

**CURRICULUM VITAE**

**George B. Wanna, M.D.**

**Department of Otolaryngology-Head and Neck Surgery**

**Division of Neurotology**

**The Bill Wilkerson Center for Otolaryngology & Communication Sciences**

**7209 Medical Center East · South Tower**

**1215 21<sup>st</sup> Avenue South**

**Nashville, Tennessee 37232-8605**

**OCTOBER 2011**

**CURRICULUM VITAE**

**GEORGES BOULOS WANNA, M.D.**

**PERSONAL INFORMATION**

Business Address:

**Vanderbilt Office:**

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Communication Sciences  
Department of Otolaryngology-Head & Neck Surgery  
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Date of Birth:

February 1, 1973

**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:

Postdoctorate Research Fellow in Neurotology  
Department of Otolaryngology  
Columbia University  
New York, New York  
2002

Otology/Neurotology Fellow  
Department of Otolaryngology  
CHU Purpan  
Toulouse, France  
2002-2003

Neurotology/Skull Base Fellow  
The Otology Group of Vanderbilt  
1215 21<sup>st</sup> Avenue South  
7209 Medical Center East-South Tower  
Nashville, Tennessee 37232-8605  
2008-2010

**LICENSURE**

Tennessee  
2010-Present  
License Number: MD45898

**BOARD CERTIFICATION**

Diplomate, American Board of Otolaryngology, 2009  
Diplomate, American Board of Otolaryngology [Neurotology], 2011

**ACADEMIC APPOINTMENTS**

Assistant Professor  
Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences  
Vanderbilt University School of Medicine  
2010-Present

Associate Program Director, Neurotology Fellowship  
Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences  
Vanderbilt University School of Medicine  
October 2011-Present

**HOSPITAL APPOINTMENTS**

2010-Present      Vanderbilt University Medicine Center  
1211 Medical Center Drive  
Nashville, Tennessee 37232-0002  
Full-Time Faculty

2010-Present      Monroe Carell Jr. Children's Hospital at Vanderbilt  
2200 Children's Way  
Nashville, Tennessee 37232  
Full-Time Faculty

2010-Present            St. Thomas Hospital  
4220 Harding Road  
Nashville, Tennessee 37205  
Active Staff

2010-Present            St. Thomas Surgicare  
4230 Harding Road  
Nashville, Tennessee 37205  
Active Staff

#### **HONORS AND AWARDS**

2001                      First Prize for Resident Research Day Symposium, Lebanon  
Lebanese experience of cochlear implant.

2002                      Best presentation at GEMO Meeting, France  
Malignant Otosclerosis: Stapedotomy or Cochlear Implant?

2005                      Travel Grant, American Academy of Otolaryngology-Head & Neck Surgery

2005                      Nominee for Best Physician at Mt. Sinai Hospital – NYC

2006                      1<sup>st</sup> Prize, First Metropolitan New York Resident Research Day Symposium  
“Interleukin-12 Expression Enhances Vesicular Stomatitis Virus Oncolytic  
Therapy in Murine Squamous Cell Carcinoma”

#### **PROFESSIONAL ORGANIZATIONS**

2006-Present            American Academy of Otolaryngology-Head & Neck Surgery

2011-Present            American Neurotology Society

#### **ACADEMIC ACTIVITIES**

- Lecturer, Basic Science Lecture, Otolaryngology Residents
  - “Treatment of Balance Disturbances,” October 2009
  - “Otosclerosis,” September 2010
  - “Chronic Ear Disease,” November 2010
  - “Facial Nerve Disorders,” November 2010
- Lecturer, Resident Lecture Series, Neurotology Fellows and Faculty
  - “Classification of Cholesteatoma,” March 2010
  - “Management of Acoustic Neuroma,” July 2010
  - “Research Update,” October 2010
  - “Otosclerosis and Imaging,” March 2011
  - “Radiosurgery for Acoustic Neuroma,” August 2011

#### **VISITING PROFESSORSHIPS**

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

Guest Speaker  
Department of Otolaryngology Grand Rounds  
Mt. Sinai Medical Center  
New York, New York  
November 2010

**INSTRUCTIONAL COURSES - FACULTY**

- Instructor, American Academy of Otolaryngology-Head and Neck Surgery
  - “Current Trend in the Management of Sudden Hearing Loss,” September 13, 2011
  - “Chronic Ear Disease: Surgical Decisions and Techniques,” September 14, 2011
  
- Instructor, Temporal Bone Course, The Otology Group of Vanderbilt
  - October 9-11, 2008
  - October 15-17, 2009
  - October 14-16, 2010

**INVITED PRESENTATIONS**

2009            American Hearing Association  
                  “Cochlear Implant in 2009”  
                  Nashville, Tennessee

2010            Blanchfield Army Community Hospital  
                  “Chronic Ear Disease”  
                  Ft. Campbell, Kentucky  
                  December 9, 2010

2011            Tennessee Hearing Association  
                  “Bridging the Gap Between Hearing Aids and Cochlear Implants”  
                  May 14, 2011  
                  Pigeon Forge, Tennessee

                  Vanderbilt University Medical Center  
                  Department of Hearing & Speech  
                  “Vertigo”  
                  August 3, 2011

                  Harton Regional Medical Center  
                  “Conductive Hearing Loss”  
                  Tullahoma, Tennessee  
                  September 8, 2011

                  2011 Annual Meeting & AAO EXPO  
                  “Current Trend In The Management Of Sudden Hearing Loss”  
                  “Avoiding Complications In Chronic Ear Surgery”  
                  San Francisco, CA  
                  September 9-14, 2011

### **NATIONAL RESEARCH PROGRAMS**

- Clinical Validation of Percutaneous Petrous Apex Approach, 2010-present
- Correlation of MicroCT and Histology for Electrodes Position in Cochlear Implant, 2010-present
- Intratympanic Steroid in Meniere's Disease: Prospective Study; 2010-present
- Management of CSF Leak in Vestibular Schwannoma, 2010-present
- Correlation of Intraoperative ABR and Hearing Outcome, 2008-2009
- Outcome of Bilateral Cochlear Implant, 2010-present

### **NATIONAL RESEARCH PROGRAMS (Continued)**

- Hearing Outcome in Conservative Management of Vestibular Schwannoma, 2009
- Reconstructing the Canal after Wall-Down Mastoidectomy , 2006-2007
- Interleukin-12 Expression Enhances Vesicular Stomatitis Virus Oncolytic Therapy in Murine Squamous Cell Carcinoma, 2005-2006
- Combined Mutant VSV with Radiation and/or Chemotherapy for Treatment of Squamous Cell Carcinoma of Head and Neck in Mice.(submitted for grant), 2005-2006
- 41 BBL Enhances Adenovirus/VSV-Mediated IL-12 Gene Therapy in Murine Squamous Cell Carcinoma, 2005-2006
- Three-Dimensional CT Scanning of the Temporal Bone, 2005

### **POSTGRADUATE COURSES ATTENDED**

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

### **PRESENTATIONS**

#### American Academy of Otolaryngology-Head & Neck Surgery

- 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

#### Combined Otolaryngological Spring Meetings (COSM)

- 2005 "Genetically Modified Fibers in Ad Virus-Enhanced Transduction." Boca Raton, Florida
- 2006 "VSV-II12 *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
- "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

### Francophone Meeting

- 2000 “Recurrent Nerve Stimulation in Thyroidectomy,” Beirut, Lebanon  
2003 “Cholesteatoma in Children: Surgical Strategy and Classification,” Quebec, Canada

### GEMO Meeting

- 2003 “Cochlear Implant: Past, Present and Future,” Bordeaux, France

### International College of Surgeons

- 2001 “Cochlear Implant,” Beirut, Lebanon

### North American Skull Base Society

- 2011 “Microsurgical Anatomy of the Cochlea in the Extended Middle Fossa Approach,”  
Scottsdale, Arizona

### Otology and Neurotology National Meeting

- 2002 “Middle Ear Implant and Cochlear Implant,” Toulouse, France  
2003 “Otosclerosis and Imaging,” Paris, France

## **CURRENT RESEARCH**

### **Principal Investigator**

- Cost of Stapes Surgery with Laser vs. No Laser and Outcome Analysis; 01/25/2011
- Pediatric Assessment of Electrode Placement and Audiologic Outcomes in Bilateral Cochlear Implantation ; 12/30/2010
- Current Trends in Management of Glomus Jugulare; 10/12/2010
- Evaluation of Facial Nerve Schwannomas; 10/07/2010
- Pleomorphic Adenoma in the External Auditory Canal : A Case Report; 09/30/2010

### **Co-Investigator**

- 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 Meniere’s Disease (PI-Marc Bennett); 07/23/2010
- Pediatric Percutaneous Cochlear Implantation: In-Vivo Validation of Technique (PI-Robert Labadie); 05/12/2010
- Mastoid Bone Drilling Using Miniature Drill Press (PI-Robert Labadie); 09/29/2009
- 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
- Clinical Validation and Testing of Percutaneous Cochlear Implantation (NIH: NIDCD, PI-Robert Labadie). 1R01DC008408-02, (2.5% effort); 04/01/2007-03/31/2011
- 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



## Faculty Advisor

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

## PUBLICATIONS: BOOK CHAPTERS

1. JJ. Pessey, O. Deguine, **G. Wanna**. ENT pathologies after explosion. *Encyclopedie Medico Chirurgicale*. EMC 2004 (20-910-A-10)
2. **Wanna G**, Smouha E. Vertigo: The New Encyclopedia of Neuroscience, edited by Larry Squire et al, Elsevier, 2008.
3. Chaboki H, **Wanna G**, Weistrich R, Kao J, Packer S, Lawson W. Nasal cavity and paranasal sinus carcinoma: Head and Neck Cancer: An Evidence-Based Team Approach, 2008.

## PUBLICATIONS: PEER-REVIEWED JOURNALS

1. Saliba I, Moukheiber A, **Wanna G**, 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, **Wanna G**, Micheletto JN, Parisier SC. Facial nerve paralysis following cochlear implant surgery. *Laryngoscope* 2003 Aug;113(8):1344-6.
3. Calmels MN, Saliba I, **Wanna G**, 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, **Wanna G**, 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.
6. Shin E, Chang J, Choi B, **Wanna G**, 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, **Wanna G**, 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, **Wanna G**, 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, **Wanna G**, Genden E. Transoral Robotic-Assisted Free Flap Reconstruction. *Otolaryngology-Head and Neck Surgery* 2009 Jan;140(1):124-5.
10. Haynes D, Jadrien Y, **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**, Noble J, McRackan T, Dietrich M, Rivas A, Schuman T, Labadie R. Assessment of electrode placement and audiologic outcomes in bilateral cochlear implantation. (In press. *Otology-Neurotology*)
15. **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.
16. McRackan T, Abdellatif WM, **Wanna GB**, 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. **Wanna G**, Gifford R, McRackan T, Rivas A, Haynes D. Bilateral Cochlear Implantation. *Otolaryngology Clinics of North America, in press*
18. Rivas A, **Wanna G**, Haynes D. Complications of Cochlear Implants. *Otolaryngology Clinics of North America, in press*
19. Mangus B, Rivas A, Yoo M, Alvarez J, **Wanna G**, Haynes D, Bennett M. Management of CSF leak following Vestibular Schwannoma Surgery. *Otology-Neurotology, in press.*
20. McRackan T, Rivas A, **Wanna G**, Haynes D. Functional Facial Outcomes in Facial Schwannoma. *Otology-Neurotology, in press.*