

## Cliff A. Megerian, MD



**University Hospitals  
Case Medical Center  
11100 Euclid Ave  
Phone: 216-844-5500  
Fax: 216-8445727  
E-mail: Cliff.megerian@UHhospitals.org**

### **CURRENT POSITION:**

**Richard and Patricia Pogue Chair in Auditory Surgery and Hearing Sciences  
Vice Chairman Otolaryngology-Head and Neck Surgery  
Director of Otology and Neurotology  
University Hospitals Case Medical Center**

### **ACADEMIC AND HOSPITAL APPOINTMENTS:**

Professor of Otolaryngology-Head and Neck Surgery and Neurological Surgery

### **EDUCATION & TRAINING:**

#### Education

8/1984-6/1988 University of Michigan Medical School, Ann Arbor Michigan

#### Postgraduate Training

7/1988-6/1989 General Surgery Internship-Case Western Reserve/University Hospitals of Cleveland

7/1989-6/1993 Residency-Otolaryngology-Head and Neck Surgery-Case Western Reserve/University Hospitals of Cleveland

7/1993-6/1995 Clinical and Research Fellowship in Neurotology/Skull Base Surgery-Massachusetts Eye and Ear Infirmary/Harvard Medical School

### **PROFESSIONAL EXPERIENCE:**

#### Academic

7/1995-6/1998 Assistant Professor of Otolaryngology, Director of Otology and Neurotology-University of Massachusetts Medical Center

7/1998-6/2002 Associate Professor of Otolaryngology, Director of Otology and Neurotology-University of Massachusetts Medical Center

7/2002-6/2006 Associate Professor of Otolaryngology, Director of Otology and Neurotology, Case Western Reserve University/Case Medical Center

7/2006-Present Professor and Vice Chairman Otolaryngology, Director of Otology and Neurotology

### **BOARD CERTIFICATION:**

1994 Otolaryngology  
2004 Neurotology

**HOSPITAL AFFILIATIONS:**

2002 University Hospitals/Case Medical Center  
2002 Wade Park VA Medical Center-Consultant  
2003 MetroHealth Medical Center-Courtesy Staff

**HONORS AND AWARDS:**

2008 Recipient of Richard and Patrica Pogue Endowed Chair in Auditory Surgery and Hearing Sciences  
2005 American Academy of Otolaryngology-Head and Neck Surgery Honor Award  
2002 Charles Vaughn Otolaryngology Teacher of the Year Award  
2009 Best Doctors

**PROFESSIONAL SOCIETIES:**

2006 American Otological Society  
2005 Triological Society  
2002 American Neurotology Society

**HOSPITAL COMMITTEES:**

2007-present UHMG Board Financial Committee  
2006-Present Medical Director for Clinical Risk Management for University Hospitals Medical Group  
2006-2009 Committee for Appointments and Tenure-Case Western Reserve University School of Medicine  
2002-2010 Departmental Billing Cycle Management Committee

**EDITORIAL BOARDS:**

Otology and Neurotology  
American Journal of Otolaryngology  
Current Surgery

**AD HOC REVIEWER:**

## JOURNAL MANUSCRIPT REVIEWER/EDITORIAL BOARD

1. Journal of The American Academy of Dermatology
2. Otolaryngology – Head and Neck Surgery
3. Tissue Engineering
4. American Journal of Otology
5. The Middle European Journal of Medicine
6. Annals of Family Medicine
7. The Laryngoscope
8. Otology and Neurotology (Editorial Board)
9. Current Surgery (Editorial board)
10. Otolaryngology-Head and Neck Surgery Select
11. Journal of Biomedical Materials Research: Part A
12. Archives of Otolaryngology-Head and Neck Surgery
13. Ear and Hearing Journal
14. EMedicine-(Editoral Board)
15. Journal of Psychosomatic Research
16. American Journal of Otolaryngology (Editorial Board)
17. Journal of Clinical Otolaryngology and Allied Sciences
18. Audiology and Neurotology
19. Journal for the Association of Research in Otolaryngology (JARO)
20. Journal of Neurosurgery
21. Annals of Otology, Laryngology and Rhinology (Otolaryngology)
22. Clinical Otolaryngology
23. Yonsei Medical Journal
24. Lancet
25. Journal of Neuroscience Methods

### **ADVISORY COUNCILS & PROFESSIONAL SERVICE:**

- |              |   |
|--------------|---|
| 2009-present | American Otological Society-Program Advisory Committee  |
| 2009-present | American Neurotology Society-Scientific Advisory Committee  |
| 2006-Present | American Otolaryngology-Head and Neck Surgery Committee-Chairman of Otology and Neurotology Education Committee |

### **GRANT REVIEWS:**

- |              |   |
|--------------|---|
| 2008-present | Coulter Foundation Grant Advisory Committee |
| 2008         | US Navy-Ad Hoc Grant reviewer               |

### **GRANTS & SPONSORED RESEARCH:**

#### Principal Investigator

NIH-R03 PI: Molecular Aspects of Hearing loss in Meniere's Disease (2006-2009)

#### Co-Investigator

NIH-R21: Middle ear Sensors for totally implantable cochlear implants (completed)

NIH-R01: Percutaneous Cochlear Implantation (Dr Labadie-PI)

### **INVITED PRESENTATIONS:**

#### **INVITED & VISITING LECTURES , PROFESSORSHIPS, FACULTY**

1. University of Marmara, Istanbul, Turkey, April 24-27, 1996 Lectures:
  - "Management of the Vertigo Patient"
  - "Surgical Management of Meniere's Disease"
  - "Management of Acoustic Neuroma"
  - "Surgical Management of Jugular Foramen Lesions"

2. Symposium in honor of Dr. Anthony Maniglia, Case Western Reserve University, June 5, 1999. "Immunohistochemistry of the inner ear and kidney in systemic immune complex disease".
3. Invited discussant Surgical Round Table " Cochlear implantation with the Med-EI device " November, 2000, Innsbruck, Austria.
4. Boston University Grand Rounds, Department of Otolaryngology, "Revision Mastoidectomy", May, 2000
5. Cleveland Clinic Foundation Department of Otolaryngology Visiting Professor. "Autoimmune Inner Ear disease". August 14, 2000.
6. Massachusetts General Hospital, Harvard Medical School Department of Pediatrics Grand Rounds "An eight-year-old boy with fever, vertigo, and headache after an ear injury". Case records of the Massachusetts General Hospital for the NEJM Sept. 26 2000.
7. Case Western Reserve University, Department of Otolaryngology Visiting Professor, "Tissue engineered ear drum repair", "Endolymphatic sac tumor" November 19-21, 2001.
8. Invited faculty conference on bilateral cochlear implants using the Med-EI device. Quebec, Canada, February 2001.
9. Boston University Grand Rounds, Department of Otolaryngology, "Surgical Management of Vestibular Disorders", "Endolymphatic Sac Tumors", January 2002.
10. Fallon Clinic Dept Otolaryngology, Visiting Professor, "Clinical Otology", January 29, 2002.
11. Mayo Clinic Foundation and Medical School, Department of Otolaryngology, Rochester, Minn, Visiting Professor, April 2002.
12. Clarke School for the Deaf, Visiting lecturer, Northhampton, Mass, May 2002.
13. "Practical Reviews in Otolaryngology" invited guest lecturer for AAO-HNS monthly publication: "Update on Cochlear Implantation", Oct 2002.
14. Anspach Corporation Otology and Neurotology Temporal Bone Surgical Course- Invited guest instructor, Palm Beach, Florida, November 2002.
15. CWRU Anatomy and Physiology of Speech and Hearing Guest Lecturer Nov 2002
16. Memorial Hospital of Geneva Grand Rounds (University Hospitals Health System) "The work-up and Management of Vertigo" November 18, 2002.
17. Millridge School for the Hearing Impaired Parents Group "Update on cochlear implantation, October, 2002.
18. Fairview Hospital/Cleveland Clinic "Cochlear implantation in the hearing impaired child", February 2003.
19. Invited faculty international ear implant meeting Toulouse, France, June 5-6-7, 2003
20. Cleveland Hearing and Balance Symposium in Honor of Franklin Rizer, M.D. Speaker, March 20, 2004.
21. University of Marmara, Istanbul Turkey: Visiting Professor: "Harvard Techniques in Otolaryngology" May 17-19, 2004.
22. Northeast Ohio Otolaryngology Society, Invited Judge for Resident Research competition, May 2004.
23. American Tinnitus Association (Cleveland Chapter) invited speaker, June 2004.
24. Cleveland Hearing and Speech Center "Cochlear Implants: Clinical Culture and Views" invited speaker, October 4, 2004.
25. Vanderbilt University: Invited Panel Member, Sisson annual winter meeting, Vail, Colorado, Feb, 2005.
26. University of Pittsburgh ENT Alumni Day Resident Research Competition Judge, March 19, 2005.
27. Organizing committee for 2006 "Harvard Applications in Otolaryngology" in Istanbul, Turkey.
28. William House Cochlear Implant Study Group at the Annual Meeting of the American Academy of Otolaryngology –Head and Neck Surgery, invited discussant regarding cochlear implant complications. Los Angeles, California, Sept 2005.
29. Cleveland Clinic Foundation: Vestibular Grand Rounds, "Endolymphatic Sac Tumors and Vertigo" October 2005.
30. Cleveland Clinic-Lakewood Hospital: Invited grand rounds speaker" Tinnitus and the primary care physician" Jan 25, 2006.

31. University of Pittsburgh, Visiting Professor Feb 1, 2006: Endolymphatic Sac Tumor Lecture.
32. Vanderbilt University, Sisson Vail Meeting, Course Moderator and Panel Member, Feb 2006.
33. University of Missouri, Department of Neurosurgery, Department of Otolaryngology-Head and Neck Surgery, March 22, 2006 Visiting Professor.
34. CWRU Department of Genetics and Center for Human Genetics, Clinical Grand Rounds: "An update on hearing loss and cochlear implants" April 14, 2006.
35. University of Arkansas for Medical Sciences, Department of Otolaryngology- Head and Neck Surgery, Visiting Professor and Guest Instructor Temporal Bone CME course, April 21-22, 2006.
36. University of Marmara, Turkey. "Third Course in Harvard Application in Otolaryngology. Kusadasi May 17-21. Invited Speaker.
37. Case Neurosurgery Dept, Guest Instructor "Middle Fossa Exposure for skull base surgery", Saturday Aug, 19, 2006.
38. Cleveland Functional Electrical Stimulation Center Grand Rounds invited speaker "Electrical Stimulation of the Cochlea for Sensorineural hearing loss. Cleveland MetroHealth Medical Center, Aug 30, 2006.
39. Visiting Professor Vanderbilt Department of Otolaryngology-Head and Neck Surgery. "Temporal Bone Course and Ear Symposium", Nashville, Tenn., Guest Instructor, October 5-7, 2006.
40. Invited Panel Speaker "Otology and Neurotology Update" . Joint conference of Cleveland Hearing and Balance Center and Metro Health Otolaryngology Dept. of Otolaryngology. November 18, 2006.
41. Cochlear Implant Teaching Forum Hosted by Cochlear Americas. Speaker November 15, 2006.
42. Dept of Medicine, Case Medical School, Grand Rounds " Sensorineural hearing loss and the role of Cochlear implantation" Jan 9, 2007.
43. University Hospitals-Case Medical Center- System wide Grand Rounds- "Cochlear implantation for the management of hearing loss- What's new?. February 21, 2007.
44. Invited Speaker-Panel Member- 29<sup>th</sup> Annual Sisson-Vanderbilt International Workshop, Vail, Colorado, Feb 4-9, 2007.
45. Invited Moderator and Historian; Triological Society, Combined Sections Meeting: "Otology Icons of the 20<sup>th</sup> Century" Symposium to Honor Drs William House and John Shea Jr.; February 17, 2007, Marco Island, Florida.
46. Invited Speaker and Panel Member, University of Pittsburgh, Department of Otolaryngology Alumni Day/Update in Otology, March 16-17, 2007.
47. Guest Lecturer: EBME 507 Case Department of Biomedical Engineering, Neuro-prosthesis and Cochlear Implants, March 27, 2007.
48. Visiting Professor, University of Michigan Dept of Otolaryngology, Grand Rounds and Temporal bone course guest instructor. May 16-17, 2007.
49. Invited Panel Speaker and Panel Moderator: Glomus Jugulare Tumor Management. Politzer Society International Meeting, Cleveland Clinic, Cleveland Ohio, Oct 15, 2007.
50. Faculty and Organizing Committee: Professor Ugo Fisch-Storz Middle Ear Surgery Mini-Course, Politzer Society Meeting, Cleveland, Ohio, Oct 15, 2007.
51. Shambaugh/Girgus Visiting Professor, Chicago Laryngological and Otological Society, January 7, 2008.
52. Triological Society, Middle Section Meeting, Scientific Session Invited Moderator and Program Advisory Committee, Chicago, Jan 18, 2008.
53. Vanderbilt University, Sisson 30<sup>th</sup> Annual Winter Meeting, Invited Panelist for "Chronic ear diseases" and "Sensorineural hearing loss"., Vail, Colorado, Feb 10-12, 2008.
54. Case Western Reserve University; Fourth Annual Research Symposium of Dept Otolaryngology, "Of Mice and Men, not Guinea Pigs: Insights into Meniere's Disease Research", May 10, 2008.
55. Cochlear Implant 2008 Presenter and Invited participant in Cochlear Corp Hybrid electrode planning meeting and round-table, San Diego, California, April 11-13, 2008.
56. University of Zurich, Department of Anatomy and Ugo Fisch International Microsurgery Foundation. Invited speaker and guest tutor: Seventeenth Practical course in microsurgery and

otologic surgery, June 23-29, 2008.

57. Royal College of Surgeons (Ireland) Joint Anglo-American Otolaryngology Societies Meeting. Invited Speaker "Otology in the fast lane" and Moderator: Otology free paper plenary session. July 6-8, Dublin, Ireland.
58. Anspach "Approaches to the Skull Base" Surgery course. Invited Lecturer July 27-29, Palm Beach Gardens, Florida

## **BIBLIOGRAPHY:**

### **PEER-REVIEWED JOURNAL PUBLICATIONS**

1. Arend LJ, Bakris GL, Burnett JC, **Megerian CA**, Spielman WS.: Role for Intrarenal Adenosine in the Renal Hemodynamic Response to Contrast Media. *Journal of Laboratory and Clinical Medicine* 1987; 110:406-411.
2. Cozzi LM, **Megerian CA**, Duque C, Barcello M, Abdul-Karim FW, Arnold JE, Maniglia AJ: Pulmonary Sequelae of Intraparenchymal Bismuth Subgallate. *Laryngoscope* 1992; Vol. 102, No. 6:597-599.
3. **Megerian CA**, Arnold JE, Berger M: Angioedema: Five Years Experience with a Review of the Disorder's Presentation and Treatment. *Laryngoscope* 1992; Vol. 102, No.3:256-260. (Reprinted in American Academy of Otolaryngology-HNS Home Study Course: Section #2 "Infectious and Inflammatory Diseases" November 1993- January 1994.)
4. Maniglia AJ, Sprecher RC, **Megerian CA**, Lanzieri C: The Inferior Mastoidectomy - Hypotympanic Approach for Surgical Removal of Glomus Jugulare Tumors - An Anatomical and Radiologic Study Emphasizing Distances Between Critical Structures. *Laryngoscope* 1992; Vol. 102, No.4:407-414.
5. **Megerian CA**, Zaidi SIA, Sprecher RC, Setrakian S, Stepnick DW, Oleinick ND, Mukhtar H: Photodynamic Therapy of Human Squamous Cell Carcinoma in Vitro and in Xenografts in Nude Mice. *Laryngoscope* 1993; Vol. 103, No.9: 967-975.
6. **Megerian CA**, Maniglia AJ: Parotidectomy: A Ten Year Experience with Fine Needle Aspiration and Frozen Section Biopsy Correlation. *Ear Nose and Throat Journal* 1994; Vol. 70, No. 9:300-303.
7. Maniglia AJ, **Megerian CA**: Medially Based Myocutaneous Upper Eyelid Flap for Lateral Nasal Defect Reconstruction. *American Journal of Otolaryngology*, Vol 17, No. 2 (March-April), 118-121, 1996.
8. **Megerian CA**, BuSaba NY, McKenna MJ, Ojemann RG: Post-microvascular Decompression Teflon Granuloma Presenting with an Enlarging Gadolinium Enhancing Posterior Fossa Mass and Progressive Hearing Loss. *American Journal of Otology* 1995; 16:783-786. \*(Abstracted in Audio-Digest, Vol 27:18; Sept. 1994
9. **Megerian CA**, McKenna MJ, Nadol JB: Non-Paraganglioma Jugular Foramen Lesions Masquerading as Glomus Jugulare Tumors. *American Journal of Otology* 1995; 16, 94-98.
10. Werning JW, Stepnick DW, **Megerian CA**, Antunez AR, Zaidi SIA: Metoclopramide enhances the effect of photodynamic therapy on xenografted human squamous cell carcinoma of the head and neck. *Archives of Otolaryngology-Head and Neck Surgery*; 121:783-789, 1995.
11. **Megerian CA**, Sofferman RA, McKenna MJ, Eavey R, Nadol JB: Fibrous Dysplasia of the Temporal Bone: Ten New Cases Demonstrating the Spectrum of Otologic Sequelae: *American Journal of Otology* 1995; 16:408-419.
12. **Megerian CA**, Burkard RF, Ravicz ME: A Method for Determining Interaural Attenuation in Animal Models of Asymmetric Hearing Loss. *Audiology and Neuro-Otology* 1996; 1:214-219.
13. **Megerian CA**, McKenna MJ: Complications related to tight mastoid dressings (letter). *Journal of Laryngology and Otology* 1994; Vol. 108:458.
14. **Megerian CA**, McKenna MJ, Nuss RC, Maniglia AJ, Pilch B, Ojemann RG, Nadol JB: Endolymphatic sac tumors: Histologic confirmation, Clinical Characterization, and Implication in von Hippel-Lindau Disease. *Laryngoscope* 1995; 105:801-808. \*(abstracted in the Yearbook of Otolaryngology-Head and Neck Surgery 1996, and the Yearbook of Neuroradiology - 1996)
15. Brown E, **Megerian CA**, McKenna MJ, Weber A: Fibrous dysplasia of the temporal bone: A

- pictorial essay. American Journal of Roentgenology, 1995; 164:679-682.
16. **Megerian CA**, McKenna MJ, Ojemann RG: Delayed Facial Paralysis after Acoustic Neuroma Surgery: Factors Influencing Recovery. American Journal of Otolaryngology 17:630-633, 1996
  17. Cheney ML, **Megerian CA**, Brown MT, McKenna MJ, Nadol JB: The Use of the Temporoparietal Fascial Flap in Temporal Bone Reconstruction. American Journal of Otolaryngology 17:137-142; 1996. \*(abstracted in the Yearbook of Otolaryngology-Head and Neck Surgery, 1997)
  18. Cheney ML, McKenna MJ, **Megerian CA**, Ojemann RG: Early temporalis muscle transposition for the management of facial paralysis. Laryngoscope 1995; 9:993-1000.
  19. Cheney ML, **Megerian CA**, Brown MT, McKenna MJ: Mastoid Obliteration and lining using the Temporoparietal Fascial Flap. Laryngoscope 1995; 9:1010-1013. \*(Abstracted in the Yearbook of Otolaryngology-Head and Neck surgery, 1996).
  20. Teknos T, **Megerian CA**, Rauch SD: Hemangioma of the Middle Ear. Otolaryngology-Head and Neck Surgery 1997; 117:573-4.
  21. **Megerian CA**, Chiocca EA, McKenna MJ, Harsh GF, Ojemann RG: The Subtemporal - Transpetrous Approach for Excision of Petro- Clival Tumors. American Journal of Otolaryngology 17:773-779, 1996.
  22. Cheney ML, McKenna MJ, **Megerian CA**, West CA; Trigeminal neoneurotization of the paralyzed face. Annals of Otolaryngology, Rhinology, and Laryngology 106:733-738, 1997.
  23. **Megerian CA**: Aggressive papillary adenomas of the temporal bone likely originate within the endolymphatic sac or duct. (Letter). Annals of Otolaryngology, Rhinology, and Laryngology 1996; 105:83-84.
  24. **Megerian CA**, Pilch BZ, Bahn A, McKenna MJ: Differential expression of Transthyretin in papillary tumors of the endolymphatic sac and choroid plexus. Laryngoscope 1997; 107:216-221.
  25. Hung TY, Litofsky NS, Smith TW, **Megerian CA**: Ganglionic hamartoma of the intracanalicular acoustic nerve causing sensorineural hearing loss. American Journal of Otolaryngology 1997; 18:498-500.
  26. Mukherji SK, Albernaz V, Castillo M, Lo W, **Megerian CA**, Gaffey M, Nemzek W, Carmody RF, Lewin J, Lanzierri C, Talbot M, Meyer J, Weissman J, Pillsbury R: Papillary endolymphatic sac tumors: CT, MR, and Angiographic Findings in 20 cases. Radiology 1997; 202:801-808.
  27. Zbar RIS, **Megerian CA**, Khan A, Rubinstein JT: An invisible culprit: Intralabyrinthine schwannomas which do not appear on enhanced MRI scanning. Annals of Otolaryngology, Rhinology, and Laryngology 106;739-742, 1997.
  28. **Megerian CA**: Congenital aural atresia and microtia: Otolologic considerations. Facial Plastic Surgery Clinics of North America 1997;5:349-353.
  29. Teknos TN, Joseph MP, **Megerian CA**, Friedlander RM, Weber AL : Fatal carotid artery hemorrhage following temporal bone fracture. American Journal of Otolaryngology 18;338-340, 1997.
  30. Litofsky NS, Smith TW, **Megerian CA**: Merkel Cell Carcinoma of the External Auditory Canal and Middle Ear invading the Middle Cranial Fossa. American Journal of Otolaryngology Vol 19, No 5 (Sept-Oct) 1998: pp 330-334.
  31. O'Sullivan KL, Pap SA, **Megerian CA**, Li Y, Sheffler LR, Smith TW, Lawrence WT: Improved axon diameter and myelin sheath thickness in Temporal Bone Facial Nerve Cable Graft Repair using a Vascularized Temporo-Parietal Fascial Flap. Annals of Plastic Surgery 1998, 40: 478-485.
  32. Litofsky NS and **Megerian CA**: Facial canal decompression leads to recovery of combined facial nerve paresis and trigeminal sensory neuropathy: Case Report: Surgical Neurology 1999; 51:198-201.
  33. Dahiya R, Keller J, Litofsky NS, Bankey P, Bonasser L, **Megerian CA**: Temporal Bone Fractures: Otic capsule sparing vs. otic capsule violating: Clinical and radiographic consideration. Journal of Trauma 1999; 47:1079-1083.
  34. **Megerian CA**, Weitzner B, Dore B, Bonasser L: Minimally invasive auricular cartilage harvesting technique: A porcine study. Tissue Engineering 2000, 6:69-74.
  35. **Megerian CA**, Reilly J, O'Connell F, Heard SO: Outpatient Tympanomastoidectomy: Factors Affecting Hospital Admission. Archives of Otolaryngology 2000;126:1345-1348. (Abstracted in

JAMA 2001;285:999)

36. Meyer S., **Megerian CA**: Perceived benefits resulting from stapes surgery for otosclerosis. *Ear, Nose, and Throat Journal* 2000;79:846-856.
37. **Megerian CA**: Pediatric Tympanoplasty: Clinical Challenges in Otolaryngology. *Archives of Otolaryngology* 2000;126:1038-1041.
38. Dahiya R, Cleveland S, **Megerian CA**: Spondyloepiphyseal Dysplasia Congenita Associated with Conductive Hearing Loss. *Ear, Nose, & Throat Journal* 2000; 79:178-182.
39. Lustig LR, Arts HA, Brackmann DE, Malony T, **Megerian CA**, Moore GF, Moore KM, Potsic W, Rubenstein JT, Syms CA, Vernick PA, Wackym PA, Niparko J: Hearing Rehabilitation Using the BAHA-Bone Anchored Hearing Aid; Results in 35 patients: *Otology & Neurotology* 22:328-324, 2001.
40. **Megerian CA**, Hadlock TA: Case records of the Massachusetts General Hospital Case 40-2001- An Eight-Year-Old Boy with Fever, Headache, and Vertigo Two Days after Aural Trauma. *New England Journal of Medicine* 2001 345: 1901-1907.
41. **Megerian CA**, Haynes DS, Poe DS, Choo DI, Keriakas TJ, Glasscock ME III: Hearing preservation surgery for small endolymphatic sac tumors in the von Hippel-Lindau patient. *Otology and Neurotology* 23:378-387, 2002.
42. **Megerian CA**, Hanekamp JS, Cosenza MJ, Litofsky NS,: Selective retrosigmoid Vestibular neurectomy without internal auditory canal drillout: An anatomic study. *Otology & Neurotology* 23:218-223, 2002.
43. Hott ME, Graham M, Bonassar LJ, **Megerian CA**: Correlation between Hearing loss and Scala Media Area in Guinea Pigs with Long-Standing Endolymphatic Hydrops. *Otology and Neurotology* 24:64-72; 2003.
44. **Megerian CA**: Invited comment to: Backous DD et al.: Effects of Hyperbaric Exposure on the Integrity of the Internal Components of Commercially Available Cochlear Implant Systems. *Otology and Neurotology* 23:467; 2002.
45. Brown NE, O'Brien DA, **Megerian CA**: Hepatocellular Carcinoma Metastatic to the Temporal Bone in the Liver Transplant Recipient. *Otolaryngology-Head and Neck Surgery* 130:370-371; 2004.
46. **Megerian CA**, Cosenza M, Meyer S: Revision Tympanomastoidectomy. *Ear Nose and Throat Journal* 81:717-20, 722, 725-6 passim, 2002.
47. Poissant SF, **Megerian CA**, Hume D: Cochlear Implantation in a Patient with Neurofibromatosis Type 1 (NF1) and Profound Hearing loss: Evidence to support a cochlear site of lesion. *Otology and Neurotology* 24: 745-756, 2003.
48. Cmejrek, RC, **Megerian CA**: Meniere's syndrome secondary to temporal bone lesions obstructing the endolymphatic sac and duct. Middle Section Triologic Meeting, 2003. *Ear Nose Throat J.* 2004 Nov;83(11):753-6
49. Bambakidis NC, **Megerian CA**, Ratcheson RA: Differential Grade of Endolymphatic Sac Tumor Extension by virtue of von Hippel-Lindau Disease Status. *Otology and Neurotology* 25:773-781, 2004.
50. Hott ME, **Megerian CA**, Beane R, Bonassar LJ: Fabrication of Tissue Engineered Tympanic Membrane Patches Using Computer-Aided Design and Injection Molding. *Laryngoscope*, 114:1290-1295, 2004.
51. Brown NE, Grundfast KM, Jabre A, **Megerian CA**, O'Malley BW, Rosenberg SI: Diagnosis and Management of Spontaneous Cerebrospinal Fluid-Middle Ear Effusion and Otorrhea. *Laryngoscope*, 114: 800-805, 2004.
52. Lim J, Lange M, **Megerian, CA**: Serum Antidiuretic Hormone levels in Patients with Unilateral Meniere's Disease. *Laryngoscope*, 113:1321-1321, 2003.
53. **Megerian CA**: Update on Cochlear Implantation. *Otolaryngology-Head and Neck Surgery Select*, November 2002, Volume 10, (6) 1-6.
54. Gutmann, M, **Megerian CA**, Houser S: Evaluation and Management of Tinnitus. *Timely Topics in Medicine*. (Published online, [www.prous.com](http://www.prous.com) ) March, 2003.
55. Mariano CG, Vecchiotti MA, Semaan MT, Lewin JS, **Megerian CA**: Endolymphatic duct violation during retrosigmoid dissection of the internal auditory canal: A human temporal bone-

- radiographic study. *Laryngoscope* 2004 Nov;114(11):1936-40.
56. Tambyraja R, Gutman MA, **Megerian CA**: Complications of cochlear implants: utility of federal database in systematic analysis. *Arch Otolaryngol Head Neck Surg.* 2005, 131:245-50.
  57. Trang TT, **Megerian CA**: I Cannot Smile or Wink Anymore: Facial Nerve Weakness After Acoustic Neuroma Surgery: *Current Surgery.* 2005, 62: 156-61.
  58. Bambakidis NC, **Megerian CA**, Ratcheson RA: Endolymphatic Sac Tumor Metastatic to the Spine: *Journal of Neurosurgery: Spine*, 2005; 3: 68-770.
  59. **Megerian CA**: Diameter of the Cochlear Nerve in Endolymphatic Hydrops: Implications for the Etiology of Hearing loss in Meniere's Disease. *Laryngoscope*, 2005, 115:1525-1535.
  60. Sheykhleslami K, **Megerian CA**, Arnold JE, Kaga K.: Vestibular-Evoked Myogenic Potentials in Infancy and Early Childhood. *Laryngoscope* 2005, 115:1440-1444.
  61. Semaan MT, Alagramam K, **Megerian CA**. The basic science of Meniere's disease. *Current Opinion in Otolaryngology-Head and Neck Surgery* 2005, 13:301-307.
  62. Hall KL, Pitts D, Anne S, Semaan, M, Alagramam KN, **Megerian CA**: Optimization of RNA Detection from Archival Guinea Pig Temporal Bone Specimens. *Otology and Neurotology* 28:116-123, 2007.
  63. Willen S, Einstein DB, Macuinas RJ, **Megerian CA**: Treatment of Glomus Jugulare Tumors in Patients with Advanced Age: Planned limited surgical resection followed by staged gamma knife radiosurgery. *Otology and Neurotology* 2005; 26:1229-1234.
  64. Zurcher M, Trang T, Young DJ, Semaan M, **Megerian CA**, Ko WH: Development of Middle ear Acoustic Sensor for Fully Implantable Cochlear Prosthesis. *Proceedings of the International Conf Networked Sensing Systems.* Chicago May 31-June 2, 2006.
  65. Weber D, Semaan, M, Wasman JK, Beane R, Bonassar LJ, **Megerian CA**: Tissue Engineered Ear-drum patch: Animal studies. *Laryngoscope*, 116:700-704, 2006.
  66. Drew B, Semaan MT, Hsu J, **Megerian CA**: The status of the endolymphatic duct following middle fossa dissection for acoustic tumor removal: A human temporal bone radiographic study. *Laryngoscope*, 2006 Mar;116(3):370-4.
  67. Anne S, Kisley, L, Semaan MT, Leahey P, Alagramam K, **Megerian CA**: Molecular changes associated with the Endolymphatic hydrops model". *Otology and Neurotology* 2007 Sep;28(6):834-41.
  68. Semaan, M and **Megerian, CA**: Pathophysiology of Cholesteatoma. *Otolaryngology Clinics of North American.* 39:1143-1159, 2006.
  69. Zurcher MA, Young DJ, Semaan M, **Megerian CA**, Ko WH: Effect of Incus Removal on Middle Ear Acoustic Sensor for a Fully Implantable Cochlear Prosthesis. *Proceedings of the Engineering in Medicine and Biology Conf.* New York, Conf Proc IEEE Eng Med Biol Soc. 2006;1:539-42.
  70. Lee RG, Weber DE, Ness AB, Wasman JK, **Megerian CA**: Inflammatory pseudotumor of the middle ear masquerading as Bell's palsy. *American Journal of Otolaryngology; Am J Otolaryngol.* 2007 Nov-Dec;28(6):423-6.
  71. **Megerian CA** and Semaan MT: "Evaluation and Management of Endolymphatic Sac and Duct Tumors". *Otolaryngology Clinics of North America*; 2007 Jun;40(3):463-78.
  72. **Megerian CA**, Semaan MT, Aftab S, K, Kisley L, Zheng QY, Pawlowski KS, Wright CS, Alagramam, KA. A Mouse Model with Pathological Correlates of Endolymphatic hydrops. *Hearing Research* 2008 Mar;237(1-2):90-105. Epub 2008 Jan 15.
  73. Torres JI, **Megerian CA**: Re: Re: Cochlear implantation for hearing loss associated with bilateral endolymphatic sac tumors in von Hippel-Lindau disease. *Otol Neurotol.* 2007 Dec;28(8):1159
  74. Johnson F, Semaan, M and **Megerian CA**: Temporal Bone Fractures: Evaluation and Management in the Modern Era. *Otolaryngology Clinics of North America* (in press).
  75. Huang P, Guo J, **Megerian CA**, Young DJ, Ko WH: A Laboratory Study on Capacitive Displacement Sensor as an Implant Microphone in a Totally Implantable Cochlear Implant Hearing Aid System. *Proceedings of Engineering in Medicine and Biology Conference, Lyons France ; Conf Proc IEEE Eng Med Biol Soc.* 2007;2007:5692-5.
  76. Ko WH, Huang P, Guo J, Zhang R, Young D, **Megerian CA**: MEMS Acoustic Sensor for Totally Implantable Hearing Systems. *3rd IEEE-NIH Life Science Systems and Applications (LISSA 2007)*

workshop, NIH, Bethesda, Maryland Nov. 8-9, 2007. (to be published in Proceedings).

77. Megerian CA: Miracle Man of the Western Front: Dr. Varaztad H. Kazanjian, Pioneer Plastic Surgeon. Invited Book Review, Armenian Medical Review. (in press).
78. Miller J, Semaan MT, Einstein D, Maciunas R, **Megerian CA**: Radiosurgery for Glomus Tumors. Otolaryngology Clinics of North America (in press).
79. Bixenstine PJ, Maniglia M, Vasanji A, Alagramam K, **Megerian CA**. Spiral Ganglion Degeneration Patterns in Endolymphatic Hydrops, Laryngoscope (in press).
80. Sheykholeslami K, **Megerian CA**, Zheng QY: Vestibular Evoked Myogenic Potentials in the Neck Muscles of Normal Mice and Phex Mice with Spontaneous Endolymphatic Hydrops. Otolology and Neurotology (submitted).
81. Semaan, MT, **Megerian CA**: Current strategies for management of Glomus Tumors. Current Opinion in Otolaryngology and Head & Neck Surgery (In press).
82. Miller J, **Megerian, CA**, Enstein D, Maciunas R: Planned Limited Surgical Resection with Staged Gamma Knife Radiosurgery for Glomus Jugulare Tumors: Extended Follow-Up. Stereotactic and Functional Neurosurgery. (in press).

#### **PUBLISHED ABSTRACTS NOT IN MANUSCRIPT FORM:**

1. **Megerian CA**, Zaidi SIA, Bogdan CJ, Sprecher RC, Stepnick DW: Phthalocyanines: In Vivo Studies of Photodynamic Therapy of Human Squamous Cell Carcinoma of the Head and Neck (abstract). Proceedings of the Third International Conference on Head and Neck Cancer; San Francisco, California, July 1992.
2. Arnold JE, **Megerian CA**, Maniglia AJ: Parotidectomy Using a Facelift Incision: A Ten ear Experience (abstract). Proceedings of the 6th International Symposium of Facial Plastic Surgery, San Francisco. California, June 1993.
3. Werning JW, Zaidi SIA, **Megerian CA**, Stepnick DW, Maniglia AJ: 5-Fluorouracil and Cis-Platinin as Potentiators of Phthalocyanine Based Photodynamic Therapy of Xenografted Human Squamous Cell Carcinoma in the Nude Mouse. Proceedings of the Annual Conference of the American Society of Photobiology, Chicago, Illinois, June 1993. (abstract) Photochemistry and Photobiology 1993(suppl.);Vol. 57:98S.
4. **Megerian CA**, Burkard RF, Rauch SD: Low tone sensorineural hearing loss manifesting in rats with de-novo immune complex disease. Proceedings of the Nineteenth Midwinter meeting of the Association for Research in Otolaryngology, February, 1996.
5. **Megerian CA**, Nadol JB, Burgess BB: Selective loss of Type I spiral ganglion cells in the hydroptic guinea pig. Proceedings of the Nineteenth Midwinter Meeting of the Association for Research in Otolaryngology, February 1996.
6. Meyer SE, **Megerian CA**: The Effect of Stapes Surgery on high Frequency Hearing in Otolaryngology patients. Proceedings of the American Academy of Audiology 9th Annual Convention . April 17-20, 1997, Ft. Lauderdale, Florida.
7. Meyer SE, **Megerian CA**: Perceived Outcome After Stapedectomy for Otosclerosis: Proceedings of the American Academy of Audiology 10th Annual convention. April 2-5, 1998, Los Angeles, California.
8. Jyung R, **Megerian CA**, McKenna MJ: Facial paralysis secondary to perineural invasion of a local malignancy. Proceedings of the 7th Annual meeting of the North American Skull Base Society. June, 1996, San Diego, California.
9. Hung TY, **Megerian CA**: Cochlear expression of Heat Shock Protein-70 in rats with de- novo immune complex disease. Proceedings of the Eastern Section Meeting of the Triologic Society, Boston, January 1997.

#### **BOOK CHAPTERS**

1. **Megerian CA**, McKenna MJ, Montgomery WW: Surgery for Acoustic Neurinoma. In: Surgery of the Supper Respiratory System, 3rd edition. Montgomery, WW, (ed), Williams & Wilkins 1996.
2. **Megerian CA**, McKenna , Nadol JB: Management of Congenital Aural Atresia In: Facial Plastic and Reconstructive Surgery. Cheney ML (ed)., Williams and Wilkens, Baltimore, 1997.

3. Cheney ML, **Megerian CA**, McKenna MJ: Surgical Management of Facial Paralysis. In: Facial Plastics and Reconstructive Surgery. Cheney ML, (ed), Williams and Wilkens, Baltimore 1997.
4. **Megerian CA**, McKenna MJ, Cheney ML: Facial Paralysis: Physiology, Etiology and Principles of Repair. In: Facial Plastics and Reconstructive Surgery, Cheney ML, (ed), William and Wilkens, Baltimore 1997.
5. **Megerian CA**: Surgical Management of Vertigo and Meniere's disease.
6. In: The Evaluation and Treatment of Vertigo. Blanca P, (ed) Universidad del Valle, Santiago de Cali, Columbia, 434-467, 1999.
7. Cheney ML, **Megerian CA**: Facial Nerve Reanimation. In: The Ear: A Textbook of Otology. Canalis R, and Lambert P. (eds). Lippincott-Raven, Philadelphia. 2000, 751-772.
8. **Megerian CA**: "Otitis Externa" In: A Clinician's Guide to Diagnostic Testing. Khan F., et al. (eds). Lippincott Williams & Wilkens, Baltimore 2002, 353-354.
9. **Megerian CA**: Surgical considerations in cochlear implantation. In: Otolaryngology-Head & Neck surgery. Emedicine.com
10. **Megerian CA**: "Hearing loss" In: A Clinician's Guide to Diagnostic Testing.
11. Khan F, et al. (eds). Lippincott Williams & Wilkens, Baltimore 2002, 355-359.
12. **Megerian CA**: "Otitis Media" In: A Clinician's Guide to Diagnostic Testing.
13. Khan F, et al. (eds). Lippincott Williams & Wilkens, Baltimore 2002, 350-352.
14. **Megerian CA**: "Superior Semicircular Canal Dehiscence Syndrome" In: Surgery for Vestibular Disorders. Weber PC (editor). Thieme, New York and Stuttgart 2008, 99-106.
15. Lambert P, Mills J, **Megerian CA**: "Presbycusis and Presbyastasis" In: Ballanger's Otolaryngology-Head and Neck Surgery 17<sup>th</sup> ed. Wackym PA (Editor). Decker (in press)
16. **Megerian CA**, Bambakidis N: "Historical Perspectives on Surgery of the Cerebellopontine Angle" In: Surgery of the Cerebellopontine angle. Bambakidis N, Porter RW, Megerian CA, Spetzler RF (eds). Decker (in press)
17. Semaan MT, Bambakidis N, **Megerian CA**: "Temporal bone lesions affecting the Cerebellopontine angle" In: Surgery of the Cerebellopontine angle. Bambakidis N, Porter RW, Megerian CA, Spetzler RF (eds). Decker (in press).
18. Heddon C, Alagramam K, **Megerian CA**: Excitotoxicity and Meniere's Disease. In. Meniere's Disease, Spanish Academy of Otorhinolaryngology-Head and Neck Surgery. Lopez-Escamez, A (ed). (in press).

## **BOOKS**

1. Bambakidis N, **Megerian CA**, Spetzler RF (eds): "Surgery of the Cerebellopontine Angle". Book in preparation for Fall 2008 release. BC Decker, Hamilton, Ont.