

CURRICULUM VITAE
GAVRIEL D. KOHLBERG, MD

1. PERSONAL DATA

Place of Birth: Boston, Massachusetts

2. EDUCATION

09/1999 – 12/1999 Semester course, National Outdoor Leadership School, Lander, WY
09/2000- 06/2004 BA, Computer Science, *cum laude*, Harvard University, Cambridge, MA
08/2006- 06/2010 MD, Stanford University, Stanford, CA

3. POSTGRADUATE TRAINING

07/2010- 06/2015 Resident in Otolaryngology – Head and Neck Surgery, New York Presbyterian Columbia and Cornell Program, New York, NY
07/2017- Present Fellow in Otology and Neurotology, University of Cincinnati / Cincinnati Children's Hospital Medical Center, Cincinnati, OH

4a. WORK EXPERIENCE

02/2004 – 05/2005 Research assistant, Dept of Radiology, Massachusetts General Hospital, Boston, MA
05/2005 – 08/2006 CEO, Digi-Block, Cambridge MA
12/2015 – 05/2017 Medical officer, Israel Defense Force, Haifa, Israel

4b. FACULTY POSITIONS HELD

09/2019 – Assistant professor, Department of Otolaryngology – Head and Neck Surgery, University of Washington, Seattle, WA

5. HOSPITAL POSITIONS HELD

None

6. CURRENT EMPLOYMENT

09/2019 – Assistant professor, Department of Otolaryngology – Head and Neck Surgery, University of Washington, Seattle, WA

7. HONORS

2001 Harvard College Scholar, Harvard University, Cambridge, MA
2004 Honors in Computer Science, Harvard University, Cambridge, MA
2007 Stanford Medical Scholars Research Fellowship, Stanford, CA
2013 2nd place, resident research award, Annual Cornell and Columbia resident research day
2014 3rd place, resident research award, Annual Metropolitan New York resident research day symposium
2015 1st place, resident research award, Annual Cornell and Columbia resident research day
2016 Top graduate honors for exemplary performance in medical officer course, Israel Defense Force
2017 Head Naval Medicine Officer award for outstanding performance, Israel Defense Force
2019 1st place otology / neurotology poster, Tribological society at COSM, Austin TX

2019 Physician of the Quarter – University of Cincinnati Medical Center, Cincinnati, OH

8. BOARD CERTIFICATION

2016 Diplomate, American Board of Otolaryngology – Head and Neck Surgery

9. LICENSURE

2015 – Israel Medical License

2017 – Ohio State Medical License

2019 – Washington State Medical License

2016 – American Board of Otolaryngology

10. PROFESSIONAL ORGANIZATIONS

2014 - American Academy of Otolaryngology – Head and Neck Surgery

11. TEACHING RESPONSIBILITIES

1. Temporal bone anatomy weekly course for residents. Instructor. July 2019 – June 2019. Department of Otolaryngology – Head and Neck Surgery, University of Cincinnati College of Medicine, Cincinnati, OH, USA.
2. Introduction to Otology/Neurotology. Medical student lecture. September 2017. University of Cincinnati College of Medicine, Cincinnati, OH, USA.
3. Cochlear Implant Workshop for Audiology students. Instructor. September 2017. University of Cincinnati College of Medicine. Cincinnati, OH, USA.
4. Surgical Approaches to the Lateral Skull Base. Guest lecture at Hearing Disorder Course for Audiology Students. April 2018. University of Cincinnati College of Allied Health Sciences. Cincinnati, OH, USA.

12. EDITORIAL RESPONSIBILITIES

None

13. SPECIAL NATIONAL RESPONSIBILITIES

Otology and Neurotology – 2016, 2018, 2019

Annals of Otology, Rhinology & Laryngology - 2016

14. SPECIAL LOCAL RESPONSIBILITIES

None

15. RESEARCH FUNDING

A. Current

2017 - Present Sponsor: Israel Defense Force Medical Research Division

Title: Development of a Novel Portable Hemothorax and Pneumothorax-Detection Device

Total Costs: \$20,000
Role: Co-Investigator

16. BIBLIOGRAPHY

A. Publications in Refereed Journals

1. Zalis M, Perumpillichira J, Magee C, **Kohlberg G**, Hahn P. Tagging-Based, Electronically Cleansed CT Colonography: Evaluation of Patient Comfort and Image Reliability. *Radiology*. Apr 2006 239(1): 149-59 [original work]
2. **Kohlberg G**, Truong M, Chang K. Wegener's Granulomatosis in an Adolescent Presenting with Pachymeningitis, Mastoid Effusion and Horner's Syndrome. *International Journal of Pediatric Otorhinolaryngology Extra*. Sep 2010; 74 (9): 1097 [case report]
3. **Kohlberg G**, Scognamiglio T, Reisacher W. Pathology Quiz Case 3. Pleomorphic Adenoma of the Nasal Septum. *JAMA Otolaryngology – Head and Neck Surgery*. Apr 2013; 139(4): 427-428 [case report]
4. **Kohlberg G**, Spitzer J, Mancuso D, Lalwani A. Does Cochlear Implantation Restore Music Appreciation? *Laryngoscope*. Mar 2014; 124(3); 587-8 [review]
5. **Kohlberg G**, Stater B, Kutler D, Kuhel W, Cohen M. Carotid Space Mass. *JAMA Otolaryngology – Head and Neck Surgery*. Dec 2014(12) 1237-8. [case report]
6. **Kohlberg G**, Mancuso D, Chari D, Lalwani A. Music Engineering as a Strategy for Enhancing Music Enjoyment in the Cochlear Implant Recipient. *Behavioural Neurology*. 2015:829680 [original work] *
7. Certo M, **Kohlberg G**, Chari D, Mancuso D, Lalwani A. Reverberation Time Influences Musical Enjoyment With Cochlear Implants. *Otology Neurotology*. Feb 2015; 36(2): e46-50 [original work]
8. **Kohlberg G**, Mancuso D, Griffin B, Spitzer J, Lalwani A. Impact of Noise Reduction Algorithm in Cochlear Implant Processing on Music Enjoyment. *Otology Neurotology*. Jun 2016 37(5): 492-8 [original work] *
9. **Kohlberg G**, Stewart M, Ward R, April M. Evaluation and Management of Pediatric Nasal Obstruction: A Survey of Practice Patterns. *American Journal of Rhinology and Allergy*. Jul 2016 30(4):274-8 [original work]
10. **Kohlberg G**, Gal Y, Lalwani A. Development of a Low-Cost, Non-Invasive, Portable Visual Speech Recognition Program. *Annals of Otology, Rhinology & Laryngology*. Sep 2016 125(9):752-7 [original work] *
11. Nemer J, **Kohlberg G**, Mancuso D, Certo M, Griffin B, Lalwani A. Reduction of the Harmonics Series Influences Musical Enjoyment with Cochlear Implants. *Otology Neurotology*. Jan 2017 38(1):31-37 [original work]
12. Hammer M, **Kohlberg G**. Get The Diagnosis: An Evidence Based Medicine Collaborative Wiki for Diagnostic Test Accuracy. *Postmedical Graduate Journal*. Apr 2017 93(1098):179-185 [original work] *
13. Cohen O, Shoffel-Havakuk H, Warman M, Tzelnick S, Haimovich Y, **Kohlberg G**, Halperin D, Lahav Y. Early and Late Recurrent Epistaxis Admissions: Patterns of Incidence and Risk Factors. *Otolaryngology – Head and Neck Surgery*. Sep 2017 157(3):424-431 [original work]
14. Chen S, Griffin B, Mancuso D, Shiao S, DiMattia M, Cellum I, Boyd K, PrevotEAU C, **Kohlberg G**, Spitzer J, Lalwani A. The Development and Validation of the Speech Quality Instrument. *Laryngoscope*. Jul 2018 (7):1622-1627 [original work]
15. Lipschitz N, **Kohlberg G**, Tawfik K, Walters Z, Breen J, Zuccarello M, Andaluz N, Dinapoli V, Pensak M, Samy R. Cerebrospinal Fluid Leak Rate after Vestibular Schwannoma Surgery via Middle

Cranial Fossa Approach. *Journal of Neurological Surgery - Part B*, Sep 2018 79(S 01): S1-S188
10.1055/s-0038-1633652 [original work]

16. Lipschitz N, **Kohlberg G**, Zuccarello M, Samy R. Comprehensive Review of the Extended Middle Cranial Fossa Approach. *Current Opinion in Otolaryngology and Head & Neck Surgery*. Oct 2018 26(5):286-292 [review]
17. **Kohlberg G**, Demmer R, Lalwani A. Adolescent Obesity is an Independent Risk Factor for Sensorineural Hearing Loss: Results from the National Health and Nutrition Examination Survey 2005-2010. *Otology Neurotology*. Oct 2018 39(9):1102-1108 [original work] *
18. **Kohlberg G**, Lipschitz N, Tawfik K, Walters Z, Breen J, Zuccarello M, Andaluz N, Dinapoli V, Pensak M, Samy R. Application of Ultrasonic Bone Aspirator for Decompression of the Internal Auditory Canal via the Middle Cranial Fossa Approach. *Otol Neurotol*. 2019 Jan;40(1):114-120 [original work]
19. Tawfik K, Walters Z, **Kohlberg G**, Lipschitz N, Breen J, O'Neal K, Zuccarello M, Samy R. Impact of Motor Evoked Potential Monitoring On Facial Nerve Outcomes After Neurotologic Surgery. *Annals of Otology, Rhinology & Laryngology*. 2019 Jan;128(1):56-61 [original work]
20. Breen J, Edwards C, Cornelius R, Hazenfield J, **Kohlberg G**, Samy R, Pensak M. Utility of Magnetic Resonance Imaging in Differentiating Cerebrospinal Fluid Leak from Middle Ear Effusion. *Otolaryngol Head Neck Surg*. 2019 Apr 30:194599819847153. [Epub ahead of print] [original work]
21. Lipschitz N, **Kohlberg G**, Scott M, Greinwald JH Jr. Imaging findings in pediatric single-sided deafness and asymmetric hearing loss. *Laryngoscope*. 2019 May. [Epub ahead of print] [original work]
22. Lipschitz N, **Kohlberg G**, Walters Z, Tawfik K, Samy R, Pensak M, Zuccarello M, Andaluz N, Dinapoli V, Breen J. Obesity is Not Associated with Postoperative Complications after Vestibular Schwannoma Surgery in a Large Single Institution Series. [In Press] [original work]

B. Book Chapters

Samy R, **Kohlberg G**. Cost Effective Evaluation and Management of Cranial Nerve 8: Vestibular Disorders in Effective Evaluation and Management of Cranial Neuropathy (in press)

C. Published Books, Videos, Software, etc.

1. Hammer M, **Kohlberg G**. GetTheDiagnosis.org: A Database of Sensitivity and Specificity: <http://getthediagnosis.org>

D. Other publications

Kohlberg G, Samy R. Vestibular Schwannoma. OtoSource Module. American Academy of Otolaryngology – Head and Neck Surgery. <https://www.otosource.org/content/vestibular-schwannoma>

E. Manuscripts Submitted

1. Raghavan A, Lipschitz N, **Kohlberg G**, Samy R, Zuccarello M, Pensak M, Breen J, Is Longer Surgery More Dangerous? Operative Duration Not Associated with Complications after Vestibular Schwannoma Resection [Submitted to *Otology Neurotology* April 2019]

F. Abstracts

1. **Kohlberg G**, Cai W, Dushyant S, Yoshida H, Zalis M. Predicting Primary 2D Interpretive Failure in CT Colonography: An Assessment of Curvature and Distention Based Difficulty Index for Colonic Polyps. Oral presentation, Radiological Society of North America, Chicago, IL, Nov 2005.
2. **Kohlberg G**, Arden N, Wadia P, Chen G, Sirota M, Miklos D, Butte A. Discovery of Novel AML Tumor Associated Antigens Using Antibody Signatures and Gene-Expression Data. Poster presentation, Stanford Medical Student Research Symposium, Stanford, CA May 2008.
3. **Kohlberg G**, Truong M, Chang K. Wegener's Granulomatosis in an Adolescent Presenting with Pachymeningitis, Mastoid Effusion and Horner's Syndrome. Poster presentation, the Society of Ear, Nose and Throat Advances in Children, Salt Lake City, UT, Dec 2009.
4. **Kohlberg G**, Pearlman A. Combined Endoscopic Endonasal and Bifrontal Craniotomy Approach for Treatment of Pediatric Intranasal Meningoencephalocele. Poster presentation, the American Rhinologic Society, Vancouver, BC, Sep 2013.
5. **Kohlberg G**, Mancuso D, Chari D, Lalwani A. Features of Music that Affect its Enjoyment Following Cochlear Implantation. Oral presentation, the American Academy of Otolaryngology – Head and Neck Surgery, Vancouver, BC, Oct 2013.
6. Phillips D, **Kohlberg G**, Maresh A. An Unusual Case of Airway Obstruction Following Traumatic Pharyngoesophageal Perforation in a Newborn. Poster presentation, the Society of Ear, Nose and Throat Advances in Children, St. Louis, MO, Dec 2014.
7. **Kohlberg G**, Benjo-Shor A, Shemer E, Gal Y, Lalwani A. Development of a Low-Cost, Non-Invasive, Portable Visual Speech Recognition Program. Oral presentation, the New York Resident Research Day Symposium, NY, NY, May 2014.
8. **Kohlberg G**, Stater B, Kutler D, Kuhel W, Cohen M. Carotid Space Mass. Poster presentation, the American Head and Neck Society meeting, NY, NY, July 2014.
9. **Kohlberg G**, Stewart M, Ward R, April M. Evaluation and Management of Pediatric Nasal Obstruction: A Survey of Practice Patterns. Poster presentation, the Combined Otolaryngology Spring Meetings, Boston, MA, Apr 2015.
10. Nemer J, **Kohlberg G**, Mancuso D, Certo M, Griffin B, Lalwani A. Reduction of the Harmonics Series Influences Musical Enjoyment with Cochlear Implants. Oral presentation, the Combined Otolaryngology Spring Meetings, Chicago, IL, May 2016.
11. **Kohlberg G**, Tawfik K, Lipschitz N, Samy R, Breen J. Cochlear Implantation in a Patient with Osteogenesis Imperfecta. Video presentation, the American Neurotology Society Fall Symposium, Chicago IL, September 2017.
12. Tawfik K, Walters Z, **Kohlberg G**, Lipschitz N, Breen J, Samy R. Predicting Postoperative Facial Function Using Motor Evoked Potential Monitoring During Neurotologic Surgery. Oral presentation, Triological Society Combined Sections Meeting, Scottsdale, AZ, January 2018.
13. **Kohlberg G**, Lipschitz N, Tawfik K, Breen J, Pensak M, Zuccarello M, Samy R. Cerebrospinal Fluid Leak After Vestibular Schwannoma Surgery Via Middle Cranial Fossa Approach. Poster Presentation, North American Skull Base Society Meeting, Coronado, CA, February 2018.
14. Redmann A, Tawfik K, Wade R, Cyphert K, Antonucci E, Hammer T, Stevens S, Houston L, **Kohlberg G**, Samy R, Breen J. Treatment Pathways After Cochlear Implant Evaluation: Analysis of the Formal Evaluation Process. Oral Presentation, American Cochlear Implant Alliance Meeting, Washington, DC, March 2018.
15. **Kohlberg G**, Demmer R, Lalwani A. Adolescent Obesity is an Independent Risk Factor for Sensorineural Hearing Loss: Results from the National Health and Nutrition Examination Survey (NHANES) 2005-2010. Oral Presentation, Combined Otolaryngology Spring Meetings, National Harbor, MD, April 2018.
16. **Kohlberg G**, Lipschitz N, Walters Z, Tawfik K, Breen J, Zuccarello M, Samy R. Application of Ultrasonic Bone Aspirator for Decompression of the Internal Auditory Canal via the Middle Cranial Fossa Approach. Poster Presentation, Combined Otolaryngology Spring Meetings, National Harbor, MD, April 2018.

17. Breen J, **Kohlberg G**, Samy R, Pensak M. Radiographic Opacification of the Protympanum and Eustachian Tube Predicts Inferior Hearing Outcomes After Ossiculoplasty. Poster Presentation, Combined Otolaryngology Spring Meetings, National Harbor, MD, April 2018.
18. Lipschitz N, **Kohlberg G**, Tawfik K, Breen J, Zuccarello M, Pensak M, Samy R. Simultaneous Combined Middle Cranial Fossa and Retrosigmoid Approach for Hearing Preservation in Vestibular Schwannoma Surgery. Poster presentation, American Academy of Otolaryngology – Head and Neck Surgery, Atlanta, GA, Oct 2018.
19. Lipschitz N, **Kohlberg G**, Samy R, Zuccarello M. Complications of Stereotactic Radiosurgery: Early Hydrocephalus and Late Pneumocephalus. Stereotactic Radiosurgery Study Group, the American Neurotology Society Fall Symposium , Atlanta, GA, Oct 2018.
20. Lipschitz N, **Kohlberg G**, Mitts K, Samy R. Total Facial Nerve Decompression via Combined Middle Cranial Fossa and Transmastoid Approach. Master of Surgery Video Presentation, American Academy of Otolaryngology – Head and Neck Surgery, Atlanta, GA, Oct 2018.
21. Lalwani A, Peng T, Chen S, **Kohlberg G**, Mancuso D, Cellum I. Novel Web-Based Music Re-Engineering Software for Music Enjoyment Among Cochlear Implantees. Oral presentation, American Academy of Otolaryngology – Head and Neck Surgery, Atlanta, GA, Oct 2018.
22. Lipschitz N, **Kohlberg G**, Wannemacher D, Breen J, Tawfik K, Pensak M, Samy R. Hemifacial spasm as a rare clinical presentation of idiopathic intracranial hypertension. (Submitted for presentation, American Academy of Otolaryngology – Head and Neck Surgery, Atlanta, GA, Oct 2018).
23. Breen J, Edwards C, **Kohlberg G**, Samy R, Pensak M. The Utility of Magnetic Resonance Imaging for Diagnosing Cerebrospinal Fluid Leak in the Setting of Middle Ear Effusion. Oral presentation, American Academy of Otolaryngology – Head and Neck Surgery, Atlanta, GA, Oct 2018.
24. Lipschitz N, **Kohlberg G**, Tawfik K, Samy R, Pensak M, Zuccarello M, Breen J. Elevated Body Mass Index is Not Associated with Postoperative Complications after Vestibular Schwannoma Surgery. Oral presentation, American Academy of Otolaryngology – Head and Neck Surgery, Atlanta, GA, Oct 2018.
25. Lipschitz N, **Kohlberg G**, Tawfik K, Breen J, Zuccarello M, Pensak M, Samy, R. Simultaneous Combined Middle Cranial Fossa and Retrosigmoid Approach for Hearing Preservation in Vestibular Schwannoma Surgery. Poster presentation, American Academy of Otolaryngology – Head and Neck Surgery, Atlanta, GA, Oct 2018.
26. Lipschitz N, **Kohlberg G**, Roetting N, Scott M, Greinwald J. Imaging findings in pediatric single sided deafness and asymmetric hearing loss. Oral presentation, the Triological Society Combined Section Meeting, San Diego, CA, Jan 2019
27. Rogers G, Lipschitz N, **Kohlberg G**, Zuccarello M, Samy R. Primary Central Nervous System Lymphoma of the Internal Auditory Canal mimicking Facial Nerve Schwannoma. Poster presentation, the North American Skull Base Society, Orlando, FL, Feb 2019
28. Lipschitz N, **Kohlberg G**, Breen J, Pensak M, Zuccarello M, Andaluz N, Dinapoli V, Samy, R. The extended middle cranial fossa approach for the treatment of skull base lesions. Poster presentation, the North American Skull Base Society, Orlando, FL, Feb 2019
29. Raghavan A, **Kohlberg G**, Lipschitz N, Breen J, Samy R. Visual Speech Recognition Program (VSRP) Improves Speech Perception in Noise. Oral presentation, the American Auditory Society, Scottsdale, AZ, March 2019
30. Raghavan A, **Kohlberg G**, Lipschitz N, Breen J, Samy R. Implementation of Neural Network Based Visual Speech Recognition Program on Bamford-Kowal-Bench Speech in Noise (BKB-SIN) Test. Poster presentation, Triological Society Annual Meeting at COSM, Austin, TX, May 2019
31. Lipschitz N, **Kohlberg G**, Scott M, Greinwald J. The impact of neuropsychiatric diagnosis on treatment choice and utility in pediatric single-sided deafness. Poster presentation, American Society of Pediatric Otolaryngology Annual Meeting at COSM, Austin, TX, May 2019

32. Lipschitz N, **Kohlberg G**, Samy R, Pensak M, Zuccarello M, Breen J. Operative Time and Surgical Risk in Vestibular Schwannoma Surgery. Poster presentation, the American Neurotology Society Annual Meeting at COSM, Austin, TX, May 2019
33. **Kohlberg G**, Lipschitz N, Greinwald J, Choo D. Preliminary Cadaveric Experience with a Novel Endoscopic Ear (EES) Platform. Oral presentation, World Congress on Endoscopic Ear Surgery 3.0, Boston, MA June 2019
34. Lipschitz N, **Kohlberg G**, Breen J, Zuccarello M, Pensak M, Samy R. Results of Salvage Microsurgery after Radiosurgery in Vestibular Schwannoma. Accepted oral presentation to the 8th Quadrennial International Conference on Vestibular Schwannoma and Other CPA Tumors, Rochester, MN
35. Lipschitz N, **Kohlberg G**, Breen J, Howard J, Zuccarello M, Pensak M, Samy R. Delayed Facial Palsy following Middle Cranial Fossa Approach to Vestibular Schwannoma Resection. Accepted oral presentation to the 8th Quadrennial International Conference on Vestibular Schwannoma and Other CPA Tumors, Rochester, MN, June 2019
36. **Kohlberg G**, Lipschitz N, Raghavan A, Hazenfield J, Breen J, Pensak M, Zuccarello M, Samy R. Feasibility of Extended Middle Cranial Fossa Approach to the Internal Auditory Canal and Cerebellopontine Angle: Volumetric Comparison to Translabyrinthine Approach. Accepted oral presentation to the 8th Quadrennial International Conference on Vestibular Schwannoma and Other CPA Tumors, Rochester, MN, June 2019
37. **Kohlberg G**, Lipschitz N, Breen J, Pensak M, Zuccarello M, Samy, R. Middle Cranial Fossa Approach to Acoustic Neuroma Resection in Older Patient Population. Accepted oral presentation to the 8th Quadrennial International Conference on Vestibular Schwannoma and Other CPA Tumors, Rochester, MN, June 2019
38. Lipschitz N, **Kohlberg G**, Scott M, Greinwald J. Socioeconomic Disparities in the Treatment of Pediatric Single Sided Deafness. Accepted oral presentation to the AAO-HNSF 2019 Annual Meeting & OTO EXPO.
39. Raghavan A, **Kohlberg G**, Lipschitz N, Breen J, Samy R. Use of Artificial Intelligence to Increase Speech Perception in Noise. Accepted oral presentation to the AAO-HNSF 2019 Annual Meeting & OTO EXPO.
40. Lipschitz N, **Kohlberg G**, Scott M, Greinwald J. Does Severity of Pediatric Single Sided Deafness Affect Treatment Outcomes? Accepted poster presentation to the AAO-HNSF 2019 Annual Meeting & OTO EXPO.
41. Moore C, Lipschitz N, **Kohlberg G**, Dinapoli V, Breen J, Samy, R. Solid Non-Enhancing Cerebellopontine Angle Mass Confirmed Vestibular Schwannoma: Case Report and Literature Review. Accepted poster presentation to the AAO-HNSF 2019 Annual Meeting & OTO EXPO.
42. *Shapiro S, Lipschitz N, **Kohlberg G**, Breen J, Zuccarello M, Samy R. Continued Tumor Growth after Near-Total Resection and Stereotactic Radiosurgery: Management Decision-Making. Accepted oral presentation at Stereotactic Radiosurgery Study Group at American Neurotology Society. September 2019*

17. OTHER

1. Zalis M, **Kohlberg G**. Method and Apparatus for Processing Images In a Bowel Subtraction System. Provisional patent. Apr 2004

A. Invited National and International Lectures:

1. Visual Speech Recognition Program (VSRP) Improves Speech Perception in Noise. Invited lecture. Hear in Cincinnati conference. Cincinnati, OH, February 2019.