

## Curriculum Vitae

### Alan W. Langman, M.D.

**Office Address:** Northwest Otolaryngology  
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**Place of Birth:** Philadelphia, PA

#### Education:

1978 - 1982 Hahnemann University School of Medicine  
Philadelphia, PA - M.D.

1974 - 1978 Temple University, Philadelphia, PA - A.B.  
Summa Cum Laude

1970 - 1974 Central High School Philadelphia, PA - B.A.

#### Post Graduate Training:

1989 - 1990 University of Michigan, Ann Arbor MI - **Fellow in  
Otology, Neurotology & Skull Base Surgery**

1983 - 1989 University of California San Francisco, San  
Francisco, CA - **Resident in Surgery and  
Otolaryngology - Head & Neck Surgery**

1982 - 1983 Brown University, Rhode Island Hospital,  
Providence, RI - **Intern in Medicine**

#### Academic & Hospital Appointments:

2000 – 2015	Swedish Hospital, Seattle, WA
2000	Clinical Instructor in Otolaryngology, Univ. WA Seattle, WA
1999	Northwest Hospital, Seattle, WA
1998 - 1999	Einstein Hospital, Philadelphia, PA
1998 - 1999	St. Christopher's Hospital for Children, Phila., PA
1997 - 1999	MCP/Hahnemann Hospitals, Phila., PA
1997 - 1999	Associate Professor Otolaryngology, MCP

1994	Hahnemann University, Philadelphia, PA Affiliate, Virginia Merrill Bloedel Research Center, Seattle, WA
1991	Clinical Assistant Professor - Otolaryngology, University of WA, Seattle, WA
1990	Clinical Instructor in Otolaryngology, Univ. WA Seattle, WA
1990	Virginia Mason Hospital, Seattle, WA
1989	Consultant Otolologist, VA Hospital, Ann Arbor, MI

**Certification & Licensure:**

1997	Commonwealth of Pennsylvania
1990	State of Washington
1989	State of Michigan
1989	American Board of Otolaryngology
1983	State of California

**Honors & Awards:**

2013 – 2020	Top Doctors – Castle Connolly
2009 - 2012	Best Doctors in America - Best Doctors, Inc.
2007	Puget Sound Best Doctors (as chosen by their peers) - Puget Sound Consumers' Checkbook
1997	Honor Award - American Academy of Otolaryngology - Head & Neck Surgery
1987	Third Place Award - Bay Are Research Seminar
1982	Alexander Ulin Award (Excellence in Surgery), Hahnemann University
1982	Honors in Surgery, Hahnemann University
1982	Honors in Medicine, Hahnemann University
1978	Phi Beta Kappa, Temple University

**Scientific Society Membership:**

1998	Otosclerosis Study Club
1998	Pennsylvania Academy of Otolaryngology - Head & Neck Surgery
1995	Association for Research in Otolaryngology
1995	North American Skull Base Society
1994	Seattle Surgical Society
1991	American Neurotology Society
1991	Pacific Coast Oto-Ophthalmology Society
1990	NW Academy of Otolaryngology

1985 American Academy of Otolaryngology - Head & Neck Surgery

**Committee & Administrative Service:**

2004 - 2007 Member, Geriatric Otolaryngology Committee  
1999 - 2004 Member, Skull Base Committee  
1999 - 2001 Member, Subcommittee on Implantable Hearing Devices  
1997 - Present Imaging Case Editor, Otology & Neurotology  
1997 - 1999 Member, Equilibrium Subcommittee  
1996 - Present Editorial Review panel, Otology & Neurotology  
1995 - 1996 Board of Directors, Seattle Oral School for Hearing-Impaired Children  
1995 - 1998 Member, Subcommittee on Implantable Hearing Devices  
1994 Board of Governor's Legislative Representative  
1993 - 1996 Editorial Review panel, Archives of Otolaryngology Head & Neck Surgery  
1993 Editorial Review panel, Aviation, Space & Environmental Medicine  
1990 - 1996 Member, IFOS Committee on Prevention of Hearing Impairment

**Research:**

2016 Chair – Task Force, Creating Healthcare Excellence through Education and Research (CHEER)  
2005 – 2015 Co-Investigator CHEER Network  
1998 Principal Investigator, Otitis Externa Treatment Satisfaction Study  
1996 Principal Investigator, Clarion Multi-Strategy Cochlear Implant Adult Study  
1996 Principal Investigator, Pediatric Clinical Trial of Clarion Multi-Strategy Cochlear Implant  
  
1995 - 1996 Principal Investigator, Vestibular Hair Cell Regeneration, \$15,000 Grant, William Reed Fund For Research in Otolaryngology  
1995 Co-Investigator, Health Related Quality of Life and Cost Utility of Cochlear Implants  
1990 - 1993 Principal Investigator, Cochlear Implant in Severely Hearing-Impaired Adult Clinical Study

**Consultant:**

1996 - 2001 Food & Drug Administration  
1996 - 2016 Attorney General's Office, Washington State

**Presentations:**

2017 **Temporal Bone Trauma & Temporal Bone CSF Leaks** – Temporal Bone Course Guest Instructor, University of Michigan, Ann Arbor, MI

2017 **Meniere's Disease** – Grand Rounds, University of Michigan, Ann Arbor, MI

2003 **Intracranial Complications of Otitis Media**, Cherry Blossom Conference, Washington, DC

2002 **Management of CSF Leaks**, American Academy of Otolaryngology Annual Meeting, San Diego, CA

1998 **Traumatic Brain Injury & Balance Disorders**, Brian Injury Association 12<sup>th</sup> Annual Conference, Palm Beach, FL

**Cochlear Implants**, PA Academy of Otolaryngology - Head & Neck Surgery, Valley Forge, PA

1997 **Balance Disorders & Traumatic Brian Injury**, Brian Injury Association 11<sup>th</sup> Annual Conference, San Francisco, CA

**Accuracy of Fast Spin Echo MRI in the Diagnosis of Vestibular Schwannoma**, Triologic Society - Western Section, Tucson, AZ

1996 **Vestibular Ablation in the Older Patient**, American Academy of Otolaryngology - Head & Neck Surgery, Washington, DC

**Combined Mastoid/Middle Cranial Fossa Repair Of Mastoid Encephalocele**, Second International Skull Base Congress, San Diego, CA

**Ear Candles - Safety & Efficacy**, Triologic Society - Western Section, Marina Del Ray, CA

1995 **Accuracy of High Resolution Computed Tomography in Cochlear Implantation**, Triologic Society - Western Section, Scottsdale, AZ

1994 **The Use of Botulinum Toxin to Prevent Facial Nerve Stimulation Following Cochlear Implantation**, International Cochlear Implant Speech & Hearing Symposium, Melbourne,

Australia

- 1993 **The Effect of Vestibular Rehabilitation on Postoperative Dysequilibrium Following Transmastoid Labyrinthectomy**, American Otological Society, Palm Beach, FL
- 1993 **Surgery for Vertigo: Transmastoid Labyrinthectomy or Translabyrinthine Vestibular Nerve Section**, Pacific Coast Oto-Ophthalmology Society, Portland, OR
- 1992 **Surgery for Vertigo in the Non-serviceable Hearing Ear: Transmastoid Labyrinthectomy or Translabyrinthine Vestibular Nerve Section**, Triologic Society - Western Section, Seattle, WA
- 1992 **Invasive Papilloma of the Jugular Foramen**, American Academy of Otolaryngology - Head & Neck Surgery, Washington, DC, Poster Presentation
- 1991 **Revision Stapedectomy**, Triologic Society - Western Section, La Quinta, CA
- 1991 **Spontaneous Posterior Fossa Encephalocele**, Pacific Coast Oto-Ophthalmology Society, Monterey, CA
- 1990 **The Use of Tissue-Integrated Protheses in the Rehabilitation of Aural Atresia**, American Neuro-Otology Society, Wailaloa, HI
- 1990 **Near Total and Subtotal Resection of Acoustic Neuromas: A Preliminary Report**, American Neuro-Otology Society, Palm Beach, FL
- 1989 **Titration Streptomycin Therapy for Bilateral Meniere's Disease: Follow-Up Report**, American Otologic Society, Palm Beach, FL
- 1989 **Stapedectomy: Long Term Hearing Results**, Triologic Society - Western Section, Monterey, CA
- 1989 **Chondrosarcoma of the Temporal Bone: Advances in Treatment**, American Academy of Otolaryngology - Head & Neck Surgery, New Orleans, LA, Poster Presentation
- 1988 **The Prognostic Value of Cerebral Spinal Fluid Analysis in Rhinocerebral Mucormycosis**, American Academy of Otolaryngology - Head & Neck Surgery, New Orleans, LA, Poster Presentation
- 1988 **The Endoscopic Teflon Keel for Posterior and Total Glottic Stenosis**, Triologic Society - Western Section, Laguna Niguel, CA
- 1988 **Internal Auditory Canal Meningioma**, American Academy of Otolaryngology - Head &

- 1988 Neck Surgery, Washington, DC, Poster Presentation  
**Radiologic Assessment of Carotid Artery Involvement by Tumor: Correlation of MRI, US and CT with Surgical Findings**, Second Boston, MA
- 1987 **Ewing's Sarcoma of the Mandible**, American Academy of Otolaryngology - Head & Neck Surgery, Chicago, IL, Poster Presentation  
**Radiologic Assessment of Carotid Artery Involvement by Tumor: Preoperative Comparison of CT, MRI and US**, Second International Head & Neck Oncology Conference, Washington, DC  
**Radiologic Assessment of Carotid Artery Involvement by Tumor: Preoperative Comparison of CT, MRI and US**, Bay Area Research Seminar, Oakland, CA

**Courses & Regional Presentations:**

- 2001 **Temporal Bone Dissection**, Director, Northwest Hospital, Seattle, WA
- 2000 - 2002 **Temporal Bone Surgical Dissection Course**, Instructor, University of Washington, Seattle, WA
- 1999 **Temporal Bone Microanatomy & Hands-On Workshop**, Guest Faculty, Allegheny General Hospital, Pittsburg, PA  
**Temporal Bone Surgical Dissection Course**, Instructor, Temple University, Philadelphia, PA
- 1998 **Temporal Bone Microanatomy & Hands-On Workshop**, Guest Faculty, Allegheny General Hospital, Pittsburg, PA
- 1997 **Occupational Hearing Loss**, AUHS School of Public Health
- 1996 **Evaluation of Dizziness: Vestibular Testing**, Vestibular Study Group, Seattle, WA
- 1995 **Noise-Induced Hearing Loss**, American College of Environmental Science, Seattle, WA  
**Otologic Update**, Northern California Kaiser Otolaryngology - Head & Neck Surgery Meeting
- 1994 **The Diagnosis and Treatment of Dizziness Following Head Injury**, Washington State Head Injury Conference, Seattle, WA

- 1993 **Cochlear Implants**, Washington Speech and Hearing Association Convention, Seattle, WA  
**Profound Sensorineural Hearing Loss with Delayed Onset of Vertigo**, University of Washington Alumni Day, Seattle, WA
- 1992 **Surgery for Vertigo in the Ear with Non-Serviceable Hearing: Transmastoid Labyrinthectomy or Translabyrinthine Vestibular Nerve Section**, University of Washington Alumni Day, Seattle, WA  
**Integrated Approach to the Dizzy Patient**, Program Director, Seattle, WA
- 1991 **Acoustic Neuroma: Microsurgical Results**, Radiosurgery Update, Seattle, WA  
**Acoustic Neuroma: Natural History and Indications for Surgery**, Radiosurgery Update, Seattle, WA
- 1990 - 1994 **Temporal Bone Surgical Dissection Course**, Instructor, University of Washington, Seattle, WA
- 1989 - 1990 **Temporal Bone Surgical Dissection Course**, Instructor, University of Michigan, Ann Arbor, MI
- 1987 **Temporal Bone Trauma**, Update in Otology, San Francisco, CA

**Panel Discussions:**

- 1996 **Cochlear Implant Panel**, American Academy of Otolaryngology Annual Meeting, Washington, DC
- 1995 **Otology Panel**, University of Washington Alumni Day, Seattle, WA
- 1993 **Controversies in the Management of Facial Nerve Disorder**, Pacific Coast Oto-Ophthalmological Society, Portland, OR
- 1992 **Otology Panel**, Pacific Coast Oto-Ophthalmological Society, Kona, HI
- 1990 **Middle Ear Reconstruction**, Pacific Coast Oto-Ophthalmological Society, Vancouver, BC

**Publications:**

1. **Langman AW**, Dalton DR: Bromohydrins from Alkenes and N-Bromosuccinimide in DMSO. *Organic Synthesis*, 59: 16-20, 1979 [original work]
2. Kumarshiro R, Montgomery O, **Langman AW**, et al: The Preventive effect of Low Dose Aspirin in the Development of Stress Ulcer. *Am Surg*, 49:423-27, 1983

[original work]

3. **Langman AW**, Kumarshiro R, Matsumoto T: Inhibition of Stress Ulcer Formation by Aminophylline in Rats. *Am Surg*, 49:428-31, 1983 [original work]
4. **Langman AW**, Kaplan MJ: Hodgkin's Disease and Tonsillectomy. *Otolaryngol Clin North Am*, 20:399-404, 1987 [invited review]
5. **Langman AW**, Kaplan MJ: Ewing's Sarcoma of the Mandible. *Otolaryngology Head Neck Surg*, 100:74-77, 1989 [case report]
6. Gooding GAW, **Langman AW**, Dillon WP, et al: Sonographic Detection of Malignant Carotid Artery Invasion. *Radiology*, 171:435-38, 1989 [original work]
7. **Langman AW**, Kaplan MJ, Dillon WP, et al: Radiologic Assessment of Carotid Artery Involvement by Tumor: Correlation of Magnetic Resonance Imaging, Ultrasound and Computed Tomography with Surgical Findings. *Head Neck Surg*, 11:443-49, 1989 [original work]\*
8. **Langman AW**, Lee KC, Dedo HH: The Endoscopic Keel for Posterior and Total Glottic Stenosis. *Laryngoscope*, 99:571-77, 1989 [original work]
9. **Langman AW**, Kemink JL, Graham MD: Titration Streptomycin Therapy for Bilateral Meniere's Disease. *TransAm Otol Soc*, 78:109, 1990 [original work]
10. **Langman AW**, Jackler RK: Meningioma of the Internal Auditory Canal. *Am J Otol*, 11(3):201-04, 1990 [case report]
11. **Langman AW**, Kenimk JL, Graham MD: Titration Streptomycin Therapy for Bilateral Meniere's Disease: Follow-Up Report. *Ann Otolology, Rhinol & Laryngol*, 99(11):923-26, 1990 [original work]
12. Kemink JL, **Langman AW**, Niparko JK, Graham MD: Operative Management of Acoustic Neuroma: The Priority of Neurologic Function Over Complete Resection. *Otolaryngology Head Neck Surg*, 104(1):96-99, 1991 [original work]\*
13. Kemink JL, Niparko JK, **Langman AW**: Retrolabyriththine Vestibular Nerve Section. *J Oper Tech Otolaryngology Head Neck Surg*, 2(1):45-46, 1991 [invited review]
14. **Langman AW**, Kenimk JL: Titration Streptomycin Therapy. *J Oper Tech Otolaryngology Head Neck Surg*, 2(1):45-46, 1991 [invited review]
15. Kemink JL, Telian SA, El-Kashlan H, **Langman AW**: Retrolabyrinthine Vestibular Nerve Section: Efficacy in Disorders Other than Meniere's Disease. *Laryngoscope*, 101(5):523-28, 1991 [original work]



16. **Langman AW**, Jackler RK, Sooy FA: Stapedectomy: Long Term Hearing Results. *Laryngoscope*, 101(8):820-14, 1991 [original work]\*
17. **Langman AW**, Chu FWK, Lindeman RC: Spontaneous Posterior Fossa Cerebrospinal Fluid Leak. *Otolaryngology Head Neck Surg*, 108:192-95, 1993 [case report]
18. **Langman AW**: Aminoglycoside Therapy for the Treatment of Vertigo. *Insights In Otolaryngology*, 8(2):1-8, 1993 [invited review]
19. Niparko JK, **Langman AW**, Kemink JL: The Management of Aural Atresia with the Use of Tissue-Integrated Prosthesis. *American J Otol*, 14(4):343-48, 1993 [original work]
20. **Langman AW**, Lindeman RC: Revision Stapedectomy, *Laryngoscope*, 103:954-58, 1993 [original work]
21. **Langman AW**, Lindeman RC: Surgery for Vertigo in the Non-Serviceable Hearing Ear: Transmastoid Labyrinthectomy or Translabyrinthine Vestibular Nerve Section. *Laryngoscope*, 103:1321-25, 1993 [original work]\*
22. **Langman AW**: Neomycin Ototoxicity. *Otolaryngology Head Neck Surg*, 110:441-44, 1994 [case report]
23. Souliere CR, **Langman AW**, Quigley SM: Cochlear Implants in Children. *Otolaryngol Clin North Am*, 27(3):533-56, 1994 [invited review]
24. **Langman AW**, Lindeman RC: Profound Sensorineural Hearing Loss with Delayed Onset Vertigo. *Otolaryngol Head Neck Surg*, 112:540-43, 1995 [original work]\*
25. Seely DR, **Langman AW**: Ear Candles (letter). *Arch Otolaryngol Head Neck Surg*, 121(9):1068, 1995
26. **Langman AW**, Quigley SM, Heffernan JT, Brazil C: Use of Botulinum Toxin to Prevent Facial Nerve Stimulation Following Cochlear Implantation. *Annals of Otol Rhinol Laryngol*, 194(9) supplement 166:426-28, 1995 [case report]
27. **Langman AW**, Quigley SM: Accuracy of High Resolution Computed Tomography in Cochlear Implantation. *Otolaryngology Head Neck Surg*, 114:38-43, 1996 [original work]
28. **Langman AW**, Yarrington CT: Melanoma of the Temporal Bone. *Otolaryngology Head Neck Surg*, 114:645-48, 1996 [case report]
29. Seely DR, Quigley SM, **Langman AW**: Ear Candles: Safety and Efficacy. *Laryngoscope*, 106:1226-29, 1996 [original work]\*

30. **Langman AW**, Quigley SM, Souliere CR: Cochlear Implantation in Children. *Pediatric Clinics of America*, 43:1217-31, 1996 [invited review]
31. Seely DR, **Langman AW**: Letter to the Editor, *ENT J*, 76(2):47, 1997
32. Marx SV, **Langman AW**: Cochlear Otosclerosis *AJO*, 18:424, 1997 [case report]
33. Toubbeh MI, **Langman AW**: Narrow Internal Auditory Canal. *AJO*, 18:780-81, 1997 [case report]
34. Strom SE, Baker KB, **Langman AW**: Inner Ear Malfunction. *AJO*, 19:396-97, 1998 [case report]
35. **Langman AW**: Vestibular Ablation in the Older Patient. *Otolaryngology Head Neck Surg*, 118(6):739-42, 1998 [original work]
36. Marx SV, Roberson DW, Coates G, **Langman AW**: Spinal Subdural Hematoma Following Resection of an Acoustic Neuroma. *Otolaryngology Head Neck Surg*, 120(4):540-42, 1999 [case report]
37. Marx SV, **Langman AW**, Crane CR: Accuracy of Fast Spin Echo MRI in the Diagnosis of Vestibular Schwannoma. *Am Otolaryngol* 20(4):211-216, 1999 [original work]
38. Souliere CR, **Langman AW**: Temporal Bone Encephaloceles. *Skull Base Surgery Skull Base Surg* 8:185-189, 1998 [original work]
39. **Langman AW**: New Treatments for Vertigo. *Northwest Neuroscience Institute Journal*, 7(2):2-3, 2000 [invited review]
40. **Langman AW**: Cochlear Implants. *Northwest Neuroscience Institute Journal*, 8(30):1-2, 2001 [invited review]
41. **Langman AW**: Inner Ear Perfusion: Clinical Experience. *Current Opinion in Otolaryngology Head Neck Surg*, 9:333-35, 2001 [invited review]
42. Sullivan TP, **Langman AW**: Progression of Facial Nerve Enhancement in Idiopathic Facial Nerve Paralysis. *Otol Neurotol*, 25(3):410-411, 2004 [case report]
43. Lee WT, Witsell D, Parham K, Shin JJ, Chapurin N, Pynnonen MA, **Langman AW**, et al.: Tonsillectomy Bleed Rates across the CHEER Practice Research Network: Pursuing Guideline Adherence and Quality Improvement. *Otolaryngol Head Neck Surg* 155(1): 28-32, 2016 [original work]

44. Crowson MG, Schulz K, Parham K, Vambutas A, Witsell D, Tucci D, Lee WT, Shin JJ, Pynninen MA, Nguyen-Huynh A, Ryan SE, **Langman AW**: Meniere's Disease – A CHEER Database Study of Local and Regional Patient Encounter and Procedure Patterns. *Otolaryngol Head Neck Surg* 155(1): 15-21, 2016 [original work]
45. Parham K, Chapurin N, Schulz K, Shin JJ, Pynninen MA, Witsell DL, **Langman AW**, et al.: Thyroid Disease and Surgery in CHEER: The Nation's Otolaryngology-Head and Neck Surgery Practice-Based Network. *Otolaryngol Head Neck Surg* 155(1): 22-27, 2016 [original work]
46. Piker EG, Schulz K, Parham K, Vambutas A, Witsell D, Tucci D, Shin JJ, Pynninen MA, Nguyen-Huynh A, Crowson M, Ryan SE, **Langman AW**, et al.: Variation in the Use of Vestibular Diagnostic Testing for Patients Presenting to Otolaryngology Clinics with Dizziness. *Otolaryngol Head Neck Surg* 155(1): 42-47, 2016 [original work]
47. Bellmunt AM, Roberts R, Lee WT, Schulz K, Pynninen MA, Crowson MG, Witsell D, Parham K, **Langman AW**, et al.: Does an Otolaryngology-Specific Database Have Added Value? Comparative Feasibility Analysis. *Otolaryngol Head Neck Surg* 155(1): 56-64, 2016 [original work]
48. Crowson MG, Mulder H, Cyr DD, **Langman AW**, et al: Idiopathic Sudden Sensorineural Hearing Loss Is Not a Sentinel Event for Acute Myocardial Infarction. *Oto Neurotol* 2018 Aug; 39(7): e518-e523 [original work]

#### **Textbooks:**

1. Otolaryngology Section Editor, *Head & Neck Surgery*, 2<sup>nd</sup> Edition. Jaypee Brothers Medical Publishers, New Delhi, 2017

#### **Book Chapters:**

1. Anatomy & Physiology of Hearing (2017). In C. de Souza (Ed.), *Otorhinolaryngology – Head and Neck Surgery* (2<sup>nd</sup> ed.). New Delhi: Jaypee Brothers Medical Publishers
2. Temporal Bone Trauma (2017). In C. de Souza (Ed), *Otorhinolaryngology – Head and Neck Surgery* (2<sup>nd</sup> ed.). New Delhi: Jaypee Brothers Medical Publishers
3. Sullivan TP, **Langman AW**: Radiological Evaluation of the Temporal Bone In: Comprehensive Textbook of Otolaryngology, de Souza (Ed.)

#### **Abstracts:**

1. Revision Stapedectomy. Otorhinolaryngology Digest (accepted)
2. Meningioma of the Internal Auditory Canal. Oncology Digest, 2:6-7, 1991

**Audio Tapes:**

1. **Langman AW:** The Effect of Vestibular Rehabilitation on Postoperative Dysequilibrium Following Transmastoid Labyrinthectomy. Audio-Digest, Otolaryngology Head Neck Surg, Vol. 27, No. 15, Aug. 11, 1994
2. **Langman AW:** Titration Streptomycin Therapy for Bilateral Meniere's Disease. Audio-Digest, Otolaryngology Head Neck Surg, Vol. 23, No. 20, Oct. 31, 1990