



Nikolas Blevins, MD

Larry and Sharon Malcolmson Professor in the School of Medicine, Professor of Otolaryngology - Head & Neck Surgery (OHNS) and, by courtesy, of Neurosurgery

Otolaryngology (Head and Neck Surgery)

CLINICAL OFFICE (PRIMARY)

- **Stanford Ear Institute**

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Palo Alto, CA 94303

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Bio

CLINICAL FOCUS

- Otolaryngology - Head & Neck Surgery (Ear, Nose and Throat)
- Cochlear Implantation
- Hearing Loss
- Acoustic Neuroma
- Facial Nerve
- Cholesteatoma
- Skull Base Neoplasms
- Otitis Media
- Otosclerosis
- neurotology
- Tympanoplasty
- Neurotology

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Otolaryngology (Head and Neck Surgery)
- Professor - University Medical Line (By courtesy), Neurosurgery
- Member, Bio-X
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Clinical Advisory Group - Hospital Informatics, Stanord Hospital and Clinics, (2005-2006)

- Home Study Faculty, American Academy of Otolaryngology, (2002- present)
- Task Force on New Materials, American Academy of Otolaryngology, (1998-2002)
- Hearing Aid Subcommittee, American Academy of Otolaryngology, (1996-2003)
- Residency Program Director, Tufts University Department of Otolaryngology, (2000-2003)
- Director, Temporal Bone Laboratory, Stanford University, Department of Otolaryngology, (2003- present)

HONORS AND AWARDS

- San Francisco Best Doctors, San Francisco Magazine (2005)
- Best Doctors in America, Best Doctors in America (2003, 2004, 2005)
- Excellence in Teaching Awards, Tufts University (1998 - 2002)
- Best Electronic Publication Award: Temporal Bone Dissector, Association of American Publishers (1998)
- Phi Beta Kappa, Stanford University (1983)

PROFESSIONAL EDUCATION

- Fellowship: UCSF Dept of Otolaryngology Head and Neck Surgery (1995) CA
- Residency: UCSF Dept of Otolaryngology Head and Neck Surgery (1994) CA
- Internship: UCSF Dept of General Surgery (1990) CA
- Board Certification: Neurotology, American Board of Otolaryngology (2006)
- Board Certification: Otolaryngology, American Board of Otolaryngology (1995)
- Medical Education: Harvard Medical School (1988) MA
- Fellowship, UC, San Francisco , Otology/ Neurotology (1995)
- Residency, UC, San Francisco , Otolaryngology (1994)
- BS, Stanford University , Biological Sciences (1984)
- MD, Harvard Medical School , Medicine (1988)

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>
- Google Scholar: https://scholar.google.com/citations?user=vrWYT_wAAAAJ

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Inner ear microendoscopy and prosthesis design -- Developing techniques for minimally-invasive imaging of inner ear microanatomy and neural physiology. Applications include improved cochlear implant development, inner ear regenerative techniques, inner ear surgery, and auditory physiology. Collaboration with Mark Schnitzer PhD, Gerald Popelka PhD, Kwabena Boahen PhD.

Microsurgical robotics -- Developing scalable microsurgical instrumentation and robotic techniques for use in head and neck surgery. Collaboration with Kenneth Salisbury, PhD.

Surgical Simulation -- Developing immersive environment for simulation of ear and skull base surgery for training, technique assessment, and preoperative planning. Collaboration with Kenneth Salisbury, PhD.

Teaching

STANFORD ADVISEES

Doctoral Dissertation Co-Advisor (NonAC)

Trishia El Chemaly

Doctoral (Program)

Yunxin Fan

Publications

PUBLICATIONS

- **Perception-first digital twin for augmented reality microsurgery.** *International journal of computer assisted radiology and surgery*
El Chemaly, T., Fan, Y., Fu, F., Leuze, C., Daniel, B., Hargreaves, B., Blevins, N. H.
2026
- **Prospective MR Evaluation of Endolymphatic Hydrops Using Half-dose Gadopiclenol.** *AJNR. American journal of neuroradiology*
Christodoulou, R., Fischbein, N., Blevins, N., Malik, S., Landegger, L. D., Fu, F., Pham, N.
2026
- **Intraoperative Label-free Detection of Cholesteatoma Using Autofluorescence: A Feasibility Study.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Park, R. K., Penaranda, D., Nyaeme, M. S., Chang, K. W., Blevins, N. H., Ahmad, I., Valdez, T. A.
2026; 47 (2): e467-e472
- **Prospective MR Evaluation of Endolymphatic Hydrops at Multiple Flip Angles Using Single-Dose Gadolinium Contrast.** *AJNR. American journal of neuroradiology*
Pham, N., Kullar, P., Fischbein, N., Malik, S., Landegger, L. D., Fu, F., Blevins, N.
2025
- **Scoping review of deep learning research illuminates artificial intelligence chasm in otolaryngology-head and neck surgery.** *NPJ digital medicine*
Liu, G. S., Fereydooni, S., Lee, M. C., Polkampally, S., Huynh, J., Kuchibhotla, S., Shah, M. M., Ayoub, N. F., Capasso, R., Chang, M. T., Doyle, P. C., Holsinger, F. C., Patel, et al
2025; 8 (1): 265
- **The Role of Routine Plain Film Imaging Post Cochlear Implantation.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Kouhi, A., Sharifi, A., Blevins, N. H.
2025
- **Artificial Intelligence Tracking of Otologic Instruments in Mastoidectomy Videos.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Liu, G. S., Parulekar, S., Lee, M. C., El Chemaly, T., Diop, M., Park, R., Blevins, N. H.
2024
- **From microscope to head-mounted display: integrating hand tracking into microsurgical augmented reality.** *International journal of computer assisted radiology and surgery*
El Chemaly, T., Athayde Neves, C., Fu, F., Hargreaves, B., Blevins, N. H.
2024
- **Single-cell transcriptomic atlas reveals increased regeneration in diseased human inner ear balance organs.** *Nature communications*
Wang, T., Ling, A. H., Billings, S. E., Hosseini, D. K., Vaisbuch, Y., Kim, G. S., Atkinson, P. J., Sayyid, Z. N., Aaron, K. A., Wagh, D., Pham, N., Scheibinger, M., Zhou, et al
2024; 15 (1): 4833

- **Deep Learning Method for Rapid Simultaneous Multistructure Temporal Bone Segmentation.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Neves, C. A., Chemaly, T. E., Fu, F., Blevins, N. H.
2024
- **Speech-in-Noise Assessment in the Routine Audiologic Test Battery: Relationship to Perceived Auditory Disability.** *Ear and hearing*
Fitzgerald, M. B., Ward, K. M., Gianakas, S. P., Smith, M. L., Blevins, N. H., Swanson, A. P.
2024
- **Estimation of Cochlear Implant Insertion Depth Using 2D-3D Registration of Postoperative X-Ray and Preoperative CT Images.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otolology and Neurotology*
Liu, G. S., Cooperman, S. P., Neves, C. A., Blevins, N. H.
2024
- **Sporadic vestibular schwannoma in a pediatric population: a case series.** *Child's nervous system : ChNS : official journal of the International Society for Pediatric Neurosurgery*
Kosaraju, N., Moore, L. S., Mulders, J. Y., Blevins, N. H.
2023
- **Virtual Reality Simulation for the Middle Cranial Fossa Approach: A Validation Study.** *Operative neurosurgery (Hagerstown, Md.)*
Lai, C., Lui, J. T., de Lotbiniere-Bassett, M., Chen, J. M., Lin, V. Y., Agrawal, S. K., Blevins, N. H., Ladak, H. M., Pirouzmand, F.
2023
- **Glomangiopericytoma Presenting as a Middle Ear Mass.** *The Laryngoscope*
Liu, G. S., Berry, G. J., Soltys, S. G., Blevins, N. H.
2023
- **Evaluation of Asymmetries in Speech-in Noise Abilities in Audiologic Screening for Vestibular Schwannoma.** *Ear and hearing*
Jason Qian, Z., Vaisbuch, Y., Gianakas, S. P., Tran, E. D., Ali, N. E., Blevins, N. H., Fitzgerald, M. B.
2023
- **Content Validity of a High-Fidelity Surgical Middle Ear Simulator: A Randomized Prospective International Multicenter Trial.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otolology and Neurotology*
Youner, E. R., Chillakuru, Y. R., Xu, H., Dedmon, M., Labadie, R., Djalilian, H., Mahboubi, H., Westerberg, B., Vaisbuch, Y., Blevins, N., Chen, J., Lin, V., Joyce, et al
2023
- **Automated Radiomic Analysis of Vestibular Schwannomas and Inner Ears Using Contrast-Enhanced T1-Weighted and T2-Weighted Magnetic Resonance Imaging Sequences and Artificial Intelligence.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otolology and Neurotology*
Neves, C. A., Liu, G. S., El Chemaly, T., Bernstein, I. A., Fu, F., Blevins, N. H.
2023
- **Signal to noise ratio quantifies the contribution of spectral channels to classification of human head and neck tissues ex vivo using deep learning and multispectral imaging.** *Journal of biomedical optics*
Liu, G. S., Shenson, J. A., Farrell, J. E., Blevins, N. H.
2023; 28 (1): 016004
- **C-CASE 2022: Competence to Excellence: Canadian Conference for the Advancement of Surgical Education, Oct. 13-14, 2022.** *Canadian journal of surgery. Journal canadien de chirurgie*
Goff, L., Greene, H., Munn, A., Furey, A., Smith, N., St Croix, R., Moffatt-Bruce, S., Lefebvre, G., Jing, J. W., Harvey, E. J., Reindl, R., Al Badi, H., Berry, et al
2022; 65 (6 Suppl 1): S19-S32
- **High-Fidelity Virtual Reality Simulation for the Middle Cranial Fossa Approach-Modules for Surgical Rehearsal and Education.** *Operative neurosurgery (Hagerstown, Md.)*
Lai, C., Lui, J. T., Chen, J. M., Lin, V. Y., Agrawal, S. K., Blevins, N. H., Ladak, H. M., Pirouzmand, F.
2022

- **The Outcome of Cochlear Implantations in Deaf-Blind Patients: A Multicenter Observational Study.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Daneshi, A., Sajjadi, H., Blevins, N., Jenkins, H. A., Farhadi, M., Ajallouyan, M., Hashemi, S. B., Thai, A., Tran, E., Rajati, M., Asghari, A., Mohseni, M., Mohebbi, et al
2022; 43 (8): 908-914
- **The user experience design of a novel microscope within SurgiSim, a virtual reality surgical simulator.** *International journal of computer assisted radiology and surgery*
de Lotbiniere-Bassett, M., Volpato Batista, A., Lai, C., El Chemaly, T., Dort, J., Blevins, N., Lui, J.
2022
- **Remote Intraoperative Neural Response Telemetry: Technique and Results in Cochlear Implant Surgery.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Kouhi, A., Swanson, A., Fitzgerald, M. B., Blevins, N. H.
2022; 43 (6): 638-642
- **Outcomes in Patients Meeting Cochlear Implant Criteria in Noise but Not in Quiet.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Thai, A., Tran, E., Swanson, A., Fitzgerald, M. B., Blevins, N. H., Ma, Y., Smith, M. L., Larky, J. B., Alyono, J. C.
2022; 43 (1): 56-63
- **Influence of electrode to cochlear duct length ratio on post-operative speech understanding outcomes.** *Cochlear implants international*
Cooperman, S. P., Aaron, K. A., Fouad, A., Tran, E., Blevins, N. H., Fitzgerald, M. B.
2021: 1-11
- **Fully Automated Measurement of Cochlear Duct Length From Clinical Temporal Bone Computed Tomography.** *The Laryngoscope*
Neves, C. A., Tran, E. D., Cooperman, S. P., Blevins, N. H.
2021
- **Augmented Reality for Retrosigmoid Craniotomy Planning** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*
Leuze, C., Neves, C. A., Gomez, A. M., Navab, N., Blevins, N., Vaisbuch, Y., McNab, J. A.
2021
- **Tumor Control Following Stereotactic Radiosurgery in Patients with Vestibular Schwannomas - A Retrospective Cohort Study.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Santa Maria, P. L., Shi, Y., Aaron, K. A., Gurgel, R. K., Corrales, C. E., Soltys, S. G., Santa Maria, C., Chang, S. D., Blevins, N. H., Jackler, R. K., Gibbs, I. C.
2021
- **Deep learning automated segmentation of middle skull-base structures for enhanced navigation.** *International forum of allergy & rhinology*
Neves, C. A., Tran, E. D., Blevins, N. H., Hwang, P. H.
2021
- **Postoperative Venous Thromboembolism after Neurotologic Surgery.** *Journal of neurological surgery. Part B, Skull base*
Ali, N., Alyono, J. C., Song, Y., Kouhi, A., Blevins, N. H.
2021; 82 (3): 378-382
- **Assessment of Inter- and Intra-Rater Reliability of Tablet-Based Software to Measure Cochlear Duct Length.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Cooperman, S. P., Aaron, K. A., Fouad, A., Tran, E., Blevins, N. H., Fitzgerald, M. B.
2021
- **Stereotactic Radiosurgery for Vestibular Schwannoma Outcomes in Patients With Perfect Word Recognition-A Retrospective Cohort Study.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Fouad, A. n., Tran, E. D., Feng, A. Y., Alyono, J. C., Ma, Y. n., Blevins, N. H., Jackler, R. K., Santa Maria, P. L.
2021
- **Multispectral Imaging for Automated Tissue Identification of Normal Human Surgical Specimens.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*

Shenson, J. A., Liu, G. S., Farrell, J., Blevins, N. H.
2020: 194599820941013

- **American Neurotology Society, American Otological Society, and American Academy of Otolaryngology - Head and Neck Foundation Guide to Enhance Otologic and Neurotologic Care During the COVID-19 Pandemic.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Kozin, E. D., Remenschneider, A. K., Blevins, N. H., Jan, T. A., Quesnel, A. M., Chari, D. A., Kesser, B. W., Weinstein, J. E., Ahsan, S. F., Telischi, F. F., Adunka, O. F., Weber, P., Knoll, et al
2020
- **Trends in Age of Cochlear Implant Recipients, and the Impact on Perioperative Complication Rates.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Fakumejad, S., Vail, D., Song, Y., Alyono, J., Blevins, N. H.
2020; 41 (4): 438-443
- **Mastoid Obliteration Using Autologous Bone Dust Following Canal Wall Down Mastoidectomy.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Sioshansi, P. C., Alyono, J. C., Blevins, N. H.
2020
- **American Neurotology Society, American Otological Society, and American Academy of Otolaryngology - Head and Neck Foundation Guide to Enhance Otologic and Neurotologic Care During the COVID-19 Pandemic.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Kozin, E. D., Remenschneider, A. K., Blevins, N. H., Jan, T. A., Quesnel, A. M., Chari, D. A., Kesser, B. W., Weinstein, J. E., Ahsan, S. F., Telischi, F. F., Adunka, O. F., Weber, P. n., Knoll, et al
2020; 41 (9): 1163-74
- **Trends in Age of Cochlear Implant Recipients, and the Impact on Perioperative Complication Rates.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Fakumejad, S. n., Vail, D. n., Song, Y. n., Alyono, J. n., Blevins, N. H.
2020
- **Factors influencing classification of frequency following responses to speech and music stimuli.** *Hearing research*
Losorelli, S. n., Kaneshiro, B. n., Musacchia, G. A., Blevins, N. H., Fitzgerald, M. B.
2020; 398: 108101
- **Application of holographic augmented reality for external approaches to the frontal sinus.** *International forum of allergy & rhinology*
Neves, C. A., Vaisbuch, Y. n., Leuze, C. n., McNab, J. A., Daniel, B. n., Blevins, N. H., Hwang, P. H.
2020
- **Ocular Vestibular-Evoked Myogenic Potential Amplitudes Elicited at 4 kHz Optimize Detection of Superior Semicircular Canal Dehiscence.** *Frontiers in neurology*
Tran, E. D., Swanson, A. n., Sharon, J. D., Vaisbuch, Y. n., Blevins, N. H., Fitzgerald, M. B., Steenerson, K. K.
2020; 11: 879
- **Long-Term Hearing Outcomes Following Stereotactic Radiosurgery in Vestibular Schwannoma Patients-A Retrospective Cohort Study**
Santa Maria, P. L., Shi, Y., Gurgel, R. K., Corrales, C., Soltys, S. G., Santa Maria, C., Murray, K., Chang, S. D., Blevins, N. H., Gibbs, I. C., Jackler, R. K.
OXFORD UNIV PRESS INC.2019: 550-59
- **Cochlear Implant Quality of Life (CIQOL): Development of a Profile Instrument (CIQOL-35 Profile) and a Global Measure (CIQOL-10 Global)** *JOURNAL OF SPEECH LANGUAGE AND HEARING RESEARCH*
McRackan, T. R., Hand, B. N., Golub, J. S., Wilkinson, E. P., Mills, D., Carey, J. P., Vorasubin, N., Brunk, V., Carlson, M. L., Driscoll, C. L., Sladen, D. P., Camposeo, E. L., Holcomb, et al
2019; 62 (9): 3554-63
- **Validation of a rhinologic virtual surgical simulator for performing a Draf 3 endoscopic frontal sinusotomy**
Won, T., Cho, S., Sung, M., Paek, S., Chan, S., Salisbury, K., Blevins, N. H., Vaisbuch, Y., Hwang, P.
WILEY.2019: 910-17
- **Postoperative Venous Thromboembolism after Extracranial Otologic Surgery**
Song, Y., Alyono, J. C., Ali, N., Blevins, N. H.

SAGE PUBLICATIONS LTD.2019: 144–49

- **Frequency-following response among neonates with progressive moderate hyperbilirubinemia.** *Journal of perinatology : official journal of the California Perinatal Association*
Musacchia, G., Hu, J., Bhutani, V. K., Wong, R. J., Tong, M., Han, S., Blevins, N. H., Fitzgerald, M. B.
2019
- **Development of the Cochlear Implant Quality of Life Item Bank** *EAR AND HEARING*
McRackan, T. R., Hand, B. N., Samy, R. N., Gubbels, S. P., Golub, J. S., Wilkinson, E. P., Mills, D., Carey, J. P., Vorasubin, N., Brunk, V., Carlson, M. L., Driscoll, C. L., Sladen, et al
2019; 40 (4): 1016–24
- **Systematic Review of Temporal Bone-Resurfacing Techniques for Pulsatile Tinnitus Associated with Vascular Wall Anomalies** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Liu, G. S., Boursiquot, B. C., Blevins, N. H., Vaisbuch, Y.
2019; 160 (5): 749–61
- **Postoperative Venous Thromboembolism after Extracranial Otologic Surgery.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Song, Y., Alyono, J. C., Ali, N., Blevins, N. H.
2019: 194599819835743
- **Introduction to the Special Issue: 15th Symposium on Cochlear Implants in Children** *OTOLOGY & NEUROTOLOGY*
Blevins, N. H., Limb, C. J., Sorkin, D. L.
2019; 40 (3): E251
- **Introduction to the Special Issue: 15th Symposium on Cochlear Implants in Children.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otolology and Neurotology*
Blevins, N. H., Limb, C. J., Sorkin, D. L.
2019; 40 (3): e251
- **Aberrant Venous Drainage in a Case of Spontaneous Cerebrospinal Fluid Leak.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otolology and Neurotology*
Ali, N. E., Alyono, J. C., Blevins, N. H.
2019; 40 (7): e755–e757
- **A Prospective Evaluation of Postoperative Opioid Use in Otologic Surgery.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otolology and Neurotology*
Qian, Z. J., Alyono, J. C., Woods, O. D., Ali, N. n., Blevins, N. H.
2019
- **Postoperative Imaging Surveillance Following Vestibular Schwannoma Resection** *COMPREHENSIVE MANAGEMENT OF VESTIBULAR SCHWANNOMA*
Sevy, A., Blevins, N. H.
edited by Carlson, M. L.
2019: 336–41
- **Systematic Review of Temporal Bone-Resurfacing Techniques for Pulsatile Tinnitus Associated with Vascular Wall Anomalies.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Liu, G. S., Boursiquot, B. C., Blevins, N. H., Vaisbuch, Y. n.
2019: 194599818823205
- **Validation of a rhinologic virtual surgical simulator for performing a Draf 3 endoscopic frontal sinusotomy.** *International forum of allergy & rhinology*
Won, T. B., Cho, S. W., Sung, M. W., Paek, S. H., Chan, S. n., Salisbury, K. n., Blevins, N. H., Vaisbuch, Y. n., Hwang, P. n.
2019
- **Hypotympanic Sound Baffle for Amelioration of Pulsatile Tinnitus due to Carotid and Jugular Bulb Dehiscence.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otolology and Neurotology*
Liu, G. S., Blevins, N. H., Vaisbuch, Y. n.
2019; 40 (7): 920–26

- **Prevalence of Radiographic Cochlear-Facial Nerve Dehiscence.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Song, Y., Alyono, J. C., Bartholomew, R. A., Vaisbuch, Y., Corrales, C. E., Blevins, N. H.
2018
- **Long-Term Hearing Outcomes Following Stereotactic Radiosurgery in Vestibular Schwannoma Patients-A Retrospective Cohort Study.** *Neurosurgery*
Santa Maria, P. L., Shi, Y., Gurgel, R. K., Corrales, C. E., Soltys, S. G., Santa Maria, C., Murray, K., Chang, S. D., Blevins, N. H., Gibbs, I. C., Jackler, R. K.
2018
- **Multicenter US Clinical Trial With an Electric-Acoustic Stimulation (EAS) System in Adults: Final Outcomes** *OTOLOGY & NEUROTOLOGY*
Pillsbury, H. C., Dillon, M. T., Buchman, C. A., Staecker, H., Prentiss, S. M., Ruckenstein, M. J., Bigelow, D. C., Telischi, F. F., Martinez, D. M., Runge, C. L., Friedland, D. R., Blevins, N. H., Larky, et al
2018; 39 (3): 299–305
- **In reference to Evidence against the mucosal traction theory in cholesteatoma.** *The Laryngoscope*
Jackler, R. K., Santa Maria, P. L., Blevins, N. H.
2018
- **Early experience with a patient-specific virtual surgical simulation for rehearsal of endoscopic skull-base surgery** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*
Won, T., Hwang, P., Lim, J., Cho, S., Paek, S., Losorelli, S., Vaisbuch, Y., Chan, S., Salisbury, K., Blevins, N. H.
2018; 8 (1): 54–63
- **Temporal Bone CT Scan for Malleal Ligaments Assessment.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Vaisbuch, Y. n., Hosseini, D. K., Lanzman, B. n., Marcott, S. C., Ma, Y. n., Song, Y. n., Alyono, J. C., Blevins, N. H.
2018; 39 (10): e1054–e1059
- **Nasoseptal flap closure of the eustachian tube for recalcitrant cerebrospinal fluid rhinorrhea.** *The Laryngoscope*
Patel, V. S., Choby, G. W., Thamboo, A., Blevins, N. H., Hwang, P. H.
2017
- **Electrode Array Displacement into the Fallopian Canal in Revisions of Long-standing Cochlear Implants** *OTOLOGY & NEUROTOLOGY*
Alyono, J., Locketz, G., Corrales, C. E., Blevins, N. H.
2017; 38 (5): 667-671
- **Anatomy-Specific Virtual Reality Simulation in Temporal Bone Dissection: Perceived Utility and Impact on Surgeon Confidence.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Locketz, G. D., Lui, J. T., Chan, S., Salisbury, K., Dort, J. C., Youngblood, P., Blevins, N. H.
2017; 156 (6): 1142-1149
- **First results of a novel adjustable-length ossicular reconstruction prosthesis in temporal bones.** *Laryngoscope*
Gottlieb, P. K., Li, X., Monfared, A., Blevins, N., Puria, S.
2016; 126 (11): 2559-2564
- **Fusion of Computed Tomography and PROPELLER Diffusion-Weighted Magnetic Resonance Imaging for the Detection and Localization of Middle Ear Cholesteatoma.** *JAMA otolaryngology-- head & neck surgery*
Locketz, G. D., Li, P. M., Fischbein, N. J., Holdsworth, S. J., Blevins, N. H.
2016; 142 (10): 947-953
- **Facial Nerve Outcome and Tumor Control Rate as a Function of Degree of Resection in Treatment of Large Acoustic Neuromas: Preliminary Report of the Acoustic Neuroma Subtotal Resection Study (ANSRS)** *NEUROSURGERY*
Monfared, A., Corrales, C. E., Theodosopoulos, P. V., Blevins, N. H., Oghalai, J. S., Selesnick, S. H., Lee, H., Gurgel, R. K., Hansen, M. R., Nelson, R. F., Gantz, B. J., Kutz, J. W., Isaacson, et al
2016; 79 (2): 194-200
- **In response to a new theory on the pathogenesis of acquired cholesteatoma: Mucosal traction.** *Laryngoscope*
Jackler, R. K., Maria, P. L., Varsak, Y. K., Blevins, N. H., Nguyen, A.
2016; 126 (3): E131-?

- **In response to A new theory on the pathogenesis of acquired cholesteatoma: Mucosal traction** *LARYNGOSCOPE*
Jackler, R. K., Maria, P., Varsak, Y. K., Blevins, N. H., Anh Nguyen
2016; 126 (3): E133
- **In reference to A new theory on the pathogenesis of acquired cholesteatoma: Mucosal traction.** *Laryngoscope*
Jackler, R. K., Santa Maria, P. L., Varsak, Y. K., Blevins, N. H., Nguyen, A.
2016; 126 (1): E50-?
- **High-fidelity haptic and visual rendering for patient-specific simulation of temporal bone surgery** *COMPUTER ASSISTED SURGERY*
Chan, S., Li, P., Locketz, G., Salisbury, K., Blevins, N. H.
2016; 21 (1): 85-101
- **Pediatric Semicircular Canal Dehiscence: Radiographic and Histologic Prevalence, With Clinical Correlation** *OTOLOGY & NEUROTOLOGY*
Meiklejohn, D. A., Corrales, C. E., Boldt, B. M., Sharon, J. D., Yeom, K. W., Carey, J. P., Blevins, N. H.
2015; 36 (8): 1383-1389
- **Pediatric Semicircular Canal Dehiscence: Radiographic and Histologic Prevalence, With Clinical Correlation.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Meiklejohn, D. A., Corrales, C. E., Boldt, B. M., Sharon, J. D., Yeom, K. W., Carey, J. P., Blevins, N. H.
2015; 36 (8): 1383-9
- **A new theory on the pathogenesis of acquired cholesteatoma: Mucosal traction.** *Laryngoscope*
Jackler, R. K., Santa Maria, P. L., Varsak, Y. K., Nguyen, A., Blevins, N. H.
2015; 125: S1-S14
- **A new theory on the pathogenesis of acquired cholesteatoma: Mucosal traction** *LARYNGOSCOPE*
Jackler, R. K., Maria, P. L., Varsak, Y. K., Anh Nguyen, A., Blevins, N. H.
2015; 125: S1-S14
- **Development and Characterization of Chemical Cochleostomy in the Guinea Pig** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Alyono, J. C., Corrales, C. E., Huth, M. E., Blevins, N. H., Ricci, A. J.
2015; 152 (6): 1113-1118
- **Hearing Preservation Surgery for Cochlear Implantation: A Meta-analysis** *OTOLOGY & NEUROTOLOGY*
Maria, P. L., Gluth, M. B., Yuan, Y., Atlas, M. D., Blevins, N. H.
2014; 35 (10): E256-E269
- **Hearing preservation surgery for cochlear implantation: a meta-analysis.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Santa Maria, P. L., Gluth, M. B., Yuan, Y., Atlas, M. D., Blevins, N. H.
2014; 35 (10): e256-69
- **A case of stereotactic radiation in skull base solitary fibrous tumor: more harm than good?** *Journal of neurological surgery reports*
Santa Maria, P. L., Abuzeid, W. M., Nayak, J. V., Chang, S. D., Blevins, N. H.
2014; 75 (2): e214-6
- **Comprehensive Measures of Sound Exposures in Cinemas Using Smart Phones** *EAR AND HEARING*
Huth, M. E., Popelka, G. R., Blevins, N. H.
2014; 35 (6): 680-686
- **Facial nerve schwannomas presenting as occluding external auditory canal masses: a therapeutic dilemma.** *Otology & neurotology*
Alyono, J. C., Corrales, C. E., Gurgel, R. K., Blevins, N., Jackler, R. K.
2014; 35 (7): 1284-1289
- **Imaging for evaluation of cholesteatoma: current concepts and future directions.** *Current opinion in otolaryngology & head and neck surgery*
Corrales, C. E., Blevins, N. H.
2013; 21 (5): 461-467
- **Evaluating the utility of non-echo-planar diffusion-weighted imaging in the preoperative evaluation of cholesteatoma: A meta-analysis.** *Laryngoscope*

- Li, P. M., Linos, E., Gurgel, R. K., Fischbein, N. J., Blevins, N. H.
2013; 123 (5): 1247-1250
- **The effect of haptic degrees of freedom on task performance in virtual surgical environments.** *Studies in health technology and informatics*
Forsslund, J., Chan, S., Selesnick, J., Salisbury, K., Silva, R. G., Blevins, N. H.
2013; 184: 129-135
 - **Deformable Haptic Rendering for Volumetric Medical Image Data** *IEEE World Haptics Conference (WHC)*
Chan, S., Blevins, N. H., Salisbury, K.
IEEE.2013: 73-78
 - **Virtual Reality Simulation in Neurosurgery: Technologies and Evolution** *NEUROSURGERY*
Chan, S., Conti, F., Salisbury, K., Blevins, N. H.
2013; 72: A154-A164
 - **Virtual reality simulation in neurosurgery: technologies and evolution.** *Neurosurgery*
Chan, S., Conti, F., Salisbury, K., Blevins, N. H.
2013; 72: 154-164
 - **High-Fidelity, Inexpensive Surgical Middle Ear Simulator** *OTOLOGY & NEUROTOLOGY*
Monfared, A., Mitteramskogler, G., Gruber, S., Salisbury, J. K., Stampfl, J., Blevins, N. H.
2012; 33 (9): 1573-1577
 - **Radiographic Evaluation of the Tegmen in Patients With Superior Semicircular Canal Dehiscence** *OTOLOGY & NEUROTOLOGY*
Nadaraja, G. S., Gurgel, R. K., Fischbein, N. J., Anglemeyer, A., Monfared, A., Jackler, R. K., Blevins, N. H.
2012; 33 (7): 1245-1250
 - **Is It Valid to Calculate the 3-Kilohertz Threshold by Averaging 2 and 4 Kilohertz?** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Gurgel, R. K., Popelka, G. R., Oghalai, J. S., Blevins, N. H., Chang, K. W., Jackler, R. K.
2012; 147 (1): 102-104
 - **Superior semicircular canal dehiscence diagnosed after failed stapedotomy for conductive hearing loss** *AMERICAN JOURNAL OF OTOLARYNGOLOGY*
Li, P. M., Bergeron, C., Monfared, A., Agrawal, S., Blevins, N. H.
2011; 32 (5): 441-444
 - **Tinnitus suppression by low-rate electric stimulation and its electrophysiological mechanisms** *HEARING RESEARCH*
Zeng, F., Tang, Q., Dimitrijevic, A., Starr, A., Larky, J., Blevins, N. H.
2011; 277 (1-2): 61-66
 - **Dural arteriovenous fistula following translabyrinthine resection of cerebellopontine angle tumors: report of two cases.** *Skull base reports*
Li, P. M., Fischbein, N. J., Do, H. M., Blevins, N. H.
2011; 1 (1): 51-58
 - **CT Angiography as a Screening Tool for Dural Arteriovenous Fistula in Patients with Pulsatile Tinnitus: Feasibility and Test Characteristics** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Narvid, J., Do, H. M., Blevins, N. H., Fischbein, N. J.
2011; 32 (3): 446-453
 - **A virtual surgical environment for rehearsal of tympanomastoidectomy.** *Studies in health technology and informatics*
Chan, S., Li, P., Lee, D. H., Salisbury, J. K., Blevins, N. H.
2011; 163: 112-118
 - **Curing hearing loss: Patient expectations, health care practitioners, and basic science** *19th Annual ASHA/NIH/NIDCD Research Symposium on Neural Regeneration and Communication Processes*
Oshima, K., Suchert, S., Blevins, N. H., Heller, S.
ELSEVIER SCIENCE INC.2010: 311-18
 - **Reconstruction and exploration of virtual middle-ear models derived from micro-CT datasets** *5th International Symposium on Middle Ear Mechanics in Research and Otology (MEMRO 2009)*
Lee, D. H., Chan, S., Salisbury, C., Kim, N., Salisbury, K., Puria, S., Blevins, N. H.

ELSEVIER SCIENCE BV.2010: 198–203

- **Preliminary Evaluation of a Novel Bone-Conduction Device for Single-Sided Deafness** *OTOLOGY & NEUROTOLOGY*
Popelka, G. R., Derebery, J., Blevins, N. H., Murray, M., Moore, B. C., Sweetow, R. W., Wu, B., Katsis, M.
2010; 31 (3): 492-497
- **Cyberknife Radiotherapy for Vestibular Schwannoma** *OTOLARYNGOLOGIC CLINICS OF NORTH AMERICA*
Sakamoto, G. T., Blevins, N., Gibbs, I. C.
2009; 42 (4): 665-?
- **Integration of patient-specific paranasal sinus computed tomographic data into a virtual surgical environment** *54th Annual Fall Meeting of the American-Rhinologic-Society*
Parikh, S. S., Chan, S., Agrawal, S. K., Hwang, P. H., Salisbury, C. M., Rafii, B. Y., Varma, G., Salisbury, K. J., Blevins, N. H.
OCEAN SIDE PUBLICATIONS INC.2009: 442–47
- **Sensorineural hearing loss in patients with inflammatory bowel disease** *AMERICAN JOURNAL OF OTOLARYNGOLOGY*
Karmody, C. S., Valdez, T. A., Desai, U., Blevins, N. H.
2009; 30 (3): 166-170
- **Intraoperative staining of tympanoplasty grafts: A technique to facilitate graft placement** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Talas, D., Nguyen-Huynh, A., Blevins, N. H.
2008; 138 (5): 682-683
- **Tympanic Membrane Collagen Fibers: A Key to High-Frequency Sound Conduction** *110th Annual Meeting of the American-Academy-of-Otolaryngology-Head-and-Neck-Surgery-Foundation*
O'Connor, K. N., Tam, M., Blevins, N. H., Puria, S.
LIPPINCOTT WILLIAMS & WILKINS.2008: 483–90
- **Providing metrics and performance feedback in a surgical simulator** *COMPUTER AIDED SURGERY*
Sewell, C., Morris, D., Blevins, N. H., Dutta, S., Agrawal, S., Barbagli, F., Salisbury, K.
2008; 13 (2): 63-81
- **Readout-segmented EPI for rapid high resolution diffusion imaging at 3T** *EUROPEAN JOURNAL OF RADIOLOGY*
Holdsworth, S. J., Skare, S., Newbould, R. D., Guzmann, R., Blevins, N. H., Bammer, R.
2008; 65 (1): 36-46
- **Representing Fluid with Smoothed Particle Hydrodynamics in a Cranial Base Simulator** *16th Conference on Medicine Meets Virtual Reality*
Liu, W., Sewell, C., Blevins, N., Salisbury, K., Bodin, K., Hjelte, N.
I O S PRESS.2008: 257–259
- **Pediatric vestibulopathy and pseudovestibulopathy: differential diagnosis and management.** *Current opinion in otolaryngology & head and neck surgery*
Worden, B. F., Blevins, N. H.
2007; 15 (5): 304-309
- **Evaluating Drilling and Suctioning Technique in a Mastoidectomy Simulator** *15th Conference on Medicine Meets Virtual Reality*
Sewell, C., Morris, D., Blevins, N. H., Barbagli, F., Salisbury, K.
I O S PRESS.2007: 427–432
- **The effect of virtual haptic training on real surgical drilling proficiency** *2nd Joint EuroHaptics Conference and Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems*
Sewell, C., Blevins, N. H., Peddamatham, S., Tan, H. Z., Morris, D., Salisbury, K.
IEEE COMPUTER SOC.2007: 601–603
- **Validating Metrics for a Mastoidectomy Simulator** *15th Conference on Medicine Meets Virtual Reality*
Sewell, C., Morris, D., Blevins, N. H., Agrawal, S., Dutta, S., Barbagli, F., Salisbury, K.
I O S PRESS.2007: 421–426
- **Virtuosity with the mallet and gouge: The brilliant triumph of the "Modern" mastoid operation** *OTOLARYNGOLOGIC CLINICS OF NORTH AMERICA*
Sunder, S., Jackler, R. K., Blevins, N. H.

2006; 39 (6): 1191-?

- **Visuohaptic simulation of bone surgery for training and evaluation** *IEEE COMPUTER GRAPHICS AND APPLICATIONS*
Morris, D., Sewell, C., Barbagli, F., Salisbury, K., Blevins, N. H., Girod, S.
2006; 26 (6): 48-57
- **The challenges of revision skull base surgery** *OTOLARYNGOLOGIC CLINICS OF NORTH AMERICA*
Nguyen-Huynh, A., Blevins, N. H., Jackler, R. K.
2006; 39 (4): 783-?
- **Otologic manifestations of relapsing polychondritis - Review of literature and report of nine cases** *AURIS NASUS LARYNX*
Bachor, E., Blevins, N. H., Karmody, C., Kuehnel, T.
2006; 33 (2): 135-141
- **Cochlear implantation in patients with neurofibromatosis Type 2 and bilateral vestibular schwannoma** *OTOLOGY & NEUROTOLOGY*
Lustig, L. R., Yeagle, J., Driscoll, C. L., Blevins, N., Francis, H., Niparko, J. K.
2006; 27 (4): 512-518
- **In vivo imaging of mammalian cochlear blood flow using fluorescence microendoscopy** *Annual Meeting of the American-Neurotology-Society*
Monfared, A., Blevins, N. H., Cheung, E. L., Jung, J. C., Popelka, G., Schnitzer, M. J.
LIPPINCOTT WILLIAMS & WILKINS.2006: 144-52
- **Achieving Proper Exposure in Surgical Simulation** *14th Conference on Medicine Meets Virtual Reality*
Sewell, C., Morris, D., Blevins, N., Barbagli, F., Salisbury, K.
I O S PRESS.2006: 497-502
- **Sensorineural hearing loss, early greying, and essential tremor: A new hereditary syndrome?** *NAPCRG Conference 2003*
Karmody, C. S., Blevins, N. H., Lalwani, A. K.
SAGE PUBLICATIONS LTD.2005: 94-99
- **Mid-frequency sensorineural hearing loss: aetiology and prognosis** *Meeting of the Eastern Section of the Triological-Society*
Shah, R. K., Blevins, N. H., Karmody, C. S.
CAMBRIDGE UNIV PRESS.2005: 529-33
- **Quantifying Risky Behavior in Surgical Simulation** *13th Conference on Medicine Meets Virtual Reality*
Sewell, C., Morris, D., Blevins, N., Barbagli, F., Salisbury, K.
I O S PRESS.2005: 451-457
- **Transfacial recess ossicular reconstruction: Technique and early results** *Annual Meeting of the American-Otologic-Society*
Blevins, N. H.
LIPPINCOTT WILLIAMS & WILKINS.2004: 236-41
- **A collaborative virtual environment for the simulation of temporal bone surgery** *7th International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI 2004)*
Morris, D., Sewell, C., Blevins, N., Barbagli, F., Salisbury, K.
SPRINGER-VERLAG BERLIN.2004: 319-327
- **An event-driven framework for the simulation of complex surgical procedures** *7th International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI 2004)*
Sewell, C., Morris, D., Blevins, N., Barbagli, F., Salisbury, K.
SPRINGER-VERLAG BERLIN.2004: 346-354
- **Otalgia** *OTOLARYNGOLOGIC CLINICS OF NORTH AMERICA*
Shah, R. K., Blevins, N. H.
2003; 36 (6): 1137-?
- **Current digital imaging for the otolaryngologist.** *Current opinion in otolaryngology & head and neck surgery*
Blevins, N. H., Lustig, L. R.
2003; 11 (3): 166-172
- **External auditory canal duplication anomalies associated with congenital aural atresia** *JOURNAL OF LARYNGOLOGY AND OTOLOGY*

- Blevins, N. H., Byahatti, S. V., Karmody, C. S.
2003; 117 (1): 32-38
- **Potential use of diode laser soldering in middle ear reconstruction** *LASERS IN SURGERY AND MEDICINE*
Ditkoff, M., Blevins, N. H., Perrault, D., Shapshay, S. M.
2002; 31 (4): 242-246
 - **Chronic myringitis: Prevalence, presentation, and natural history** *XXIInd Annual Meeting of the Pulitzer-Society*
Blevins, N. H., Karmody, C. S.
LIPPINCOTT WILLIAMS & WILKINS.2001: 3-10
 - **Routine preoperative imaging in chronic ear surgery** *AMERICAN JOURNAL OF OTOTOLOGY*
Blevins, N. H., Carter, B. L.
1998; 19 (4): 527-535
 - **The origin of congenital cholesteatoma** *AMERICAN JOURNAL OF OTOTOLOGY*
Karmody, C. S., Byahatti, S. V., Blevins, N., Valtonen, H., Northrop, C.
1998; 19 (3): 292-297
 - **Are acoustic neuromas encapsulated tumors?** *99th Annual Meeting of the American-Academy-of-Otolaryngology-Head-and-Neck-Surgery*
Kuo, T. C., Jackler, R. K., Wong, K. D., Blevins, N. H., Pitts, L. H.
SAGE PUBLICATIONS LTD.1997: 606-9
 - **Chiari-I malformation presenting as vocal cord paralysis in the adult** *Annual Meeting of the American-Academy-of-Otolaryngology-Head-and-Neck-Surgery*
Blevins, N. H., Deschler, D. G., Kingdom, T. T., Lee, K. C.
SAGE PUBLICATIONS LTD.1997: S191-S194
 - **The promise of multimedia in otology** *AMERICAN JOURNAL OF OTOTOLOGY*
Blevins, N. H.
1997; 18 (3): 283-284
 - **Postlaryngectomy dysphagia caused by an anterior neopharyngeal diverticulum** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Deschler, D. G., Blevins, N. H., Ellison, D. E.
1996; 115 (1): 167-169
 - **COMBINED TRANSPETROSAL-SUBTEMPORAL CRANIOTOMY FOR CLIVAL TUMORS WITH EXTENSION INTO THE POSTERIOR-FOSSA** *LARYNGOSCOPE*
Blevins, N. H., Jackler, R. K., Kaplan, M. J., Gutin, P. H.
1995; 105 (9): 975-982
 - **EXPOSURE OF THE LATERAL EXTREMITY OF THE INTERNAL AUDITORY-CANAL THROUGH THE RETROSIGMOID APPROACH - A RADIOANATOMIC STUDY** *97th Annual Meeting of the American-Academy-of-Otolaryngology-Head-and-Neck-Surgery*
Blevins, N. H., Jackler, R. K.
MOSBY-YEAR BOOK INC.1994: 81-90
 - **FACIAL PARALYSIS DUE TO BENIGN PAROTID TUMORS** *ARCHIVES OF OTOLARYNGOLOGY-HEAD & NECK SURGERY*
Blevins, N. H., Jackler, R. K., Kaplan, M. J., Boles, R.
1992; 118 (4): 427-430
 - **NOVEL INSTRUMENTATION FOR MULTIFIELD TIME-LAPSE CINEMOGRAPHY** *COMPUTERS AND BIOMEDICAL RESEARCH*
KALLMAN, R. F., Blevins, N., COYNE, M. A., Prionas, S. D.
1990; 23 (2): 115-129