

Carlyn Atwood Norris

Residency Training

UNIVERSITY OF TEXAS SOUTHWESTERN | OTOLARYNGOLOGY - HEAD & NECK SURGERY | JULY 2018 - JUNE 2023 (EXPECTED) | DALLAS, TX

Education

M.D. | MAY 2018 | UNIVERSITY OF SOUTH CAROLINA SCHOOL OF MEDICINE-GREENVILLE | GREENVILLE, SC

B.S. | AUGUST 2008-MAY 2012 | CLEMSON UNIVERSITY | CLEMSON, SC

- Major: Bioengineering
- Concentration: Materials
- Cum Laude

Work Experience

EAR, NOSE & THROAT ASSOCIATES OF TEXAS, PA | 07/2023 – PRESENT | FRISCO, TX

CLINICAL RESEARCH FELLOWSHIP | AUGUST 2016-APRIL 2017 | MEDICAL UNIVERSITY OF SOUTH CAROLINA DEPARTMENT OF OTOLARYNGOLOGY- HEAD & NECK SURGERY | CHARLESTON, SC

- Coordinated clinical trials for the Otolaryngology Head & Neck Surgery department at a large academic institution
- Participated in original research in the fields of pediatric otolaryngology and otology
- Mentor: David R. White, MD

ANESTHESIA TECHNICIAN | JULY 2012-JULY 2013|GREENVILLE HEALTH SYSTEM | GREENVILLE, SC · Assisted Nurse Anesthetists and Anesthesiologists in patient care in the operating rooms at a Level 1 Trauma Center · Maintained anesthesia work areas and supplies in the operating rooms

- Disinfected and managed bronchoscopes and transesophageal echocardiography (TEE) probes

CAMP COUNSELOR AND ACTIVITY DEPARTMENT HEAD | SUMMERS 2009-2011| CAMP GREYSTONE | ZIRCONIA, NC

- Lived with and cared for campers
- Taught daily activities including Clogging, Karate, Fishing and Riflery
- Managed the instructors, activities and equipment in multiple activity departments

Research Experience

SUMMER RESEARCH INTERN | MAY 2014-JULY 2014 | GREENVILLE ANESTHESIOLOGY PA | GREENVILLE,

SC · Worked with the Departments of Surgery and Anesthesiology at Greenville Health System

- Performed literature reviews on the topics of Enhanced Recovery After Surgery (ERAS) and Post-Operative Nausea and Vomiting (PONV)
- Created evidence based protocols on the Enhanced Recovery After Surgery (ERAS) and Post-Op Nausea and Vomiting (PONV) initiatives to be implemented within the Greenville Health System

SENIOR BIOENGINEERING DESIGN | AUGUST 2011-MAY-2012 | CLEMSON UNIVERSITY | CLEMSON, SC

- Co-invented the AssureFit Chest Tube Stabilization Device
- Worked with physicians to solve a relevant clinical problem
- Performed verification and validation testing of device prototypes

CREATIVE INQUIRY CARDIAC MODELING | JANUARY 2011-MAY 2012 | CLEMSON UNIVERSITY | DEPT. OF BIOENGINEERING | CLEMSON, SC

- Assisted in the design and construction of an EKG machine
- Worked in MATLAB to create models of arrhythmic hearts from 3D ultrasound images
- Correlated EKG and 3D cardiac ultrasound data for future research on cardiac ablation procedures

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Abstracts Accepted for Oral Presentation

“Patterns of facial trauma in child abuse”

Carlyn M. Atwood, BS; Sharon H. Gnagi, MD; Shaun A. Nguyen, MD, David R. White, MD

- To be presented at the American Academy of Otolaryngology–Head and Neck Surgery Foundation Annual Meeting on September 13, 2017 in Chicago, IL

“Down Syndrome and Pediatric Obstructive Sleep Apnea Surgery: A National Cohort”

Adrian A. Ong, MD; **Carlyn M. Atwood, BS**; Shaun A. Nguyen, MD, MA; Ronald J. Teufel II, MD; Chitra Lal, MD; Angela C. LaRosa, MD; David R. White, MD

- To be presented at the American Society of Pediatric Otolaryngology Annual Meeting in Austin, TX on May 18-21, 2017

“Changes in Management of Lymphatic Malformations in the United States from 1997-2012”

Carlyn M. Atwood, BS; Sharon H. Gnagi, MD; Ronald J. Teufel, MD; Shaun A. Nguyen, MD; David R. White, MD · Presented at the Triological Society Combined Otolaryngology Spring Meeting in San Diego, California on April 28th, 2017

“Blood Transfusion in Children with Sickle Cell Disease Undergoing Tonsillectomy”

Carlyn M. Atwood, BS; Sharon H. Gnagi, MD; Shayla M. Bergmann, MD; Ronald J. Teufel, MD; Shaun A. Nguyen, MD; David R. White, MD

- Presented at the Triological Society Combined Otolaryngology Spring Meeting in San Diego, California on April 28th, 2017

“Demographic Factors Associated with Age of Primary Repair of Cleft Palate in the United States”

Carly M Atwood, BS; Darrell Wright, MD; Shaun A Nguyen, MD; Krishna G Patel MD, PhD; Ronald J Teufel, MD; David R White, MD · Presented at the Medical University of South Carolina Research Day; November 4, 2016, Charleston, SC

Abstracts Accepted for Poster Presentation

“Predictors in Mortality in Patients with COVID-19 Undergoing Tracheostomy”

Carlyn Atwood, MD; Tanner Mitton BS; Parker Kenée, BA; Erin Wynings MD, Kathleen M. Tibbetts, MD

Presented at the American Broncho-Esophagological Association Spring Meeting, April 28-30, 2022 Dallas, TX

“Disparities in age of initial cochlear implantation in children: a local and national perspective”

Carlyn M. Atwood, BS; Meredith A. Holcomb, AuD, Shaun A. Nguyen MD; David R. White, MD

Presented at the Symposium on Cochlear Implants in Children on July 26-29, 2017 in San Francisco, CA

“National Trends in the Management of Subglottic Stenosis 1997-2012”

Sharon H Gnagi, MD; **Carlyn M Atwood, BS**; Shaun A Nguyen, MD; David R White, MD

· Presented at the American Society of Pediatric Otolaryngology Annual Meeting on May 18, 2017 in Austin, TX

“Temporal Trends of Pediatric Dysphagia in Hospitalized Patients”

Joshua Horton, MD; **Carlyn Atwood, BS**; Sharon H. Gnagi, MD; Clarice Clemmens, MD

· Presented at the American Society of Pediatric Otolaryngology Annual Meeting on May 18, 2017 in Austin, TX

“Obesity in Children Undergoing Tonsillectomy and Adenoidectomy in the United States 1997-

2012” **Carlyn M. Atwood, BS**; Ronald J. Teufel, MD; Shaun A. Nguyen, MD; David R. White, MD

· Presented at the American Society of Pediatric Otolaryngology Annual Meeting on May 18, 2017 in Austin, TX

“University of South Carolina School of Medicine Greenville Colleges Program”

Carly Atwood, Raquel Denis, Katy Dumas, Camiron Pfennig-Bass, MD

· Presented at the American Association of Medical Colleges GSA-CiM-OSR Professional Development Conference; June 23-26, 2016, St. Louis, MO

Published Manuscripts

Mitton T, **Atwood C**, Kenne P, Wynings E, Tibbetts KM. Predictors of Mortality in Patients With COVID-19 Undergoing Tracheotomy. *Ann Otol Rhinol Laryngol*. 2022 Aug 3;34894221115752. doi: 10.1177/00034894221115752. Epub ahead of print. PMID: 35923104.

Atwood C, Ulualp SO, Ungar GK. A Fractured Tracheostomy Tube Causing Airway Compromise
Am J Case Rep 2022; 23:e936072 :: DOI: 10.12659/AJCR.936072

Atwood CM, Gnagi SH, Teufel RJ 2nd, Nguyen SA, White DR. Blood transfusion in children with sickle cell disease undergoing tonsillectomy. *Int J Pediatr Otorhinolaryngol*. 2017;103:117-120. doi:10.1016/j.ijporl.2017.10.013

Ong AA, **Atwood CM**, Nguyen SA, et al. Down syndrome and pediatric obstructive sleep apnea surgery: A national cohort. *Laryngoscope*. 2018;128(8):1963-1969. doi:10.1002/lary.27063

Horton J, **Atwood C**, Gnagi S, Teufel R, Clemmens C. Temporal Trends of Pediatric Dysphagia in Hospitalized Patients. *Dysphagia*. 2018 Oct;33(5):655-661. doi: 10.1007/s00455-018-9884-9. Epub 2018 Feb 20. PMID: 29464395.

Horton JD, Gnagi SH, **Atwood CM**, Nguyen SA, White DR. Pharyngeal Flap Versus Sphincter Pharyngoplasty for Velopharyngeal Insufficiency: A Review of the 2014 and 2015 American College of Surgeons National Surgical Quality Improvement Project-Pediatrics Data. *J Craniofac Surg*. 2019;30(2):554-556. doi:10.1097/SCS.0000000000005164

Warren, J. A., Stoddard, C., Hunter, A. L., Horton, A. J., **Atwood, C.**, Ewing, J. A., Pusker, S., Cancellaro, V. A., Walker, K. B., Cobb, W. S., Carbonell, A. M., & Morgan, R. R. (2017). Effect of Multimodal Analgesia on Opioid Use After Open Ventral Hernia Repair. *Journal of gastrointestinal surgery : official journal of the Society for Surgery of the Alimentary Tract*, 21(10), 1692–1699.
<https://doi.org/10.1007/s11605-017-3529-4>

Clinical Trials

· **A Prospective, Randomized, Double Blind, Placebo-Controlled, Multicenter, Phase 3 Efficacy and Safety Study of OTO-104 Given as a Single Intratympanic Injection in Subjects with Unilateral Meniere’s Disease**

Sponsor: Otonomy, Inc.

Site: Medical University of South Carolina

Principal Investigator: Paul Lambert, MD

· **A 6-Month, Multicenter, Phase 3, Open-Label Extension Safety Study of OTO-104 Given at 3-Month Intervals by Intratympanic Injection in Subjects with Unilateral Meniere’s Disease**

Sponsor: Otonomy, Inc.

Site: Medical University of South Carolina

Principal Investigator: Paul Lambert, MD

· **A 1-Month, Prospective, Randomized, Double-Blind, Sham-Controlled, Multicenter, Phase 3 Study of OTO-201 Given as a Single Administration for Treatment of Acute Otitis Externa**

Sponsor: Otonomy, Inc.

Site: Medical University of South Carolina

Principal Investigator: David White, MD

· **Clinical Implementation of Image-Guided Cochlear Implant Stimulation Strategy**

Site: Medical University of South Carolina

Principal Investigator: Theodore McRackan, MD

· **Evaluation of Listening Effort in Cochlear Implant Users**

Sponsor: South Carolina Clinical & Translational Research (SCTR) Institute (K12 Grant)

Site: Medical University of South Carolina

Principal Investigator: Theodore McRackan, MD

Extracurricular Activities

CLASS OF 2017 REPRESENTATIVE | OCTOBER 2013-JUNE 2016| ASSOCIATION OF AMERICAN MEDICAL COLLEGES (AAMC) ORGANIZATION OF STUDENT REPRESENTATIVES (OSR)

- Facilitated communication between the student body at USC School of Medicine-Greenville and the AAMC
- Worked with Student Affairs to improve education and student wellbeing at my home institution
- Represented my home institution at yearly AAMC Regional Meetings

OSLER COLLEGE STUDENT LEADER| JUNE 2015-JUNE 2016| USC SCHOOL OF MEDICINE-GREENVILLE

- Worked with Student Government, Faculty, and Student Leaders to govern the USCSOMG Colleges
- Organized and planned events for the student body to promote community and wellness within the medical school

PRESIDENT OF THE ANESTHESIOLOGY INTEREST GROUP| FALL 2013-SPRING 2015| USC SCHOOL OF MEDICINE-GREENVILLE

- Founded the Anesthesiology Interest Group at USC School of Medicine-Greenville
- Organized Skills Labs for student members at the Simulation Center with the anesthesiologists of Greenville Health System
- Arranged shadowing opportunities for medical students with the anesthesiologists of Greenville Health System

TREASURER OF THE SURGERY INTEREST GROUP| FALL 2014-SPRING 2015| USC SCHOOL OF MEDICINE-GREENVILLE

- Assisted in the organization and event planning for the Surgery Interest Group

Community Service

- Volunteer at the Annual Head and Neck Screenings for Oral, Head and Neck Cancer Awareness Week, Greenville, SC, April 2016
- Undergraduate Clemson Bioengineering Society (UCBS) Career Panel Participant, Clemson, SC, March 2016
- Boat Based Medical Clinic Volunteer with Project Amazonas, Loreto Region, Peruvian Amazon, May 2015
- Surgical Team Volunteer with Baptist Medical and Dental Mission International in Guaimaca, Honduras, July 2013
- Biomedical Engineering Educator for Engineering Expo with Clemson Elementary School, 2011-2012
- Construction Team member with St. Bernard Project in New Orleans, LA, March 2012

Honors & Awards

- University of South Carolina School of Medicine-Greenville Step Scholarship, 2013-2016
- National Collegiate Inventors and Innovators Alliance E-team Phase 1 Grant Recipient, Somerfield, MA, January 2014
- National Collegiate Inventors and Innovators Alliance BMESTart 2012 National Design Competition, First Prize
- InnoVision Technology Awards 2012 Small Enterprise Finalist
- Trustee Scholarship Recipient, Clemson University 2008-2012
- Sherwood E. Liles Engineering Scholarship Recipient, Clemson University 2008-2012
- Palmetto Fellows Scholarship Recipient, 2008-2012