willging, MD, Professor
  Leadership Director, Pediatric Otolaryngology Fellowship Program

Joint Appointment Faculty Members

Zubair Ahmed, PhD, Assistant Professor (Ophthalmology)
  Research Interests Genetics

Dimitar Deliyski, PhD, Associate Professor (Communication Science Research Center)
  Research Interests Communication Disorders

Scott Holland, PhD, Professor (Neuroimaging Research Consortium)
  Research Interests Neuroimaging
Jareen Meinzen-Derr, MPH, PhD, Assistant Professor (Biostatistics & Epidemiology)

Research Interests Epidemiology

Clinical Staff Members

Michael Bowen, PA-C, RN, MA,
   Adult Airway

Trainees

Angela Black, MD, PGYVII, University of Minnesota
Charles Myer, IV, MD, PGYVII, University of Cincinnati College of Medicine
Michel Nassar, MD, PGYII, Hotel dieu de France
Matthew Provenzano, MD, PGYVII, University of Iowa
Karthik Balakrishnan, MD, MPH, PGYVI, University of Washington at Seattle
Douglas Sidell, MD, PGYVI, UCLA

Division Collaboration

Genetics; Speech Pathology » Ann Kummer
   VPI (Velopharyngeal Insufficiency) Clinic-Monitoring associated diagnoses and treatment outcomes.

Speech Pathology »
   FEES (Flexible Endoscopic Evaluation of Swallowing) Clinic-Evaluating swallowing disorders, etiology, treatment strategies and outcomes.

Speech Pathology; Occupational Therapy; Dieticians; Genetics; Gastroenterology; Social Work; Nursing »
   Interdisciplinary Feeding Team – Evaluating safety of swallowing and treatment strategies for children with complex dysphagia problems.

Speech Pathology »

Pediatric Surgery; Dermatology; Plastic Surgery; Oncology » Denise Adams and Richard Azizkhan
   Vascular Malformation clinic –Determining treatment outcomes for complex vascular malformations.

Audiology; Speech Pathology; Developmental Pediatrics »
   Cochlear Implant Team – Determine candidacy of patients for implantation, following outcomes of speech and language and hearing abilities.

Gastroenterology; Pulmonary; Occupational Therapy; Feeding Team; Speech Pathology; Voice Team; Pediatric Surgery »
   ADSC-Coordinated care of patients with complex conditions requiring multiple service involvement.

Anesthesia; Emergency Department »
   Surgical Simulation-Providing training and simulation/situational awareness using state of the art simulation models.

Neonatology » Jim Greenberg and Laurel Bookman
   Collaborative quality improvement project to standardize the diagnosis and treatment of neonates with tongue-based airway obstruction.
Upper Airway Center-Provides care coordination for patients suffering from upper airway abnormalities requiring intervention from multiple services.

**Grants, Contracts, and Industry Agreements**

**Grant and Contract Awards**

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**RIAZUDDIN, S**

1. **Functional Analyses of Tricellular Tight Junctions in Hearing and Deafness**
   - National Institutes of Health
   - R01 DC 011748
   - 07/01/11-06/30/16
   - $250,000

2. **Identifying Genes for Non-Syndromic Recessive Deafness - A Collaborative Study**
   - National Institutes of Health
   - R01 DC 011803
   - 04/15/12-03/31/17
   - $201,875

3. **The Regulation and Cellular Activities of the Arl2 GTPase**
   - National Institutes of Health (Emory University School of Public Health)
   - R01 GM 090158
   - 08/01/12-07/31/14
   - $56,250

4. **Understanding Suppression of Deafness Due to a Dominant Modifier Gene**
   - Royal Natl Institute for Deaf People
   - 12/01/11-11/30/14
   - $79,795

**Current Year Direct** $587,920

**Total** $587,920