CURRICULUM VITAE

George B. Wanna, M.D., FACS

Department of Otolaryngology-Head and Neck Surgery

Division of Neurotology

The Bill Wilkerson Center for Otolaryngology & Communication Sciences

1215 21st Avenue South

7209 Medical Center East · South Tower

Nashville, Tennessee 37232-8605

CURRICULUM VITAE

GEORGE WANNA, M.D., FACS

PERSONAL INFORMATION

Business Address: The Vanderbilt Bill Wilkerson Center for Otolaryngology and

Communication Sciences

Department of Otolaryngology-Head & Neck Surgery

1215 21st Avenue South

7209 Medical Center East · South Tower Nashville, Tennessee 37232-8605 Academic: 615-875-1262 Clinical: 615-322-6180 Fax: 615-343-9725

E-Mail: george.wanna@vanderbilt.edu

Date of Birth: February 1, 1973

Citizenship: United States of America

EDUCATION

Medicine: Doctor of Medicine

Lebanese University Beirut, Lebanon

June 1998

POST-GRADUATE TRAINING

Residency: Otolaryngology

Sacred Heart University Hospital

Baabda-Lebanon/ Paul Sabatier University

Toulouse, France

1998-2002

Otolaryngology

Mt. Sinai Medical Center New York, New York

2003-2008

Fellowship: Post Doctorate Research Fellow in Neurotology

Department of Otolaryngology Columbia University Medical Center

New York, New York 07- 2002 – 10-2002

Otology/Neurotology Fellow Department of Otolaryngology

CHU Purpan Toulouse, France

2002-2003

Fellowship: Neurotology/Skull Base Fellow (Continued) The Otology Group of Vanderbilt

Nashville, Tennessee

2008-2010

<u>LICENSURE</u> Tennessee

2010-Present

License Number: MD45898

BOARD CERTIFICATION Diplomate, American Board of Otolaryngology, 2009

Diplomate, American Board of Otolaryngology [Neurotology], 2011

ACADEMIC APPOINTMENTS

Associate Professor

Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences

Vanderbilt University School of Medicine

July 1, 2014-Present

Assistant Professor

Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences Vanderbilt University School of Medicine

July 1, 2010- June 30, 2014

Associate Program Director, Neurotology Fellowship

Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences

Vanderbilt University School of Medicine

July 1, 2011-Present

Director, Skull Base Radiosurgery

The Otology Group of Vanderbilt

Vanderbilt University School of Medicine

July 1, 2011-Present

HOSPITAL APPOINTMENTS

2010-Present Full-Time Faculty

Vanderbilt University Medical Center

1211 Medical Center Drive

Nashville, Tennessee 37232-0002

2010-Present Full-Time Faculty

Monroe Carell Jr. Children's Hospital at Vanderbilt

2200 Children's Way

Nashville, Tennessee 37232

2010-2013 Active Staff

St. Thomas Hospital 4220 Harding Road

Nashville, Tennessee 37205

HOSPITAL APPOINTMENTS(CONTINUED)

2010-2013 Active Staff

St. Thomas Surgicare 4230 Harding Road

Nashville, Tennessee 37205

PROFESSIONAL ORGANIZATIONS

2006-Present	Fellow, American Academy of Otolaryngology-Head & Neck Surgery
	(AAO-HNS)
2012-Present	Member Otology/Neurotology Education Committee, AAO-HNS, 2012-2016
2014-Present	Member Skull Base Surgery Committee, AAO-HNS, 2014-2016
2011-Present	Fellow, American Neurotology Society (ANS)
2014- Present	Fellow, The American Laryngological, Rhinological and Otological Society, Inc.
	(Triological Society)
2012-Present	Member, Acoustic Neuroma Association Center of Excellence (ANA)
2012-Present	Member, Otosclerosis Study Group
2013-Present	Member, North American Skull Base Society
2013-Present	Fellow, American College of Surgeons
2013- Present	Member, Politzer Society

HONORS AND AWARDS

HONORS AND AWAR	RDS
2001	First Prize for Resident Research Day Symposium, Lebanon
	"Lebanese experience of cochlear implant."
2002	Best presentation at Groupe d'Étude des Maladies de l'Oreille (Group Study of
	Diseases of the Ear, G.E.M.O. Meeting, Méribel, France
	Malignant Otosclerosis: Stapedotomy or Cochlear Implant?
2005	Travel Grant, AAO-HNS
2005	Nominee for Best Physician at Mt. Sinai Hospital – NYC
2006	1st Prize, First Metropolitan New York Resident Research Day Symposium
	"Interleukin-12 Expression Enhances Vesicular Stomatitis Virus Oncolytic
	Therapy in Murine Squamous Cell Carcinoma" New York, NY
2014	Harris P. Mosher Award from the Triological Society. "This honor was created to
	perpetuate the ideals of the great teacher for whom it was named and to bestow
	upon a worthy recipient the responsibility of furthering the highest standards of
	perfection in the study, teaching and practice of Otolaryngology."

ACADEMIC ACTIVITIES

- Vanderbilt Otolaryngology Education Committee, 2011-present
- Faculty, Basic Science Lecture Series, Otolaryngology Residents
 - o "Treatment of Balance Disturbances," October 2009
 - o "Otosclerosis," September 2010
 - o "Chronic Ear Disease," November 2010
 - o "Facial Nerve Disorders," November 2010
 - o "Vertigo," November 2011
 - o "Otoscopy" February 2012
 - o "Middle Fossa Approach" March 2013
 - o "Cholesteatoma" October 2013
 - o "Conductive Hearing Loss" November 2013
 - o "Sensorineural Hearing Loss" November 2013

ACADEMIC ACTIVITIES (CONTINUED)

- Faculty, Resident Lecture Series, Neurotology Fellows and Faculty
 - o "Classification of Cholesteatoma," March 2010
 - o "Management of Acoustic Neuroma," July 2010
 - o "Research Update," October 2010
 - o "Otosclerosis and Imaging," March 2011
 - o "Radiosurgery for Acoustic Neuroma," August 2011
 - o "Contemporary management of glomus tumor" May 2012
 - o "Ménière's Disease update" July 2012
 - o "Neurotology-Skull base case presentations" December 2012
 - o "Research Update" May 2013
 - o "Neurotology-Skull Base case presentations" November 2013
 - o "Impact of type of electrodes and surgery on CI patients Outcomes" April 2014
- Faculty, Temporal Bone Course, Vanderbilt University Medical Center
 - o "Canal Wall Down Mastoidectomy," October 2009
 - o "Canal Wall Down Mastoidectomy," October 2010
 - o "Canal Wall Down Mastoidectomy," October 2011
 - o "New Implantable Technologies; Symphono & Ponto," October 2011
 - o "Canal Wall Down Mastoidectomy," October 2012
 - o "New Implantable Technologies; Symphono & Ponto," October 2012
 - o "Canal Wall Down Mastoidectomy," October 2013
 - o "New Implantable Technologies; Symphono & Ponto," October 2013
- Faculty, Endoscopic Middle Ear Surgery Course, Vanderbilt University Medical Center
 - o "Endoscopic Approach to Superior Semicircular Canal Fistula," April 2014
- Active Research on the Use of CELA in the Training of Otolaryngology Residents. 2011-present
- Preceptor for Medical Student Course, Continuity Clinical Experience [CCX], Vanderbilt University School of Medicine 2013-present
- Member, Program Committee of North America Skull Base Society(NASBS) 2014-2015
- Member, Vanderbilt Initiative in Surgery and Engineering (VISE). 2012-present
- Member, Vanderbilt Medical Economic Outcome Committee (MEOC).2014-present
- Member, Clinical Competence Committee of Otolaryngology 2013-present
- Member, Program Evaluation Committee of Otolaryngology 2013-present
- Member, Program Evaluation Committee of Neurotology 2013-present
- Member, Clinical Competence Committee of Neurotology 2013-present
- Physician Supervisor, Ken Watford, D.N.P., N.P. 2013-present
- Thesis: "The Impact of Electrode Type and Surgical Approach on Scalar Electrode Location and Hearing Outcomes in Cochlear Implantation" submitted to the Triological Society Council, August 2013.
- Faculty Coordinator, Residency Application Process, 2013-present
- Teaching and mentoring medical students, Vanderbilt University School of Medicine
- Mentor and involved in the training of all senior and chief residents on an individual, one-on-one, and fellowship rotation in Otology and Neurotology, Vanderbilt University Medical Center
- Mentor and involved in the training of 5 Fellows in Otology and Neurotology, The Otology Group of Nashville
 - o 2009-2011, Alejandro Rivas, MD Assistant Professor, Vanderbilt University Medical Center
 - o 2010-2012, Betty Tsai, MD Assistant Professor, University of Oklahoma
 - o 2011-2013, Stan Pelosi, MD Attending, New York Ear and Eye Infirmary
 - o 2012-2014, Matthew Carlson, MD Assistant Professor, Mayo Clinic
 - o 2013-2015, Alex Sweeney, MD Current Fellow

CONSULTING

 Oticon Medical, LLC 580 Howard Avenue Somerset, NJ 08873 USA 2013 - 2014

VISITING PROFESSORSHIPS

The Faculty of Medical Sciences Lebanese University Beirut, Lebanon Invited Guest Speaker, Resident Graduation July 2010

Department of Otolaryngology-Head and Neck Surgery Mt. Sinai Medical Center New York, New York Invited Guest Speaker, Grand Rounds November 2010

The Faculty of Medical Sciences Lebanese University Beirut, Lebanon Invited Guest Speaker, National ENT meeting December 2011

Department of Otolaryngology-Head and Neck Surgery University of Montreal Montreal, Canada Invited Visiting Professor November 2012

INSTRUCTIONAL COURSES (PEER-REVIEWED) - FACULTY

- Instructor, American Academy of Otolaryngology-Head and Neck Surgery
 - o "Current Trend in the Management of Sudden Hearing Loss," September 13, 2011
 - o "Chronic Ear Disease: Surgical Decisions and Techniques," September 14, 2011
 - o "Avoiding Complications in Chronic Ear Surgery," September 14, 2011
- Instructor, American Academy of Otolaryngology-Head and Neck Surgery
 - o "Current Trends in the Management of Sudden Hearing Loss," September 10, 2012
 - o "Avoiding Complications in Chronic Ear Surgery," September 11, 2012
- Instructor, American Academy of Otolaryngology-Head and Neck Surgery
 - o "Current Trends in the Management of Sudden Hearing Loss," September 30, 2013
 - o "Avoiding Complications in Chronic Ear Surgery," October 1, 2013
- Instructor, American Academy of Otolaryngology-Head and Neck Surgery
 - o "Chronic Ear Disease: Surgical Decisions and Techniques," September 21, 2014
 - o "Current Trends in the Management of Jugular Paragangliomas" September 23, 2014

MINISEMINAR (PEER-REVIEWED) - FACULTY

- Panelist, American Academy of Otolaryngology-Head and Neck Surgery
 - Sudden Sensorineural Hearing Loss: What Every Otolaryngologist Should Know,"
 September 24, 2014

INSTRUCTIONAL COURSES (NON PEER-REVIEWED) - FACULTY

- Instructor, Temporal Bone Surgical Dissection Course and Ear Symposium, The Otology Group of Vanderbilt
 - o October 9-11, 2008
 - o October 15-17, 2009
 - o October 14-16, 2010
 - o October 15-17, 2011
 - o October 11-13, 2012
 - o October 10-13, 2013
- Instructor, Endoscopic Middle Ear Surgery Dissection Course.

The Otology Group of Vanderbilt

o April 11-12, 2014

INVITED PRESENTATIONS

2009 American Hearing Association Education Summit

"Cochlear Implant in 2009"

Nashville, Tennessee

2010 Blanchfield Army Community Hospital

Medical Grand Rounds "Chronic Ear Disease" Ft. Campbell, Kentucky December 9, 2010

2011 Tennessee Hearing Association Annual Meeting

"Bridging the Gap between Hearing Aids and Cochlear Implants"

Pigeon Forge, Tennessee

May 14, 2011

2011 Vanderbilt University Medical Center

Department of Hearing & Speech Sciences Grand Rounds

"Vertigo" August 3, 2011

Harton Regional Medical Center

Medical Grand Rounds
"Conductive Hearing Loss"
Tullahoma, Tennessee
September 8, 2011

2012 Cumberland Regional Medical Center

Medical Grand Rounds

"Hearing Loss"

Crossville, Tennessee

June 5, 2012

Vanderbilt University Medical Center

Department of Hearing & Speech Sciences Grand Rounds

"Vertigo"

July 31, 2012

INVITED PRESENTATIONS (CONTINUED)

2012 University of Montreal-Canada

Department of Otolaryngology-Head and Neck Surgery, Temporal Bone Course

"Avoiding Complications in Chronic Ear Surgeries"

"Contemporary Management of Glomus Jugulare"

November 24-25, 2012

Hearing Health Seminar from Cochlear

"Cochlear Implant in the Elderly"

Embassy Suites Nashville South/Cool Springs

September 29, 2012

2013 Oticon Medical Scientific Meeting

Bone Anchored Hearing Aid

"Soft Tissue Surgery for BAHA"

Copenhagen, Denmark

March 17-March 20, 2013

Vanderbilt University Medical Center

Department of Hearing & Speech Sciences Grand Rounds

"Vertigo"

July 31, 2013

2014 Sisson International Otolaryngology Workshop

"Management of Sudden Hearing Loss"

Vail, Colorado

February 2-7, 2014

11th International Wullstein Ear Symposium

"Cochlear Implant in Accoustic Neuroma"

Würzburg, Germany

February 24-26, 2014

Mosher Award For Triological Thesis

"The impact of electrode type and surgical approach on scalar electrode location and hearing outcomes in cochlear implantation"

Las Vegas, Nevada

May 14-18, 2014

Service

Jamaica Humanitarian Mission at Jamaica Christian School of the Deaf, with support from Mission Discovery and Songs for Sound (in preparation), Leading Surgeon (2012-present)

Kenya Humanitarian Mission, with support from Songs for Sound (in preparation), Co-leading Surgeon (2013-present)

Songs for Sound, Volunteer (2012-present)

Postgraduate Courses Attended

- Linac Radiosurgery Course for Certification
 - o May 2010, Chicago IL
- Envoy Esteem® Course on Middle Ear Implants
 - o August 2010, Minneapolis MN
 - o November 2010, Minneapolis MN
- Anspach Skull Base Course
 - o November 2010, Palm Beach Gardens FL
- The Maxum System Course on Middle Ear Implants
 - o January 2011, Houston TX

CURRENT RESEARCH

Principal Investigator

- Molded Hydrogel Tympanic Membrane Repair Constructs in Chinchillas; 2/1/2012-present.
- The Diagnostic Sensitivity of Computed Tomography and Magnetic Resonance Imaging in Adult Cochlear Implant Candidates; 1/14/2014-present.
- Vestibular Rehabilitation Outcomes in Patients with Isolated Utricular Dysfunction; 1/25/2012present
- Management of Pediatric Cerebellopontine Angle Lesion; 9/13/2012-present
- Endolymphatic Sac Tumors: Clinical Features, Management and Outcomes; 8/01/2012- present
- Subtotally Resected Jugular Paraganglioma: Observation vs. Radiosurgery; 11/05/2012-present
- Glomus Tympanicum, Evolving Treatment Strategies; 3/12/13-present
- Transtemporal Repair of Middle Ear and Mastoid Encephaloceles and CSF Fistula; 7/23/2012present
- Stapes surgery in the pediatric population; 7/18/2012- present
- Refractory Eustachian Tube Dysfunction: Are the symptoms related to endolymphatic hydrops? Prospective study; 2012-2013
- Radiographic Evidence of Lateral Semicircular Canal Fistula; 7/3/2012- present
- Pediatric Assessment of Electrode Placement and Audiologic Outcomes in Bilateral Cochlear Implantation; 12/30/2010-1/25/2013
- Assessment Treatment Outcomes for Acoustic Neuroma Patients; 6/21/2011-6/28/2013
- Nanoparticles in the Treatment of Ménière's Disease: In Vivo Prospective Study, 2011- present
- Cost of Stapes Surgery with Laser vs. No Laser and Outcome Analysis; 01/25/2011-present
- Monaural Auditory Performance Before and After Sequential Bilateral Cochlear Implantation; 11/23/11-present.
- Current Trends in Management of Glomus Jugulare; 10/12/2010
- Evaluation of Facial Nerve Schwannomas; 10/07/2010
- Contemporary Management of Intracranial Complications of Otitis Media; 03/02/2009

Co-Investigator

- Pediatric Percutaneous Cochlear Implantation: In-Vivo Validation of Technique (PI-Robert Labadie); 05/12/2010-4/24/2013
- Percutaneous Cochlear Implantation: Implementation of Technique (PI Robert Labadie); 8/10/2011-11/11/2013
- Mastoid Bone Drilling Using Miniature Drill Press (PI-Robert Labadie); 09/29/2009-10/16/2013

Co-Investigator (CONTINUED)

- Clinical Validation and Testing of Percutaneous Cochlear Implantation (NIH: NIDCD, PI-Robert Labadie). 1R01DC008408-02, (2.5% effort); 04/01/2007-11/30/2012
- Assessment of Electrode Placement and Audiologic Outcomes in Bilateral Cochlear Implantation (PI-Robert Labadie). 2/12/2009-01//17/2013
- Less invasive, safer, and more accurate access to surgical sites within the skull can be achieved by combining image-guided surgical techniques and miniature parallel robots directly attached to the bone. This represents an extreme paradigm shift from the current imprecise manual procedures where both safety and efficacy fundamentally rely on human hand-eye coordination and memory (PI: Webster); 7/1/2011 6/30/2016
- Health Care Provider Perceptions of Self-Report Dizziness Disability/Handicap (PI Gary Jacobson); 8/20/2012-6/7/2013
- Preoperative Facial Weakness and Postoperative Outcomes after Surgery for Vestibular Schwannoma;
 (PI- Stan Pelosi) 10/29/2012-present
- Tympanoplasty: The Vanderbilt Experience (PI Alejandro Rivas); 8/1/2012-present
- Hearing Preservation and Radiologic Characteristics in Vestibular Schwannomas Undergoing Observation (PI Marc Bennett); 2/20/2012
- Evaluation of a Revised Indication for Determining Adult Cochlear Implant Candidacy (PI David Haynes); 5/4/2011-7/23/2013
- Evaluation of Skull Base Tumor Surgical Complications (PI Alejandro Rivas); 5/27/2011
- Evaluation of Temporal Bone Malignancies (PI Marc Bennett);5/25/2011
- Cochlear implants in patients with Ménière's Disease (PI Marc Bennett);7/21/2011
- Cochlear Implantation and Balance Function (PI Marc Bennett);6/21/2011
- Evaluation of Superior Semicircular Canal Dehiscence(PI Marc Bennett);7/21/2011
- Functional Outcomes in Patients Treated with LINAC-based Fractionated Stereotactic Radiotherapy for Acoustic Neuroma (PI-Tony Cmelak); 12/17/2010
- Intratympanic Steroid Injection in the Treatment of Ménière's Disease (PI-Marc Bennett); 07/23/2010
- Improving the Quality and Utility of The Otology Group of Vanderbilt's Record-Keeping System by Developing Software that Both Consolidates Patient Records from Vanderbilt and St. Thomas Hospitals into a Single Database and Also Helps Physicians Better Track and Analyze Patient Outcomes (PI-Michael Glasscock); 09/16/2009

GRANTS

- 1. Safe, Rapid Access to the Internal Auditory Canal for Acoustic Neuroma (NIH: NIDCD, Co-Investigator 5% effort). 1R01DC012593-01A1 2/15/2013 1/31/2017
- 2. Clinical Validation and Testing of Percutaneous Cochlear Implantation (NIH: NIDCD, Co Investigator 0.75 % effort). 2R01DC008408-05 A1 7/1/06 6/30/17
- 3. Pediatric Assessment of Electrode Placement and Audiologic Outcomes in Bilateral Cochlear Implantation; VICTR grant: VR1578. (2012)
- 4. Noise Exposure; VICTR grant: VR6417. (2013)
- 5. Molded Hydrogel Tympanic Membrane Repair Constructs in Chinchillas; 2/1/2012-present (SBIR R 43, R 44 Co PI submitted 10% effort) 7/1/13 6/30/15
- 6. Combined Electric and Binaural Acoustic Hearing (NIH NIDCD, Collaborator). R01 DC009404 12/1/2009-11/30/2014
- 7. Relationship Between Speech Perception Ability, Cortical Responses, and Imaging in Adult CI Recipients with AN/AD and with SNHL. 9/1/2012 8/31/2013

GRANTS(CONTINUED)

- 8. Image-Guided Endolymphatic Sac Surgery (NIH: NIDCD, Co-Investigator 5% effort). 1R01DC014098-01 submitted 11/12/2013
- 9. 104-201102 A Prospective, Randomized, Double-Blind, Placebo-Controlled, Multicenter, Phase 2b Study of OTO-104 Given as a Single Intratympanic Injection in Subjects with Unilateral Meniere's Disease.

FACULTY ADVISOR

Use of MRI in Predicting Need for Second-Look Cholesteatoma Surgery, (faculty advisor, 1.5% effort; PI-Betty Tsai, MD); 7/11/2011 – 6/30/2012

Preoperative facial weakness and postoperative outcomes after surgery for vestibular schwannoma (Faculty advisor, 1.5% effort; PI-Stan Pelosi, MD); 10/29/2012-6/30/2013

Current trends on the management of glomus jugulare (Faculty advisor to Alex Sweeney MD)

OTHER

Peer Reviewer, Laryngoscope: 2011- Present

Peer Reviewer, Otology Neurotology: 2011- Present

Peer Reviewer, Archives of Otolaryngology: 2011- Present

Peer Reviewer, European Archives Oto-Rhinolaryngology Head & Neck: 2013-Present

Peer Reviewer, Journal of Pediatrics: 2013-Present

Peer Reviewer, International Journal of Pediatrics ENT: 2012-Present

Peer Reviewer, American Journal of Otolaryngology: 2013-Present

Peer Reviewer, Otolaryngology-Head and Neck Surgery: 2012-Present

PUBLICATIONS: BOOK CHAPTERS

- 1. Pessey JJ, Deguine O, <u>Wanna G</u>. **ENT Pathologies after Explosion**. Encyclopedie Medico Chirurgicale. EMC 2004 (20-910-A-10)
- 2. <u>Wanna G</u>, Smouha E. **Vertigo: The New Encyclopedia of Neuroscience**, edited by Larry Squire et al., Elsevier, 2008.
- 3. Chaboki H, <u>Wanna G</u>, Weistrich R, Kao J, Packer S, Lawson W. **Nasal Cavity and Paranasal Sinus** Carcinoma: Head and Neck Cancer: An Evidence-Based Team Approach, 2008.
- 4. <u>Wanna G</u>, Pelosi S. **Congenital Hearing Loss**. Pediatric c Otolaryngology Head and Neck Surgery: A clinical reference, edited by Snajy R. Parikh. Plural Publishing 2013.
- 5. Wanna G, Carlson M. Complications of Otitis Media. The Chronic Ear 2014. (in press)

PUBLICATIONS: PEER-REVIEWED JOURNALS

- 1. Saliba I, Moukheiber A, <u>Wanna G</u>, Moukarzel N, Nehme A, Mansour S. **Hearing preservation** mastoidectomy in otogenic meningitis secondary to an enlarged vestibular aqueduct. Case report. *J Med Liban* 2000 Sep-Oct;48(5):327-32.
- 2. Fayad JN, <u>Wanna G</u>, Micheletto JN, Parisier SC. Facial nerve paralysis following cochlear implant surgery. *Laryngoscope* 2003 Aug;113(8):1344-6
- 3. Calmels MN, Saliba I, <u>Wanna G</u>, Cochard N, Fillaux J, Deguine O, Fraysse B. **Speech perception** and speech intelligibility in children after cochlear implantation. *Int J Pediatr Otorhinolaryngol* 2004 Mar; 68(3):347-51.
- 4. Saliba I, Calmels MN, Wanna G, Iversenc G, James C, Deguine O, Fraysse B. **Binaurality in middle ear implant recipients using contralateral digital hearing aids**. Otology & Neurotology 26(4):680-685, July 2005.
- 5. Shin E, <u>Wanna G</u>, Choi B, Aguilla D, Ebert O, Genden E, Woo S. Interleukin-12 expression enhances vesicular stomatitis virus oncolytic therapy in murine squamous cell carcinoma. *Laryngoscope* 2007 Feb; 117(2): 210-214.

PUBLICATIONS: PEER-REVIEWED JOURNALS (CONTINUED)

- 6. Shin E, Chang J, Choi B, <u>Wanna G</u>, Ebert O, Genden E, Woo S. **Fusogenic vesicular stomatitis** virus for the treatment of head and neck squamous carcinomas. *Otolaryngol Head Neck Surg* 2007 May;136(5):811-7.
- 7. Calmels MN, Viana C, <u>Wanna G</u>, James C, Deguine O, Fraysse B. **Very far advanced otosclerosis: Stapedotomy vs cochlear implant**. *Acta Otolaryngol* 2007 Jun; 127(6):574-8.
- 8. Kwang S, Choi B, <u>Wanna G</u>, Genden E, Shin E. **Combined VSV oncolytic virus and chemotherapy for squamous cell carcinoma**. *Laryngoscope* 2008 Feb;118(2):237-42.
- 9. Mukhija V, Kwang Sung, Desai S, <u>Wanna G</u>, Genden E. **Transoral robotic-assisted free flap** reconstruction. *Otolaryngology-Head and Neck Surgery* 2009 Jan;140(1):124-5
- 10. Haynes D, Young J, Wanna G, Glasscock M. Middle ear implantable hearing devices: An overview. *Trends Amplif* 2009 Sep;13(3):206-14.
- 11. Wanna G, Balachandran R, Majdani O, Mitchell J, Labadie R. Percutaneous access of petrous apex *in vitro* using customized drill guides based on image-guided surgical technology. *Acta Otolaryngol* Apr 2010, Vol. 130, No. 4, Pages 458-463: 458-463.
- 12. Wanna G, Young JA, Swanson E, Haynes D. **Spontaneous otogenic posterior fossa** pneumocephalus. *Otolaryngol Head Neck Surg.* 2010 Oct;143(4):593-4.
- 13. Schuman TA, Noble JH, Wright CG, Wanna G, Dawant B, Labadie RF. Anatomic verification of a novel method for precise intrascalar localization of cochlear implant electrodes in adult temporal bones using clinically available computed tomography. *Laryngoscope* 2010 Nov: 120 (11):2277-2283.
- 14. Wanna G, Dharamsi L, Moss J, Bennett M, Thompson R, Haynes DS. Contemporary management of intracranial complications of otitis media. *Otol Neurotol* 2010 Jan. 31(1):111-7.
- 15. <u>Wanna G</u>, Noble J, McRackan T, Dietrich M, Rivas A, Schuman T, Labadie R. **Assessment of electrode placement and audiologic outcomes in bilateral cochlear implantation**. *Otology Neurotology*. 2011 Apr;32(3):428-32.
- 16. McRackan T, Abdellatif WM, <u>Wanna G</u>, Rivas A, Gupta N, Dietrich MS, Haynes DS. **Evaluation of second-look procedures for pediatric cholesteatomas**. *Otolaryngol Head Neck Surg* 2011 Jul;145(1):154-60.
- 17. Mangus B, Rivas A, Yoo M, Alvarez J, <u>Wanna G</u>, Haynes D, Bennett M. **Management of CSF leak** following vestibular schwannoma surgery. *Otology Neurotology*, 2011 Dec; 32(9):1525-9.
- 18. McRackan T, Rivas A, <u>Wanna G</u>, Yoo MJ, Bennett ML, Dietrich MS, Glasscock ME, Haynes DS. Functional facial outcomes in facial schwannoma. *Otology Neurotology*, 2012 [an;33(1):78-82.
- 19. Mitchell R J, Pelosi S, <u>Wanna G</u>. Surgical removal of middle ear foreign body from complication of ear mold fitting. ENT Today, 2012 August;7(8): 4,28.
- 20. Pelosi S, Rivas A, Haynes D, Bennett M, Labadie R, Hedley A, <u>Wanna G</u>. Stimulation rate reduction and auditory development in poorly performing cochlear implant users with auditory neuropathy. *Otology Neurotology*, 2012 Dec;33(9):1502-6
- 21. Forbes JA, Rivas A, Tsai B, Ehtesham M, Zuckerman S, <u>Wanna G</u>, Weaver KD. **Microsurgical localization of the cochlea in the extended middle fossa approach**. *Journal of Neurological Surgery-Part B*. 2012 Dec; 73: 410-414
- 22. Noble JH, Labadie RF, <u>Wanna G</u>, and Dawant BM. **Image guidance could aid performance of atraumatic cochlear implantation surgical techniques.** *Proc. SPIE Medical Imaging*, 2013 March; 8671(1T):1-7.
- 23. <u>Wanna G</u>, Carlson ML, Noble JH, Dawant B, Labadie RF, Balachandra R. **Implantation of the completely ossified cochlea: An image-guided approach**. *Otology Neurotology* 2013 Apr; 34(3):522-5.

PUBLICATIONS: PEER-REVIEWED JOURNALS (CONTINUED)

- 24. Pelosi S, <u>Wanna G</u>, Hayes C, Sunderhaus L, Haynes D, Bennett M, Labadie R, Rivas A. **Cochlear** implantation vs hearing amplification in patients with auditory neuropathy spectrum disorder. *Otolaryngology-Head and Neck Surgery* 2013 May;148(5):815-21.
- 25. Carlson ML, Van Abel K, Pelosi S, Beatty C, Haynes DS, <u>Wanna G</u>, Bennett M, Driscoll C. Outcomes comparing primary pediatric stapedectomy for congenital stapes footplate fixation and juvenile otosclerosis. *Otology Neurotology* 2013 Jul;34(5):816-20
- 26. Carlson ML, Pelosi S, Haynes DS, Driscoll C, Thompson R, Weaver K, <u>Wanna G</u>. **Management of primary and recurrent endolymphatic sac tumors**. *Otology Neurotology* 2013 Jul;34(5):939-43
- 27. Pelosi S, Schuster D, Carlson ML, Rivas A, Bennett M, Haynes DS, <u>Wanna G</u>. **Clinical** characteristics associated with isolated unilateral utricular dysfunction. *American Journal of Otolaryngology* 2013 Sep-Oct;34(5):490-5.
- 28. Carlson M, Copeland W, Driscoll C, Link M, Weaver K, Thompson R, Haynes D, Wanna G. Temporal bone encephalocele and cerebrospinal fluid fistula repair utilizing the middle cranial fossa or combined mastoid-middle cranial fossa approach. *J of Neurosurgery* 2013 Nov;119(5):1314-22.
- 29. Pelosi S, <u>Wanna G</u>, Gifford R, Carlson ML, Rivas A, Bennett M, Haynes DS. **Unilateral auditory** performance before and after bilateral sequential cochlear implantation. *Otology Neurotology* 2013 Dec;34(9):1642-7.
- 30. Forbes J, Carlson M, Godil S, Bennett M, Wanna G, Weaver K. Retrosigmoid craniotomy for resection of acoustic neuroma with hearing preservation. *Neurosurgical Focus*. 2014 Jan:36:1
- 31. Carlson ML, Lutuska RF, Pelosi S, <u>Wanna G</u>, Bennett M, Rivas A, Glasscock ME, Haynes DS. **Evolving considerations in the surgical management of cholesteatoma in the only hearing** ear. *Otology Neurotology* 2014 Jan;35(1):84-90.
- 32. Lutuska RF, Carlson ML, Neff BA, Driscoll CL, <u>Wanna G</u>, Haynes DS. **Articular burns associated** with operating microscope use during otologic surgery. *Otology Neurotology* 2014 Feb;35(2):227-33
- 33. McRackan TR, Gifford RH, Kahue CN, Dwyer R, Labadie RF, <u>Wanna G</u>, Haynes DS, Bennett M. Cochlear implantation in Ménière's disease patients. *Otology Neurotology* 2014 Mar;35(3):421-5
- 34. Rohani P, Mcrackan T, Aulino J, <u>Wanna G.</u> Acute pediatric facial nerve paralysis as the first indication for familial cerebral cavernoma: Case presentation and literature review. *American Journal of Otolaryngology* 2014 Mar-Apr;35(2):211-4.
- 35. McRackan T, Pelosi S, Rivas A, Dietrich M, <u>Wanna G</u>, Labadie R, Haynes DS, Bennett M. **Factors** associated with recurrence of squamous carcinoma of the temporal bone. *Annals of Otology*, *Rhinology and Laryngology* 2014 Apr;123(4):235-9.
- 36. Dillon N, Balachandran R, Falisse A, <u>Wanna G</u>, Labadie R, Withrow T, Fitzpatrick J, Webster R. **Preliminary Testing of a Compact, Bone-Attached Robot for Otologic Surgery**. *Proc. SPIE Medical Imaging* 2014 April; 9036(14): 1-9
- 37. Turok RL, Labadie RF, Wanna G, and Dawant BM, Noble JH. Cochlear Implant Simulator for Surgical Technique Analysis. *Proc.* SPIE *Medical Imaging* 2014 April: 9036(19):1-8
- 38. Sweeney A, Carlson M, Rivas A, Bennett M, Haynes D, Wanna G. The Limitations of Computed Tomography in Adult Cochlear Implant Evaluation: Two Cases of Occult Neurofibromatosis Type 2. American Journal of Otolaryngology 2014 May-Jun;35(3):396-9
- 39. Pile J, <u>Wanna G</u>, Simaan N. **Force-Based Flexible Path Plans for Robotic Electrode Insertion.**Robotics & Automation Magazine IEEE. (*in press*)
- 40. Carlson M., Wanna G., Driscoll C., Weaver K., Link M. Clinical Presentation of Vestibular Schwannoma in Patients with Baseline Cognitive Disability. Otology Neurotology May 21 (epub)
- 41. Wanna G, Noble J, Carlson M, Gifford R, Dietrich M, Haynes D, Dawant B, Labadie R. Impact of electrode design and surgical approach on scalar location and cochlear implant outcomes. *Laryngoscope*. 2014 Apr 25(*epub*)

13 of 17

<u>PUBLICATIONS: PEER-REVIEWED JOURNALS</u> (CONTINUED)

- 42. Stavas M, Carlson M, Attia A, Jacobson G, Morales M, <u>Wanna G.</u> Does Radiation Dose to the Labyrinth Predict Change in Balance Function and Patient-perceived dizziness following stereotactic radiotherapy for vestibular schwannoma?" *American Journal of Otolaryngology.* 2014 May 8(epub)
- 43. Jacobson G, Piker E, Watford K, <u>Wanna G</u>, Rivas A. Concordance and discordance between patient and healthcare provider on dizziness self-report measures. *American Journal of Otolaryngology*. 2014 May 12 (epub)
- 44. Sweeney A, Carlson M, Haynes D, Thompson R, Chambless L, <u>Wanna G</u>, Rivas A. A novel method for autograft placement during tegmen repair: "the suture pull-through technique." Laryngoscope (*in press*)

PUBLICATIONS: NON PEER-REVIEWED JOURNALS

- 1. Smouha EE, <u>Wanna G</u>, Kristi Mohr. **Reconstructing the canal wall in cholesteatoma surgery**. *Otolaryngology-Head and Neck Surgery*, Volume 137, Issue 2, Supplement, Aug 2007, Pages P146-P147
- 2. <u>Wanna G</u>, Gifford R, McRackan T, Rivas A, Haynes D. **Bilateral cochlear implantation**. *Otolaryngology Clinics of North America*, 2012, Feb:45(1):81-9.
- 3. Rivas A, Wanna G, Haynes D. Revision cochlear implantation in children. Otolaryngology Clinics of North America, 2012 Feb, 45(1):205:19
- 4. Sweeney A, <u>Wanna G</u>, Bennett M, Haynes D. **Single Sided Hearing Loss**. The American Academy of Otolaryngology-Head and Neck Surgery, PMP; July 2014.

PRESENTATIONS

American Academy of Otolaryngology-Head & Neck Surgery(AAO-HNS)

- 2007 "Reconstructed Wall-Down Mastoidectomy", Washington D.C.
- 2009 "Resident and Fellow Education in Otology and Neurotology," San Diego, California
- 2010 "Evaluation of Second Looks for Pediatric Cholesteatomas," Boston, Massachusetts
- 2011 "Type of Electrodes Insertion and Hearing Preservation Outcome," San Francisco, California "Current Trend in the Management of Sudden Hearing Loss," San Francisco, California "Avoiding Complications in Chronic Ear Surgery," San Francisco, California
- "Cochlear Implantation versus Hearing Aids Auditory Neuropathy," Washington, D.C. "Monoaural Hearing Before/After Sequential Cochlear Implants," Washington, D.C. "Stapes Surgery in the Pediatric Population," Washington, D.C
 - "Current Trend in the Management of Sudden Hearing Loss," Washington, D.C.
 - "Avoiding Complications in Chronic Ear Surgery," Washington, D.C.
- "Clinical and Radiographic Predictors of Lateral Canal Fistula." Vancouver, Canada "Current Trend in the Management of Sudden Hearing Loss," Vancouver, Canada "Avoiding Complications in Chronic Ear Surgery," Vancouver, Canada
- 2014 "Chronic Ear Disease: Surgical Decisions and Techniques" Orlando, Florida
 - "Current Trends in the Management of Jugular Paragangliomas" Orlando, Florida
 - "Sudden Sensorineural Hearing Loss: What Every Otolaryngologist Should Know" Orlando, Florida
 - "Natural History of Jugular Paragangliomas: A Review of 16 Patients Managed with Conservative Observation" Orlando, Florida
 - "Evolution in Surgical Management of Blomus Tympanicum Over 40 Years: A Review of 114 Cases" Orlando, Florida
 - "Subtotal Resection for Management of Large Jugular Paragangliomas With Intact Lower Cranial Nerves" Orlando, Florida

PRESENTATIONS (CONTINUED)

American Academy of Otolaryngology-Head & Neck Surgery(AAO-HNS)

2014 "Tight Subperiosteal Pocket During Cochlear Implant Surgery: Results in a Large Cohort of Patients" Orlando, Florida

Combined Otolaryngological Spring Meetings (COSM)

- 2005 "Genetically Modified Fibers in Ad Virus-Enhanced Transduction." Boca Raton, Florida
- 2006 "VSV-Il12 in vivo Treatment for SCCHN," Chicago, Illinois
- 2009 "Spontaneous Otogenic Posterior Fossa Pneumocephalus. Case Report and Review of the Literature," Phoenix, Arizona
 - "Contemporary Management of Intracranial Complications of Otitis Media," Phoenix, Arizona
- 2009 "Percutaneous Access of Petrous Apex *in vitro* Using Customized Drill Guides Based on Image-Guided Surgical Technology," Phoenix, Arizona
- 2010 "Assessment of Electrode Localization and Audiologic Outcome in Bilateral Cochlear Implant Patients," Las Vegas, Nevada
- 2011 "Functional Facial Nerve Outcomes in Facial Nerve Schwannomas," Chicago, Illinois
 - "Management of CSF Leaks following Vestibular Schwannoma Surgery," Chicago, Illinois
 - "Trends in Management of Glomus Jugulare from 1970-2010," Chicago, Illinois
 - "Canal Wall Reconstruction in the Surgical Management of Cholesteatoma," Chicago, Illinois
- 2012 "Programming Strategy and Outcomes in Cochlear Implant Patients with Auditory Neuropathy Spectrum Disorder," San Diego, California
 - "Factors Associated with Recurrence in Squamous Cell Carcinoma Involving the Temporal Bone," San Diego, California
 - "Surgical Removal of Middle Ear Foreign Body from Complication of Ear Mold Fitting," San Diego, California
- 2013 "The Influence of Isolated Utricular Dysfunction on Self –Reported Dizziness," Orlando, Florida
 - "Management of Primary and Recurrent Endolymphatic Sac Tumors: A review of 15 cases," Orlando, Florida
 - "Cochlear Implantation in Ménière's Disease Patients" Orlando, Florida
 - "Outcome following Stapedectomy for Congenital Stapes Footplate Fixation and Juvenile Otosclerosis" Orlando, Florida
 - "Contemporary Management of Cholesteatoma in the Only Hearing Ear" Orlando, Florida
- 2014 "Auditory and Quality of Life Outcomes in Conductive and Mixed Hearing Loss with an Implantable Middle Ear Hearing Aid" Las Vegas, Nevada
 - "The impact of electrode type and surgical approach on scalar electrode location and hearing outcomes in cochlear implantation" Las Vegas, Nevada
 - "The utility of MRI in adult cochlear implant evaluation: two cases of occult neurofibromatosis type-2" Las Vegas, Nevada
 - "The one-cut meatoplasty: Novel surgical technique and outcomes" Las Vegas, Nevada

Medical Imaging: The International Society for Optics and Phonetics (SPIE)

- 2013 "Image Guidance Could Aid Performance of Atraumatic Cochlear Implantation Surgical Techniques" Miami, FL
- 2014 "Preliminary Testing of a Compact, Bone-Attached Robot for Otologic Surgery" San Diego, CA "Cochlear Implant Simulator for Surgical Technique Analysis" San Diego, CA

PRESENTATIONS (CONTINUED)

North American Skull Base Society(NASBS)

- 2011 "Microsurgical Anatomy of the Cochlea in the Extended Middle Fossa Approach," Scottsdale, AZ
- 2013 "Temporal Bone Encephalocele and Cerebrospinal Fluid Fistula Repair Utilizing the Middle Cranial Fossa or Combined Mastoid-Middle Cranial Fossa Approach" Miami, FL
- 2014 "Does Radiation Dose to the Labyrinth Predict Change in Balance Function and Patientperceived dizziness following stereotactic radiotherapy for vestibular schwannoma?" San Diego, CA
 - "Clinical Presentation of Vestibular Schwannoma in Patients with Baseline Cognitive Disability" San Diego, CA
 - "A Novel Method for Multilayer Autograft Placement during Middle Cranial Fossa Encephalocele and CSF leak repair: the suture pull-through technique" San Diego, CA.

13th International Conference on Cochlear Implants and Other Implantable Auditory Technologies

- 2014 "Cochlear Implantation versus Hearing Amplitication in Patients With Auditory Neuropathy Spectrum Disorder" Munich, Germany
 - "Implantation of the Completely Ossified Cochlea: An Image –Guided Approach" Munich, Germany.
 - "Stimulation Rate Reduction and Auditory Development in Poorly Performing Cochlear Implant Users with Auditory Neuropathy" Munich, Germany.
 - "Cochlear Implant in Single Sided Deafness" Munich, Germany.

International Conference on Robotic and Automation

2014 "Force-Based Flexible Path Plans for Robotic Electrode Insertion" Hong Kong, China.

European Symposium on Pediatric Cochlear Implants

- 2013 "Programming Strategy in Auditory Neuropathy Patients with Cochlear Implant" Istanbul, Turkey.
 - "Cochlear Implantation versus Hearing Amplification in Patients with Auditory Neuropathy" Istanbul, Turkey.
 - "Unilateral Auditory Performance Before and After Bilateral Sequential Cochlear Implantation" Istanbul, Turkey.

12th International Conference on Cochlear Implants

2012 "Influences in Hearing Preservation Based on Electrodes and Insertion Approach" Baltimore, MD

The Society for Ear, Nose and Throat Advances in Children (SENTAC)

2012 "Familial Cerebral Cavernous Malformation: An Unusual Presentation of Facial Nerve Paralysis" Charleston, SC

Ibero American Meeting

- 2012 "Management of Glomus Jugulare" Iguassu Falls, Brazil
 - "Influences in Hearing Preservation Base on Electrodes" Buenos Aires, Argentina
 - "Jugular Paraganglioma" Bogotá, Colombia

PRESENTATIONS (CONTINUED)

Société Internationale Francophone D'OtoRhinoLaryngologie (SIFORL)

2003 "Cholesteatoma in Children: Surgical Strategy and Classification," Quebec, Canada

Société Française D'OtoRhinoLaryngologie(SFORL)

2002 "Middle Ear Implant and Cochlear Implant," Toulouse, France

2003 "Cochlear Implant: Past, Present and Future," Bordeaux, France "Otosclerosis and Imaging," Paris, France

International College of Surgeons

2001 "Cochlear Implant" Beirut, Lebanon

"Recurrent Nerve Stimulation in Thyroidectomy," Beirut, Lebanon