It is a privilege for me to highlight areas of excellence within the Department of Otolaryngology – Head & Neck Surgery, and our Rhinology & Sinus Surgery Division certainly qualifies for that distinction.

Rod Schlosser, MD joined our faculty in 2002 and quickly established an active clinical practice, with a referral base now encompassing the southeastern United States. As the Division grew, a dedicated, stand alone Sinus Center was created in 2006. Patient satisfaction surveys validate the Center’s success, with scores consistently above the 92nd percentile and a rank each quarter as one the top 10 MUSC clinics. With the Departments of Neurosciences, Radiology, and Radiation Oncology, an active Endoscopic Skull Base Program has now been established, offering minimally invasive surgical options for patients with extensive sinonasal neoplasms and other skull base tumors.

The Rhinology Sinus Surgery Division has developed a productive, multidisciplinary research program, focusing on both basic and translational investigations. Dr. Schlosser has obtained over 20 grants with funding exceeding $1 million. Strong collaborative efforts with the Department of Bioengineering at...
Thank You, Dr. Hoang!

Dr. and Mrs. Hoang with Dr. Lambert

On December 12, 2008, Khanh-Gien Hoang, M.D., Ph.D., retired after 20 years on faculty at MUSC. In the commentary on his career with the department, Dr. Lambert noted, “competence, dependability, professionalism, and humility characterized his tenure.” Dr. Hoang was an exceptional role model for the more than 70 residents and fellows he helped train, especially in the area of endocrine surgery.

Thank you, Dr. Hoang, for being a pillar of excellence!

Paul R. Lambert, M.D.
Professor and Chair, Otolaryngology Head & Neck Surgery

Dr. and Mrs. Hoang with Dr. Lambert

Showing off his expertise with a knife!

Well-wishers at Dr. Hoang’s Farewell Drop-in

Clemson University and with the Department of Microbiology and Immunology at MUSC have been forged. Areas of active research include the immune responses in chronic rhinosinusitis and allergic disease, and novel, targeted drug delivery systems; several patents are pending. The Department is especially pleased to welcome Jennifer Mulligan, PhD, a post-doctoral scholar who recently joined the Schlosser laboratory. Success on the research level is perhaps best reflected by the 50+ national presentations by residents, fellows, and faculty over the last 5 years.

Education is the third leg of the “academic stool.” Fifteen sinus courses, with over 300 international participants, have been held to date in our Multidisciplinary Teaching Laboratory. At any one time, multiple residents are either involved with Dr. Schlosser on clinical projects or engaged in his laboratory during their research block. This past year, both our 1st and 2nd place winners in the Resident Research Forum presented rhinologic topics. A Fellowship program was started in 2006. Graduates have gained academic positions at Emory; Sydney, Australia; Cork, Ireland; and Washington University, St. Louis. Incoming clinical and research fellows are from the University of Pennsylvania, Taiwan, and Adelie, Australia.

One of the pleasures of being a chair is the vicarious gratification that follows the successes of one's faculty and divisions. I speak for all our faculty in congratulating Rod Schlosser for his development of one of the premiere Rhinology & Sinus Surgery divisions in the country.

Paul R. Lambert, M.D.
Professor and Chair, Otolaryngology Head & Neck Surgery

RHINOLOGY & SINUS SURGERY DIVISION

Rodney J. Schlosser, MD
Director
J. David Osguthorpe, MD
Mark J. Hoy, MD
Jennifer Mulligan, PhD
Sarah Koepp, PA-C
Warren McCormick (Research Technician)
Ryan Mulligan (Research Technician)
Drs. Ted Meyer and Paul Lambert held the inaugural Fall MUSC Temporal Bone Dissection Course October 17-18, 2008. Barry Strasnick, MD, Chairman, Department of Otolaryngology at Eastern Virginia Medical School in Norfolk, Virginia was the invited speaker.

The 4th Annual MUSC Winter Temporal Bone Course took place Feb 27-28, 2009. Edward Dodson, MD, from the Department of Otolaryngology at The Ohio State University in Columbus, Ohio was the invited speaker. We had participants from seven different states, from Maine to Florida.

Lectures on techniques of tympanoplasty and mastoidectomy, avoiding complications during these surgeries, and management of patients with vestibular disorders complimented the time spent in the temporal bone laboratory refining surgical techniques.

2008 Putney Lectureship

The 23rd Annual F. Johnson Putney Lecture was held on November 7 - 8, 2008. The seminar focused on HPV and Head and Neck Cancer and featured guest lecturer Wayne M. Koch, MD, professor of Otolaryngology and Oncology at Johns Hopkins University. Dr. Boyd Gillespie gave a lecture on Cytokine profile of HPV-related HNSCC. Other lecture topics included HIV/AIDS-related Oral Cancer Pathogenesis, The Oral Cavity Microbial Environment of Patients with Oral Squamous Cell Carcinoma, and An Endogenous Superantigen in HPV Associated Oropharyngeal Squamous Cell Carcinoma.

We invite you to join us for the 24th Annual Putney Lecture to be held November 13 - 14, 2009, in conjunction with the Second Annual Salivary Gland Endoscopy and Ultrasonography Course. Lectures, discussions, and hands-on workshops will focus on Current Management of Salivary Malignancy. Our guest lecturer will be David W. Eisele, MD, Professor & Chair, Department of Otolaryngology – Head & Neck Surgery, University of California, San Francisco.
The major salivary glands produce up to one quart of a critical fluid called saliva each day. Saliva helps to digest certain foods, lubricates the mouth for speech and swallowing, and provides protection to the teeth against bacteria. Obstruction or blockage of the salivary glands is a relatively common disorder that affects up to 2% of the population. Salivary gland obstruction results in pain and swelling in the cheek or under the jawline while eating, and foul-tasting drainage into the mouth (chronic sialadenitis). Salivary obstruction can also lead to severe infection with high fevers, severe pain, and neck abscess.

Salivary gland blockage can result from multiple causes including salivary stones, scar tissue, allergic disorders, dehydration, side-effects of certain medications, autoimmune diseases, and tumors. Patients undergoing radioiodine treatment for thyroid cancer are especially prone to salivary gland obstruction due to concentration of radioiodine within the gland parenchyma. The most common cause of salivary obstruction is salivary stones (sialoliths) (Figure 1). Approximately 90% of stones occur in the submandibular glands, and 10% in the parotid glands. The stones are thought to form from mucous sludge which becomes mineralized with deposits of calcium hydroxylapatite. Although plain film radiography or computed tomography may be helpful, up to 60% of stones are radiolucent or too small to be seen by these radiographic modalities.

The procedure is performed under local anesthesia or light general anesthesia, thereby allowing the patient to go home immediately following the procedure.

Ultrasoundography is a promising office-based methodology that can identify small stones and dilated salivary ducts not observed with conventional radiography. Traditional treatment of salivary gland obstruction has focused on methods to increase the flow of saliva such as drinking more water, sucking on sour candies or lemons, applying warm compresses, and massaging the swollen gland. If these

Debra Brown was enjoying an active life as CEO of a marketing consulting firm two years ago when she began to experience chronic swelling and pain of the left parotid gland. Initially she experienced symptoms only at mealtimes, but soon thereafter the swelling and pain began to occur throughout the day. Often her gland would drain thick, foul-tasting purulent material into her mouth. Mrs. Brown was diagnosed with chronic parotitis by her local physicians who began an aggressive treatment regimen of antibiotics, steroids, hydration, sialogogues, and gland massage which only provided temporary relief. Imaging studies were negative for stones. She eventually underwent a partial parotidectomy, but this only aggravated her symptoms. “I was desperate for relief, and willing to travel anywhere to find a specialist who could help me.” After consultations at two of the best known tertiary hospitals in the country, Mrs. Brown became discouraged. “I was told over and over again to do the same things- drink water, use lemon drops, and massage my gland. I felt that I needed something more because this strategy wasn’t working.”

A friend of Mrs. Brown’s who had been treated at MUSC suggested that she go to Charleston for a consultation. Mrs. Brown states that by the time she saw Dr. Gillespie for the first time, “the pain had progressed to the point that it was affecting my work, my social life, and my sleep.” Dr. Gillespie performed an extensive history and physical examination with testing to rule-out potential causes of parotid obstruction including stones, tumors, auto-immune diseases, and allergic disorders. Every test came back normal except an MRI scan which showed persistent enhancement and inflammation in the remaining gland tissue. Dr. Gillespie performed salivary endoscopy which demonstrated diffuse edema and erythema throughout the parotid ductal system but failed to show an offending stone or stricture. Dr. Gillespie irrigated the parotid ducts with a steroid solution in the hope of reducing the ongoing inflammation. The procedure resulted in reprieve of the intense pain for a couple of months.

Unfortunately, the reprieve was temporary, and when her
symptoms returned. Mrs. Brown says, “I was ready to do anything, even major surgery to get my life back.” In May 2008, Mrs. Brown underwent a total parotidectomy to remove the remaining parotid tissue and fascial free flap reconstruction to contour the wound defect by Drs. Gillespie and Hornig at MUSC. Mrs. Brown recollects, “When I awoke from surgery I had some pain from my incisions, but no longer felt the deep gnawing pain that I had suffered from for two years.” The pathological examination confirmed sialadenitis, but Dr. Gillespie believes further research is needed to determine the exact cause of chronic gland inflammation in patients like Mrs. Brown. Mrs. Brown has returned to running her company, and back enjoying her hobby carving duck decoys. Mrs. Brown plans to start a website and blog to reach out to other people who suffer from salivary gland obstruction.

The MUSC Department of Otolaryngology-Head & Neck Surgery currently offers the latest minimally-invasive procedure for the diagnosis and treatment of salivary gland obstruction. Sialendoscopy is a technique that has been developed and successfully applied in Europe over the last decade, but has only recently been introduced in the United States. The technique uses semi-rigid, ultra-thin scopes that are inserted into the gland’s natural opening in the mouth in order to visualize the cause of the obstruction. Using specially designed micro-instruments, stones and scar tissue can be removed in order to relieve the blockage. The scope can also cleanse the glands with an irrigation of saline solution and steroids. The procedure is performed under local anesthesia or light general anesthesia, thereby allowing the patient to go home immediately following the procedure. M. Boyd Gillespie, M.D., brought this new procedure to Charleston after receiving training in Germany from the developers of the technology. Dr. Gillespie has trained other American surgeons in the technique and was guest professor along with Dr. Joshua Hornig at the international training course in Germany in February 2009.

The MUSC Department of Otolaryngology-Head & Neck Surgery hosted the first Charleston Salivary Ultrasonography and Endoscopy Course on October 10-11, 2008. The course was the first of its kind held in the southeastern United States. Early developers of sialendoscopy, Drs. Heinrich Iro and Johannes Zenk of the University of Erlangen-Nürnberg, joined course director M. Boyd Gillespie in presenting this new procedure to American practitioners. Sixteen participants from 9 states, Puerto Rico, and Canada enjoyed an interactive course of informative lectures, live patient demonstrations, and ultrasonography and cadaver endoscopy laboratory (Figure 2 A&B). The Second Charleston Salivary Ultrasonography and Endoscopy Course will be held in November 13 - 14, 2009. The course will feature international experts in salivary gland tumors and disorders and will provide hands-on training to participants.
E ach year approximately 10 million Americans are evaluated for swallowing difficulties, and between 300,000 and 600,000 individuals are diagnosed with a swallowing disorder (dysphagia). Swallowing is one of the most complex processes in the human body, and many health disorders can produce dysphagia. To garner data and federal funding to study effective treatments for those suffering from dysphagia, Bonnie Martin-Harris, Ph.D., founder and director of the Evelyn Trammell Institute for Voice and Swallowing, and professor in the Department of Otolaryngology at the Medical University of South Carolina (MUSC), led a team of researchers to create the first standardized tool to measure swallowing impairment.

“MBS Measurement Tool for Swallowing Impairment—MBSImP: Establishing a Standard” appeared in the December 2008 print issue of Dysphagia. An abstract of the article can be found by visiting: http://www.springerlink.com/content/8611836rxj16017j/.

A swallowing disorder typically is a combination of physiologic impairments that occurs during eating and drinking. It can impact a person’s quality of life and lead to serious and sometimes fatal medical conditions including malnutrition, dehydration and aspiration pneumonia. Through the creation of the Modified Barium Swallowing Impairment Profile (MBSImP), Martin-Harris provides a tool that will allow health care providers in clinical practice and clinical research to optimize the safety, accuracy and appropriateness of evaluation methods used in patients with dysphagia.

“The development of the MBSImP is the first known study that demonstrates the clinical utility and validity of measuring swallowing function in a large group of patients across medical diagnoses,” Martin-Harris said. “The MBSImP has the potential for widespread clinical and research application.”

There is limited data on the incidence and prevalence of swallowing disorders in the United States, Europe and Asia, primarily because dysphagia is a condition, and not a reportable disease. Despite this classification, dysphagia can result from common diseases and disorders. Patients may experience swallowing impairment due to symptoms stemming from medical issues relating to cancer; stroke; traumatic brain injury, Huntington’s Disease, Multiple Sclerosis, Parkinson’s Disease, ALS and Cerebral Palsy, among others.

The modified barium swallowing (MBS) exam has been the instrument of choice for assessing swallowing disorders and determining the course of treatment. Performed in conjunction with a radiologist, the MBS exam can identify swallowing impairment relating to oral tongue and combined pharyngeal clearance and airway protection. It is relatively non-invasive and well-tolerated by most patients. Until now, there has been no universally accepted, valid, reliable, and clinically practical method for capturing the impairment and comparing the results of modified barium swallowing studies (MBS) between clinics and research laboratories.

Dr. Martin-Harris and her team are developing web-based MBSImP training modules for global access by practicing clinicians. The tool will permit creation of a national data registry for swallowing disorders across patient populations.
Terry A. Day, M.D.
- Board of Directors of AAOHNS
- Head and Neck Steering Committee of NCI
- Appointed senior examiner for the American Board of Otolaryngology

Judy R. Dubno, Ph.D.
- Invited Speaker, Second International Course/Workshop on Advances in Audiology, University of Salamanca, Spain
- NIH Director’s Pioneer Awards, Member of Reviewer Panel
- House Ear Institute, Chair, Science Advisory Council

Mark A. Eckert, Ph.D.
- 2008 MUSC Developing Scholar Award

M. Boyd Gillespie, M.D.
- M. Boyd Gillespie, M.D., was one of three applicants selected to receive a grant from the American Academy of Otolaryngology- Head & Neck Surgery to attend the 2009 Cochrane Colloquium in Singapore. The Cochrane Collaboration, established in 1992, oversees the Cochrane Database of Systematic Reviews which has provided critical assistance to healthcare professionals, patients, and third-party payors who seek to make evidence-informed decisions about healthcare.
- 2008 American Academy of Otolaryngology - Head & Neck Surgery Honor Award Recipient
- Guest Professor, Erlangen Salivary Surgery Course, Erlangen Germany

Paul R. Lambert, M.D.
- Invited Lectureship: 9th Annual Erlangen Otologic Surgery Course; Erlangen, Germany
- Invited Lectureship: Saunders’s Lecturer at Ohio State University
- Invited Lectureship: Mississippi Society of Otolaryngology-Head & Neck Surgery

Rodney J. Schlosser, M. D.

Honors

Jean Mathews Denham received the award from Dr. Terry Day for her outstanding performance in surgery scheduling.

Grants

Bonnie Martin-Harris, Ph.D.
Pl, Bracco Diagnostics, Inc. National Database for the Modified Barium Swallowing Impairment Profile (MBSImP); $88,444, Jan-Dec 2009.
Director, Bracco Diagnostics, Inc. Educational Grant; $41,015, Jan-Dec 2009.

Judy R. Dubno, Ph.D.
Program Director; JR Dubno, MA Eckert, H Lang, Principal Investigators; NIH/ NIDCD, P50 DC00422, “Experimental and Clinical Studies of Presbycusis”, $9,478,098, 2008-13.

M. Boyd Gillespie, M.D.
Pl, Multi-dimensional profiling of HPV-related head and neck cancer in black and white subjects. SECTR Exploratory Grant, $50,000, 2008-09.

Paul R. Lambert, M.D.
Pl, ICON Research Grant. Randomized, double-blind, placebo-controlled trial for subjective tinnitus.

Rodney J. Schlosser, M. D.
Pl, Flight Attendant Medical Research Institute, Clinical Innovator Award, “Effects of second-hand smoke on sinonasal immunity”, $325,500, 2006-09.
Co-Pl, Flight Attendant Medical Research Institute, Clinical Innovator Award, “Second-hand smoke exacerbates allergic rhinitis”, $325,500, 2008-11.

M. Rita Young, Ph.D.
Pl, Public Health Service, Bethesda, Maryland. Macrophage-driven progression of premalignant oral lesions toward invasiveness, $1,000,000, 2008-12
Pl, Public Health Service, Bethesda, Maryland. Immunotherapy to prevent oral premalignant lesion recurrence and oral cancer, $1,000,000, 2009-13.


Faculty

Otolaryngology - Head & Neck Surgery

**Otology & Neurotology**

Paul R. Lambert, M.D.
Professor and Chairman
M.D.: Duke University
Residency: UCLA Medical Center
Fellowship: House Ear Institute, Los Angeles

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Ph.D.: University of Illinois
Residency: Indiana University
Fellowship: University of Iowa

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Fellowship: University of Minnesota / Pediatric ENT Associates

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Fellowship: University of Pennsylvania

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M.D.: University of Utah
Residency: UCLA Medical Center
Fellowship: University of Zurich

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MPAS: Medical University of South Carolina

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Director; General Otolaryngology & Allergy
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MSPAS: Medical University of South Carolina

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Family Nurse Practitioner
FNP: University of South Carolina

**Head & Neck Oncology**

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M.D.: University of Oklahoma
Residency: LSU-Shreveport
Fellowship: University of California, Davis

Mary Beth Chalk, MSN, RN, APRN-BC
Nurse Practitioner
MSN: Medical University of South Carolina

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Fellowship: Johns Hopkins

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Residency: University of Alberta
Fellowship: Medical University of South Carolina

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Residency: University of Louisville
Fellowship: M.D. Anderson

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M.D.: Louisiana State University, New Orleans
Residency: Washington University School of Medicine, St. Louis

Mary Beth Chalk, MSN, RN, APRN-BC
Nurse Practitioner
MSN: Medical University of South Carolina

Ashley Laursen, BSN, RN
Registered Nurse, Program Coordinator
BSN: Medical University of South Carolina
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Director, Division of Maxillofacial Prosthodontics
D.M.D., Medical University of South Carolina
Residency, University of Iowa
Fellowship: M.D. Anderson; UCLA

Audiology
Kimberly A. Orr, M.A.
Director, Audiology
M.A.: Ohio State University

Abby C. Connell, MEd
Instructor
Coordinator, Cochlear Implant Program
M.Ed.: University of Georgia

Laura Droge, AuD
Instructor
AuD: Northern Illinois University

Meredith Edgerton, AuD
Instructor
AuD: University of North Carolina, Chapel Hill

Elizabeth Poth, MS
Instructor
AuD: University of North Carolina, Chapel Hill

Christine Strange, MA
Instructor
MA: SUNY Plattsburgh

Facial Plastic & Reconstructive Surgery
Krishna G. Patel, M.D., Ph.D.
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M.D./Ph.D.: Medical College of Georgia
Residency: University of North Carolina, Chapel Hill
Fellowship: University of California-Davis

Evelyn Trammell Institute for Voice and Swallowing
Bonnie Martin-Harris, Ph.D., CCC-SLP, BR-S
Professor
Director: ETIVS
M.S.: Purdue University
Ph.D.: Northwestern University

Vestibular & Balance
Jack King, Ph.D., CCC-A
Assistant Professor
M.Ed.: University of Virginia
Ph.D.: University of Miami Ear Institute

Research
Jayne B. Ahlstrom, M.S.
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M.S.: Vanderbilt University

Amy R. Horwitz, Ph.D.
Assistant Professor
Ph.D.: Syracuse University

Mark A. Eckert, Ph.D.
Assistant Professor
MUSC Hearing Research Program
Ph.D.: University of Florida

Fu-Shing Lee, Ph.D.
Assistant Professor
Ph.D.: Medical University of South Carolina

Kelly C. Harris, Ph.D.
Assistant Professor
Ph.D.: University at Buffalo

Shaun A. Nguyen, M.D., M.A.
Assistant Professor
Director, Clinical Research
MD & Residency: University College London
Fellowship: Medical University of South Carolina

M. Rita I. Young, Ph.D.
Professor
Head and Neck Research
Associate Director for Research
Ralph H. Johnson VA Medical Center
Upcoming CME Events

24th Annual
F. Johnson Putney Lecture
in conjunction with the
2nd Annual
Charleston Salivary Gland Endoscopy & Ultrasonography Course
NOVEMBER 13 - 14, 2009
Current Management of Salivary Malignancy

GUEST PROFESSOR
David W. Eisele, M.D.
Professor & Chair,
Department of Otolaryngology – Head & Neck Surgery
University of California, San Francisco

For registration or information please contact:
Ms. Ann Durgun 843.792.0719
or email: durguna@musc.edu

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GUEST LECTURERS

D. Bradley Welling, M.D., Ph.D.
Professor and Chair
Department of Otolaryngology – Head & Neck Surgery
Ohio State University
Columbus, OH

James C. Denneny, III, M.D.
Immediate Past President
American Academy
Otolaryngology - Head & Neck Surgery
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Michael G. Stewart, M.D., M.P.H.
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Weill Medical College
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Parwis Mir-Salim, M.D.
Professor and Chair
Klinikum im Friedrichschain
Berlin, Germany

Topics
Cholesteatoma • Chronic Otitis Media • Endocrine Surgery
• Endoscopic Sinus Surgery • Head and Neck Cancer
• Pediatric Airway Disorders • Meniere’s Disease

For registration or information, please contact:
Ms. Alison Padlan-Gillette 843.792.8238 or email: padlangi@musc.edu

Temporal Bone Dissection Fall Course

OCTOBER 2009
An intensive two-day otology course for the practicing otolaryngologist
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More details coming soon!
Please contact: Ms. Pamela Teachey 843.792.8376 or email: teacheyp@musc.edu