

NEEL K BHATT, MD
Curriculum Vitae

EDUCATION AND TRAINING

Indiana University, Department of Biology <i>Bachelor of Science, Biology</i>	Bloomington, IN 2002-2006
Indiana University Purdue University Indianapolis (IUPUI) <i>Master of Science, Biology</i>	Indianapolis, IN 2006-2008
Indiana University School of Medicine <i>Doctor of Medicine</i>	Indianapolis, IN 2008-2012
Washington University School of Medicine, Dept. of Otolaryngology <i>Post doctorate researcher, T32 NIH-NIDCD</i>	St Louis, MO 2014-2016
Washington University in St Louis, Dept. of Otolaryngology <i>Residency in Otolaryngology</i>	St Louis, MO 2012-2019
University of Southern California, Dept. of Otolaryngology <i>Fellowship in Laryngology</i>	Los Angeles, CA 2019 – 2020

ACADEMIC APPOINTMENTS

Clinical Instructor Dept of Otolaryngology – Head and Neck Surgery, University of Southern California	2019 – 2020
Assistant Professor Dept of Otolaryngology – Head and Neck Surgery, University of Washington	2020 – current

LICENSURE AND CERTIFICATIONS

Active Licensure:

08/2020 – present, Washington State, MD61074832, Active

Board Certification:

03/2021 – American Board of Otolaryngology – Head and Neck Surgery, Certified through 2031

LEADERSHIP AND COMMITTEE POSITIONS

2011-2012	Student Representative, Basic sciences curriculum committee, Indiana University School of Medicine
2014-2016	Post-doctoral researcher in Otolaryngology, Washington University School of Medicine
2014-2015	Centralized Otolaryngology Research Effort (CORE) Study Section reviewer – American Academy of Otolaryngology - Head and Neck Sub-committee
2019	Chief resident representative, Residency interview committee – Washington University Dept of Otolaryngology
2020-present	Committee member, UW Dept of Otolaryngology – HNS Research Committee
2020-present	Laryngology Research Meeting – Dept of Otolaryngology – HNS. University of Washington
2020-present	Performing Voice Clinic – Dept of Otolaryngology – HNS. University of Washington

2022-present	Department of Otolaryngology – HNS Medical Student Liaison – Montlake Campus
2024	Fall Voice Conference – Program Committee, Phoenix, AZ
2024-present	Editorial Board – Stroboscopy dot org
2025	Triological Society Combined Sections Meeting – Program Committee, Orlando, FL

HONORS AND AWARDS

2002-2006	Scholarship, Science, Technology and Research Scholar (STARs), Indiana University
2009	Scholarship, Research in Academic Medicine, Indiana University
2009, 2010	Medical Student Council, Dean-appointed student representative
2012	Winning Poster - Triological Society Combined Sections Meeting, Miami, FL
2016	Winning Poster - American Laryngological Association (ALA) at COSM, Chicago, IL
2016	Steven Dean Gray Research Award - American Broncho-Esophagological Association (ABEA) at COSM, Chicago, IL
2017	Ogura-Harkins Case Competition, St Louis, MO – 2 nd Place
2017	Steven Dean Gray Research Award - American Broncho-Esophagological Association (ABEA) at COSM, San Diego, CA
2018, 2019	Paparella Clinical Research Award, St Louis, MO
2019	Joseph M Chole Humanitarian Award, Washington Univ. Dept of Otolaryngology, St Louis, MO
2021	Career Development Research Award – Triological Society
2023	American Laryngological Association (ALA) Post-graduate Research Award, COSM, Boston, MA
2023	Laryngoscope – Distinguished Scientific Reviewer
2024	Triological Society Fellow
2024	Best of Scientific Presentations – AAO-HNSF Meeting, Miami, FL
2025	Winning Poster - Triological Society Combined Sections Meeting, Orlando, FL

MENTORED RESEARCH EXPERIENCE

Otolaryngology, Basic Science Research in Muscle Stem Cells

Indianapolis, IN

Mentor: Stacey Halum, MD

2011-2012

- Analyzed co-cultures of muscle stem cells and motor-neurons from CN X
- Developed staining methods for visualizing motor end-plates with immunofluorescence

Otolaryngology, Translational and Clinical Research in Laryngeal Innervation and RLN Injury

St Louis, MO

Postdoctoral Researcher; Mentor: Randal Paniello, MD, PhD

2014-2019

- Measuring laryngeal innervation using laryngeal nerve conduction studies in a canine model
- Assessing the utility of laser-nerve welding and chitosan polymer in a rat model
- Conducting randomized clinical trial assessing post-operative voice rest following thyroplasty

PEER-REVIEWED PUBLICATIONS

1. Paniello RC, Park AM, **Bhatt NK**, Al-Lozi M. Recurrent laryngeal nerve recovery patterns assessed by serial electromyography. *Laryngoscope* 2016 Mar. PMID: 26879238
2. Sand, J P, Park, AM, **Bhatt N**, Desai S. C Marquardt L, Sakiyama-Elbert S, Paniello, RC, Comparison of Conventional, Revascularized, and Bioengineered Methods of Recurrent Laryngeal Nerve Reconstruction. *JAMA Otolaryngol Head Neck Surg.* 2016 Jun 1. PMID: 27149421
3. **Bhatt NK**, Park AM, Al-Lozi M, Paniello RC. Compound Motor Action Potential Quantifies Recurrent Laryngeal Nerve Innervation in a Canine Model. *Ann Otol Rhinol Laryngol.* 2016 Jul. PMID: 26969454

4. Paniello RC, **Bhatt NK**. Glottic closing force versus laryngeal adductory pressure in the canine larynx. *Ann Otol Rhinol Laryngol*. 2017 Mar. PMID: 28195018
5. Park AM, **Bhatt NK**, Paniello RC. Paclitaxel inhibits post-traumatic recurrent laryngeal nerve regeneration into the posterior cricoarytenoid muscle in a canine model. *Laryngoscope*. 2017 Mar. PMID: 27900774
6. **Bhatt NK**, Mejias C, Kallogjeri D, Gale DC, Park AM, Paniello RC. Potassium titanyl phosphate laser welding following complete nerve transection. *Laryngoscope*. 2017 Jul. PMID: 27859300
7. Vila PM, Townsend ME, **Bhatt NK**, Kao WK, Sinha P, Neely JG. The *P* value problem in otolaryngology shifting to effect sizes and confidence intervals. *Otolaryngol Head Neck Surg*. 2017 Jun. PMID: 28566048
8. **Bhatt NK**, Park AM, Al-Lozi MT, Gale DC, Paniello RC. Compound motor action potential duration and latency are markers of recurrent laryngeal nerve injury. *Laryngoscope*. 2017 Aug. PMID: 28224637
9. **Bhatt NK**, Khan TR, Mejias C, Paniello RC. Nerve transection repair using laser-activated chitosan in a rat model. *Laryngoscope*. 2017 Aug. PMID: 28349572
10. Gale DC, **Bhatt NK**, Paniello RC. Quantification of rat supraglottic laryngeal sensation threshold. *Laryngoscope*. 2017 Aug. PMID: 28195018
11. Zenga J, Haughey BH, Jackson RS, Adkins DR, Aranake-Chrisinger J, **Bhatt N**, Gay HA, Kallogjeri D, Martin EJ, Moore EJ, Paniello RC, Rich JT, Thorstad WL, Nussenbaum B. Outcomes of surgically treated human papillomavirus-related squamous cell carcinoma with N3 disease. *Laryngoscope*. 2017 Sept. PMID: 28008626
12. Vila PM, **Bhatt NK**, Paniello RC. Early injection laryngoplasty may lower risk of thyroplasty: a systematic review and meta-analysis. *Laryngoscope*. 2018 Apr. PMID: 29355983
13. Paniello RC, Halum SL, **Bhatt NK**, Bijangi-Vishehsaraei K, Zhang H, Brookes S. Improved adductor function after canine recurrent laryngeal nerve injury and repair using muscle stem cells. *Laryngoscope*. 2018 Jul. PMID: 29219186
14. Paniello RC, **Bhatt NK**, Chernock RD. Toxicity trial of canine posterior cricoarytenoid intramuscular vincristine injections. *Laryngoscope*. 2018 Jul. PMID: 29219188
15. **Bhatt NK**, Kang LI, El-Mofty SK, Nussenbaum B, Pipkorn P. Emergent parotidectomy after parotid lymphatic malformation hematoma. *Otolaryngology Case Reports*. 2018 June.
16. **Bhatt NK**, Kao WTK, Paniello RC. Compound motor action potential measures acute changes in laryngeal innervation. *Ann Otol Rhinol Laryngol*. 2018 Oct. PMID: 30009631
17. **Bhatt NK**, Pipkorn P, Paniello RC. Association between upper respiratory infection and idiopathic unilateral vocal fold paralysis. *Ann Otol Rhinol Laryngol*. 2018 Oct. PMID: 30124061
18. Dang RP, **Bhatt NK**, Rizzi C, Chi JJ. Oculorespiratory reflex during repair of an orbital fracture. *JAMA Otolaryngol Head Neck Surg*. 2019 Feb. PMID: 30730542
19. **Bhatt NK**, Faddis BT, Paniello RC. Laryngeal adductor function following KTP laser welding of the recurrent laryngeal nerve. *Laryngoscope*. 2020 Jul. PMID: 3156750
20. **Bhatt NK**, Wu FM, Darki L, O'Dell K, Paniello RC, Johns MM. Development of in-office laryngeal nerve conduction studies: computed tomography and cadaveric study. *Laryngoscope*. 2020. PMID: 32827336
21. **Bhatt NK**, Mendoza J, Kallogjeri D, Hardi AC, Bradley JP. Comparison of surgical treatments for Zenker Diverticulum: A systematic review and network meta-analysis. *JAMA Otolaryngology – Head and Neck Surgery*. Dec 2020. PMID: 33270099

22. **Bhatt NK**, Gao WZ, Reder LS, O'Dell K. Novel use of ultrasonic aspirator device for cricoid chondroma resection. *Laryngoscope*. 2020. PMID: 33107630
23. Timmons Sund L, **Bhatt NK**, Kim W, Ference E, Johns MM. Emission during voice assessment and therapy tasks in a single subject. *Journal of Voice*. Oct 2020. PMID: 33268220
24. Timmons Sund L, Collum JA, **Bhatt NK**, Hapner ER. VHI-10 scores in a treatment-seeking population with dysphonia. *Journal of Voice*. Dec 2021. PMID: 33451893
25. Pazak J, **Bhatt NK**, Levy A, Schick S, O'Dell K. Incidental laryngeal findings on bedside flexible endoscopic evaluation of swallowing in a community hospital setting. *Ann Otol Rhinol Laryngol*. 2021. PMID: 33412928.
26. **Bhatt NK**, Gao WZ, Timmons Sund L, Castro ME, O'Dell K, Johns MM. Platelet-rich plasma injection for vocal fold scar: a preliminary report of concept. *Journal of Voice*. 2021. PMID: 33446439
27. Zheng M, Arora N, **Bhatt NK**, O'Dell K, Johns MM. Factors associated with tolerance for in-office laryngeal laser procedures. *Laryngoscope*. 2021. PMID: 33405311.
28. Boles RW, Gao WZ, Johns MM, Daniero JJ, Grant NN, Rubin AD, **Bhatt NK**, Hapner ER, O'Dell K. Flexible vs rigid laryngoscopy: a prospective, blinded comparison of image quality. *Journal of Voice*. 2021. PMID: 33775470.
29. Choi JS, Yin V, Wu F, **Bhatt NK**, O'Dell K, Johns MM. Utility of telemedicine for diagnosis and management of laryngology-related complaints during COVID-19. *Laryngoscope*. 2021. PMID: 34403152.
30. **Bhatt NK**, Huang VP, Bertelsen C, Gao WZ, Reder LS, Johns MM, O'Dell K. Pulmonary function tests may better predict dyspnea-severity in patients with subglottic stenosis compared to clinician-reported stenosis. *Ann Otol Rhinol Laryngol*. 2021 Sept 8. PMID: 34496642
31. Garber D, Wandell GM, Gobillot TA, Merati A, **Bhatt NK**, Giliberto JP. Safety and predictors of 30-day adverse events of laryngeal framework surgery: an analysis of ACS-NSQIP data. *Laryngoscope*. 2021 Nov 2. PMID: 34726793.
32. Castro E, Timmons Sund L, **Bhatt NK**, Hapner ER. Linguistic relevance and applicability of the Spanish VHI-10 in a population outside Spain. *Folia Phon et Logopaedica*. 2021. PMID: 3479357
33. Van der Woerd B, O'Dell K, Castellanos CX, **Bhatt N**, Benssousan Y, Reddy NK, Blood T, Chhetri DK, Johns MM. "Safety of platelet-rich plasma subepithelial infusion for vocal scar, sulcus, and atrophy." *Laryngoscope*, 2022. PMID: 35822344
34. Dixon CS, Baertsch H, **Bhatt NK**, Bauer E, Paniello RC. Etiology and management of bilateral vocal fold paralysis: a retrospective cohort study. *Journal of Voice*, 2022.
35. Baertsch H, **Bhatt NK**, Giliberto JP, Dixon C, Merati AL, Sauder C. Quantification of vocal fold atrophy in age-related and Parkinson's Disease-related vocal atrophy. *Laryngoscope*, 2022. PMID: 36111826
36. Amador R, Goebel R, Noordzij JP, **Bhatt NK**, Cohen S, Daniels K, Tracy L, Yajima M, Krisciunas GP. A systematic review and meta-analysis of neuromodulators to treat chronic airway hypersensitivity. *American Journal of Otolaryngology*. 2023.
37. Cvancara DJ, Baertsch HC, Lehmann AE, Humphreys IM, Farrell NF, Marshall TB, **Bhatt NK**, Abuzeid WM, Jafari A. Postmarketing reporting of Paxlovid-related dysgeusia: a real-world pharmacovigilance study. *Otolaryngology Head Neck Surgery*. 2023. PMID: 36821807

38. **Bhatt NK**, Garber D, Baertsch H, Beard L, Giliberto JP, Meyer TK, Merati AL, Sauder C. Treatments for age-related vocal atrophy: a systematic review. *Laryngoscope*. 2023. PMID: 36912397
39. Lagos-Villaseca A, **Bhatt NK**, Abdolhosseini P, Quinonez L, Paoletti M, Gochman G, Johns MM, Rosen CA, Kao T, Meyer TK. Short interval botulinum toxin chemodenervation treatment for laryngeal dystonia and essential tremor of the vocal tract. *JAMA Otolaryngology – Head and Neck Surgery*. 2023. PMID: 37227721.
40. Baertsch H, Cvancara D, **Bhatt NK**. Utilizing novel recurrent laryngeal motor nerve conduction studies to characterize the aging larynx: A pilot study. *Laryngoscope Investigative Otolaryngology*. 2023. PMID: 37342107.
41. Zheng M, Wandel G, Maxin, Giliberto JP, **Bhatt NK**. Sociodemographic disparities in tracheostomy timing and outcomes. *Laryngoscope*. 2023. PMID: 37584408.
42. Baertsch H, Cvancara DJ, Paniello RC, Hillel AD. **Bhatt NK**. Recurrent laryngeal motor nerve conduction studies in a rat model: establishing an objective measure for investigating laryngeal innervation. *Muscle & Nerve*. 2023. PMID: 37575043.
43. Gao W, Shuman E, **Bhatt NK**, Grant NN, Odell K, Johns MM. Prospective >12 Months Outcomes after Vocal Fold Injection Medialization with Silk Microparticle-Hyaluronic Acid (Silk-HA). *Laryngoscope*, 2023.
44. Cvancara DJ, de Leon JA, Hollenbaugh E, Giliberto JP, Zheng M, **Bhatt NK**. Quantitative evaluation of vocal bowing following bilateral thyroplasty in age-related vocal atrophy. *Laryngoscope*. 2023.
45. Cvancara DJ, de Leon JA, Baertsch H, Jaleel Z, Kinney G, Martinez V, **Bhatt NK**. Neurophysiology of the superior laryngeal nerve using an *in vivo* rat model. *Laryngoscope*. 2023. PMID: 37787452
46. Pan C, Johnson E, Andrews LI, Johnson E, **Bhatt NK**, Rizvi Z. Factors associated with successful electrolarynx use after total laryngectomy: a multi-institutional study. *Laryngoscope Investigative Otolaryngology*. 2024. PMID: 38362175.
47. Al-awadi H, Zughni L, Knutson M, Carlson A, Aboueisha MA, Jaleel ZA, Merati AL, **Bhatt NK**. Streamlining quantification of age-related vocal atrophy. *Laryngoscope Investigative Otolaryngology*. 2024.
48. Jaleel ZA, Aboueisha MA, **Bhatt NK**. Recordings of superior laryngeal nerve sensory nerve action potentials in a rat model. *Laryngoscope*. 2024. PMID: 39132845.
49. Aboueisha MA, Sauder C, Jaleel ZA, Fatahallah Y, Adcock K, Al-awadi H, Jafari A, **Bhatt NK**. Endoscopic distance and its impact on quantified age-related vocal atrophy measures. *Laryngoscope*. 2024. PMID: 38877827.
50. Santa Maria C, Shuman E, Castellanos C, Gao W, **Bhatt NK**, Chhetri D, Odell K, Johns MM. Prospective outcomes after serial platelet-rich plasma injection in vocal fold scar and sulcus. *Laryngoscope*. 2024. PMID: 39115162.
51. De Leon J, Carlson A, Cvancara D, Rizvi Z, Sauder C, Giliberto JP, **Bhatt NK**. Quantifying health utility of age-related vocal atrophy. *Laryngoscope*. 2024. PMID: 39460679.
52. Aboueisha MA, Jaleel ZA, Baertsch H, Sauder C, Merati AL, Johns MM, **Bhatt NK**. Inter-rater and intra-rater reliability of GlottIC: a mobile application to quantify vocal fold bowing. *Laryngoscope*. 2024. (In-press).

PERIODICAL PUBLICATIONS

1. **Bhatt NK**, Johns MM. What's old and new in vocal tremor? *Tremor Talk*. International Essential Tremor Foundation. Issue 27. January 2019.
2. **Bhatt NK**. Why do we hate the sound of our own voices? *The Conversation*. Published online: May 17, 2021.

3. **Bhatt NK**, Gao WZ, Reder LS, O'Dell K. Novel use of ultrasonic aspirator device for cricoid chondroma resection. *ENT Today*. September 2022.

TEXTBOOK CHAPTERS

1. **Bhatt N**, Psychotic Behavior in the Intensive Care Unit: ICU Delirium. *Winning Orations of the Interstate Oratorical Association*. Communication Links. Mankato: 2005.
2. **Bhatt NK**, Halum SL. Management of Oropharyngeal Dysphagia. *Total Otolaryngology*, New York Thieme Publishers, 2014.
3. **Bhatt N**, Chen C, Gross J, L'Esperance HE, Lieu J, Vila PM. Otolaryngology. *The Washington Manual – Internship Survival Guide – Fifth Edition*. Philadelphia: Walters Kluwer, 2019.
4. **Bhatt NK**, Blumin JA. Decision making around reinnervation. *Decision Making in Vocal Fold Paralysis: A Guide to Clinical Management*. Springer, 2019.
5. **Bhatt NK**, Meyer TK. Neurologic disorders of the larynx. *Bailey's Head and Neck Surgery*. Sixth edition. 2021
6. **Bhatt NK**, O'Dell K. 2021. Etiology and management of laryngotracheal stenosis. Decker Med, 2021

GRANT SUPPORT

Present and Awarded

1. **Triological Society** – Career Development Award. Laryngeal nerve conduction studies using an in vivo total laryngectomy model. Dates: 9/1/21 – 9/1/24. Amount: \$40,000. **PI: Neel K Bhatt, MD**
2. **AAO-HNSF CORE Grant** – Resident Research Award. Amount: \$10,000, Effect of aging on superior laryngeal nerve motor and sensory function in rats. Dates 7/1/23 – 6/30/24. Amount: \$10,000. Principal Investigator: Zaroug Jaleel, MD. **Mentor: Neel K. Bhatt, MD**
3. **AAO-HNSF CORE Grant** – Resident Research Award. Superior laryngeal nerve function in a rat model of Alzheimer's disease. Dates 7/1/24 – 6/30/25. Amount: \$10,000. Principal Investigator: Zaroug Jaleel, MD. **Mentor: Neel K. Bhatt, MD**.

Submitted

1. **Mentored Clinician Scientist Research Career Development Award (K08)** – Neuromuscular changes in the aging larynx. NIH/National Institute on Aging. **PI: Neel K. Bhatt, MD**. Impact score 25.
2. **Clinical Coordinating Center for Multi-Site Investigator-Initiated Clinical Trials (UG3/UH3)**. Efficacy of Amitriptyline to treat Chronic Airway Hypersensitivity. NIH/NHLBI. PI: Pieter Noordzij, MD (Boston Univ). **Site PI: Neel K. Bhatt, MD**. Impact Score 52.

Pending

1. **Exploratory/Developmental Grant (R21)** – Motor and sensory changes in swallow function in a rat model of Alzheimer's disease. National Institute on Aging. **PI: Neel K. Bhatt, MD**

SCIENTIFIC JOURNAL REVIEW

Reviewer for <i>Annals Otolaryngology, Rhinology, Laryngology</i>	2017 – Current
Reviewer for <i>The Laryngoscope</i>	2020 – Current
Reviewer for <i>Journal of Voice</i>	2021 – Current
Reviewer for <i>JAMA – Otolaryngology</i>	2023 – Current

MEDICAL STUDENT AND RESIDENT MENTORSHIP

2021 – 2022	Hans Baertsch, M.D.	USC Medical Student
	During his dedicated research year at UW, Hans helped to develop the technique for motor evoked laryngeal responses in a rodent model. Hans is an OTOHNS resident at the University of Minnesota.	
2022	Julio DeLeon	UW Medical Student
2022 – 2023	David J. Cvancara	UW Medical Student
	During his dedicated research year at UW, Dax developed a method to electrically stimulate the superior laryngeal nerve, measure laryngeal adductor reflexes, and quantify cricothyroid muscle function in rodents. Dax is an OTOHNS resident at the University of Minnesota.	
2023 – 2024	Zaroug Jaleel, M.D.	UW OTOHNS Resident
	OTOHNS resident during T32 research year studying the effects of aging on superior laryngeal nerve function in rodents. AAO-HNSF CORE grant recipient 2023 and 2024.	
2023	Kelson Adcock	UW Medical Student
2023 – 2024	Mohamed Aboueisha, M.D.	International Post-doc
	Mohamed completed his dedicated research year at UW. He studied quantitative measures of age-related vocal atrophy. Mohamed is a fellow in Laryngology at UC Davis.	
2024	Carson Miller	UW Medical Student
2024	Byron Kim	UW Medical Student
2024	Alice Cheng	Albany Medical Student
2024-2025	Mahdi Alghezi	UW Medical Student
	Mahdi is in his dedicated research year between 3 rd and 4 th years of medical school. He is studying quantification of aspiration in a rat model.	

PRESENTATIONS

A. Scientific Presentations (*First and senior author*)

1. **Bhatt NK**, Bijangi-Vishehsaraei K, Hiatt K, McRae B, Halum SL. Co-culture of muscle stem cells (MSCs) and vagus nerve (VN) derived motor neurons: tissue engineering through establishment of neuromuscular junctions. Poster Presentation. Triological Combined Sections Meeting. Miami, FL. January 26-28, 2012.
2. **Bhatt NK**, Park AM, Al-Lozi MT, Paniello RC. Compound Motor Action Potential Quantifies Recurrent Laryngeal Nerve Innervation. Poster Presentation. American Broncho-Esophagological Association Meeting. Boston, MA, April 22-23, 2015.
3. **Bhatt NK**, Kallogjeri D, Park AM, Perlmutter J, Paniello RC. Outcome Clustering Following Treatment of Spasmodic Dysphonia. Podium Presentation. American Academy of Otolaryngology – Head and Neck Society. Dallas, TX. September 27-30, 2015.
4. **Bhatt NK**, Grindler DJ, Spataro EA, Kallogjeri D, Paniello RC. Natural history of symptomatic recovery from unilateral vocal fold paralysis. Podium Presentation. Triological Combined Sections Meeting. Miami, FL. January 22-24th, 2016.
5. **Bhatt NK**, Park AM, Al-Lozi MT, Gale DC, Paniello RC. Compound motor action potential duration and latency are markers of recurrent laryngeal nerve injury. Poster Presentation. American Laryngological Association Meeting. Chicago, IL, May 19th, 2016.
6. **Bhatt NK**, Mejias C, Gale D, Park AM, Paniello RC. Promoting nerve recovery following complete transection with laser nerve welding. Podium Presentation. American Broncho-Esophagological Association Meeting. Chicago, IL. May 19th, 2016.
7. **Bhatt NK**, Khan TC, Mejias C, Paniello RC. Nerve transection repair using chitosan biopolymer in a rat model. Podium Presentation. Triological Combined Sections Meeting, New Orleans, LA. January 19, 2017.
8. **Bhatt NK**, Kao WK, Paniello RC. Compound motor action potential measures acute changes in laryngeal innervation. Podium Presentation. American Broncho-Esophagological Association Meeting. San Diego, CA. April 26, 2017.

9. **Bhatt NK**, Pipkorn P, Paniello RC. Association between upper respiratory infection and idiopathic unilateral vocal fold paralysis. Podium Presentation. Fall Voice Conference. Washington, DC. October 13th, 2017.
10. **Bhatt NK**, Park AM, Bradley JP, Harmon A, Kallogjeri D, Paniello RC. Poster Presentation. Assessing patient compliance to postoperative voice rest following laryngeal surgery. American Broncho-Esophagological Association Meeting. National Harbor, MD. April 18, 2018.
11. **Bhatt NK**, Park AM, Bradley JP, Harmon A, Kallogjeri D, Paniello RC. Poster Presentation. Comparing the utility of 3-day vs. 10-day voice rest following type 1 thyroplasty. American Laryngological Association Meeting. National Harbor, MD. April 18th, 2018.
12. **Bhatt NK**, Paniello RC. Laryngeal adductor function following KTP laser welding of the recurrent laryngeal nerve. Podium Presentation. American Laryngological Association. National Harbor, MD. April, 18, 2018.
13. **Bhatt NK**, Mendoza JM, Kallogjeri D, Bradley JP. Comparison of staple-assisted diverticulotomy, laser-assisted diverticulotomy, and transcervical diverticulectomy for Zenker's diverticulum: A systematic review and meta-analysis. Podium Presentation. American Laryngological Association. May 1-3, 2019. Austin, TX.
14. **Bhatt NK**, Wu FM, Darki L, O'Dell K, Paniello RC, Johns MM. Toward the development of in-office evoked laryngeal electromyography: computed tomography and cadaveric study. Podium presentation. American Broncho-Esophagological Association Meeting. Atlanta, GA (Cancelled due to COVID-19)
15. **Bhatt NK**, Gao W, Reder L, O'Dell K. Novel use of ultrasonic aspirator system for cricoid chondroma resection. Poster Presentation. American Broncho-Esophagological Association Meeting. Atlanta, GA
16. **Bhatt NK**, Huang V, Bertelsen C, Gao W, Reder LS, Johns MM, O'Dell K. Pulmonary function tests better predict dyspnea severity in patients with subglottic stenosis compared to clinician-reported stenosis. Podium Presentation (virtual meeting). Fall Voice Conference. Los Angeles, CA, October 24th, 2020.
17. **Bhatt NK**, Bauer E, Paniello RC. Bilateral vocal fold paralysis: a case series. Poster presentation. (virtual meeting) American Broncho-Esophagological Association Meeting. April 7th, 2021
18. **Bhatt NK**, Garber D, Beard L, Giliberto JP, Meyer TK, Merati AL, Sauder C. Treatments for age-related vocal atrophy: a systematic review. Poster Presentation. Fall Voice Conference. Miami, FL, October 23rd, 2021.
19. **Bhatt NK**, Baertsch H, Marcinek D, Rubinstein JT, Paniello RC, Meyer TK, Merati AL, Hillel AD. Using nerve conduction studies to understand the aging larynx in a rat model. Poster Presentation. American Broncho-Esophagological Association Meeting. Dallas, TX. April 27th, 2022.
20. Baertsch H, Sauder C, Giliberto JP, Dixon C, Merati AL, Sauder C, **Bhatt NK**. Objective Measures of Vocal Atrophy: Comparison of Findings in Presbylaryngis and Parkinson's Disease. Podium Presentation. American Laryngological Association Meeting, Dallas, TX. April 29th, 2022.
21. Baertsch H, Sauder C, Giliberto JP, Dixon C, Merati AL, Sauder C, **Bhatt NK**. Quantification of vocal fold atrophy in age-related and Parkinson's Disease-related vocal atrophy. Podium Presentation. Fall Voice Conference, October 8th, 2022.
22. Baertsch H, Cvancara D, **Bhatt NK**. Comparison of recurrent laryngeal evoked studies in young and aged rats. Podium Presentation. Triological Society. Coronado, CA. January 26-28th, 2023.
23. Kempthorne D, Baertsch H, Giliberto JP, **Bhatt NK**. Effects on swallow after bilateral injection laryngoplasty for age-related vocal atrophy. Poster Presentation. Triological Society. Coronado, CA. January 26-28th, 2023.
24. Cvancara D, Baertsch H, De Leon J, Hollenbaugh E, Castiller A, **Bhatt NK**. The assessment of anatomic changes in age-related vocal fold atrophy: a laryngostroboscopic study. Poster Presentation. Triological Society. Coronado, CA. January 26-28th, 2023.

25. Cvancara DJ, De Leon JA, Baertsch HC, Hollenbaum ED, Martinez, V, Kinney GA, **Bhatt NK**. Neurophysiology of the superior laryngeal nerve using an *in vivo* rat model. Podium Presentation. American Laryngological Association Meeting. Boston, MA, May 7th, 2023.
26. Baertsch H, Cvancara DJ, Sauder C, Johns MM, **Bhatt NK**. Quantification of application: GlottIC. Podium Presentation. Fall Voice Conference. Washington, DC. October 20th, 2023.
27. Cvancara DJ, De Leon JA, Baertsch HC, Hollenbaum ED, Martinez, V, Kinney GA, **Bhatt NK**. Neurophysiology of the superior laryngeal nerve using an *in vivo* rat model. Podium Presentation. Fall Voice Conference. Washington, DC. October 21st, 2023.
28. Al-Awadi HA, Zughni L, Knutson M, Carlson A, Aboueisha MA, Jaleel ZA, Merati AL, **Bhatt NK**. Streamlining quantification of age-related vocal atrophy. Podium Presentation. Triological Society. West Palm Beach, FL. January 25th, 2024.
29. Jaleel ZA, Aboueisha MA, Perkel DJ, **Bhatt NK**. Durable recording of superior laryngeal nerve sensory nerve action potentials in a rodent laryngeal model. Podium Presentation. Triological Society. West Palm Beach, FL. January 25th, 2024.
30. Aboueisha MA, Jaleel ZA, Sauder C, **Bhatt NK**. Endoscopic distance and its impact on vocal fold bowing in patients with age-related vocal atrophy. Podium Presentation. Triological Society. West Palm Beach, FL. January 25th, 2024.
31. Aboueisha MA, Jaleel ZA, Sauder C, Johns MM, Merati AL, **Bhatt NK**. Inter-rater and intra-rater reliability of GlottIC: a mobile application to quantify vocal fold bowing. Podium Presentation. American Broncho-Esophagological Association Meeting. May Chicago, IL. May 19, 2024.
32. Jaleel ZA, Aboueisha MA, Fitzgerald A, Perkel DJ, **Bhatt NK**. Force measurements with stimulated swallow response in a rat model: a novel method for quantifying in-vivo swallow function. Podium Presentation. American Broncho-Esophagological Association Meeting. Chicago, IL. May 17, 2024.
33. Jaleel ZA, Aboueisha MA, Al-Awadi HA, Merati AL, Kinney G, Martinez V, **Bhatt NK**. Laryngeal evoked responses during total laryngectomy: an in-vivo study of the aging larynx. Podium Presentation. American Laryngological Association. Chicago, IL. May 16, 2024.
34. Jaleel ZA, Aboueisha MA, Perkel DJ, **Bhatt NK**. Effects of aging on superior laryngeal sensory and motor function in an aging rat model. Podium Presentation. American Academy of Otolaryngology – Head and Neck Society. Miami, FL. September 28th, 2024.
35. Jaleel ZA, Aboueisha MA, **Bhatt NK**. Recordings of superior laryngeal nerve sensory nerve action potentials in a rat model. Podium Presentation. Fall Voice Conference. October 25th, 2024.
36. Aboueisha MA, Sauder C, Jaleel ZA, Fatahallah Y, Adcock K, Al-awadi H, Jafari A, **Bhatt NK**. Endoscopic Endoscopic distance and its impact on quantified age-related vocal atrophy measures. Podium Presentation. Fall Voice Conference. October 25th, 2024.
37. Cheng A, Algezei MA, Miller C, Kim B, Pryor J, Gao WZ, **Bhatt NK**. Impact of mild frailty on quantitative measures of oropharyngeal dysphagia. Podium Presentation. Triological Society Combined Sections Meeting. Orlando, FL. January 25th, 20205.

B. Grand Rounds

1. University of Washington Department of Otolaryngology – HNS. The utility of evoked laryngeal electromyography (eLEMG): a clinical and research tool. Seattle, WA, December 11th, 2019.
2. University of Pennsylvania – Department of Otorhinolaryngology – HNS. Using evoked laryngeal electromyography (eLEMG) to describe the aging voice: a clinical and research tool. Philadelphia, PA, January

16th, 2020.

3. University of Southern California –Department of Otolaryngology – HNS. Using evoked laryngeal electromyography (eLEMG) to better described the aging voice: a clinical and research tool. Los Angeles, CA, April 25th, 2020.
4. University of California San Diego – Dept of Otolaryngology – HNS. Management of the aging larynx. Grand Rounds. December 1st, 2023.
5. University of Texas Health – Dept of Otorhinolaryngology – HNS. Neuromuscular changes in the aging larynx. Grand Rounds. January 11th, 2024.
6. University of Washington Department of Otolaryngology – HNS. Geriatric Laryngology. Seattle, WA. April 17th, 2024.

C. Meeting Panels

1. Urgent Care of the Professional Voice User: Panel. Arts and Sciences of the Performing Voice. Seattle, WA. May 14th, 2022.
2. AAO-HNSF Annual Meeting. Aging voice. Panelist. Miami, FL, September 28th, 2024.
3. Gerontechnology and Digital Biomarkers in Otolaryngology. Panelist. American Society of Geriatric Otolaryngology. October 10th, 2024.
4. Scientific Session: Vocal fold paralysis. Moderator. Fall Voice Conference. October 26th, 2024.
5. Bridging the gap: strengthening the research base in otolaryngology. Moderator. Triological Combined Sections Meeting. January 25th, 2025.

D. Course Instructor

1. USC Voice Center Stroboscopy Course. Technique: Rigid and flexible laryngoscopy. Los Angeles, CA. (2020)
2. University of Washington Dept Speech and Hearing. Vocal fold paralysis and paresis. SPHSC 545. Assessment and Treatments of Voice Disorders in Medical Settings. Hearing. Seattle, WA. (2021, 2022, 2023, 2024).
3. Northwest Airway Course. Seattle, WA, (2021, 2022).
4. University of Washington Dept of Otolaryngology – HNS. Resident Bootcamp. (2021)
5. AAO-HNSF Annual Meeting. Adding laryngeal reinnervation to your practice. (2023, 2024)

E. Invited Speaker

1. Challenges in measuring and detecting laryngeal neuropathy. Northwest Voice Foundation. Quarterly meeting. Seattle, WA. October 5th, 2020.
2. Clinical considerations in managing patients with hoarseness. University of Washington Primary Care In-service Presentation. Seattle, WA, October 13th, 2020.
3. What is the nature of idiopathic vocal fold paralysis? Laryngology Education Foundation’s Vocal Fold Paralysis Study Group. July 12th, 2021.
4. Look into the future: research in laryngology and voice. Arts and Sciences of the Performing Voice. May 13th, 2022.
5. Look into the future: research in laryngology and voice. National Association of Teachers of Singers (NATS) chat. December 11th, 2022.
6. Demystifying vocal injury: evaluation and treatment. National Association of Teachers of Singers (NATS) meeting. Seattle, WA. September 17th, 2023.
7. Introduction to Stroboscopy. Art and Science of the Performing Voice Conference. Seattle, WA. 2023, 2024, 2025.
8. Neuromuscular changes in the aging larynx. Bloedel Research Center Board of Trustees Meeting. Seattle, WA.

August 2nd, 2024.

PODCASTS, RADIO, AND INTERVIEWS

1. **Guest** – “Why do we hate the sound of our voices?” Let’s Go There with Shira Lazar and Ryan Mitchell Podcast. Channel Q. May 18, 2021.
2. **Guest** – “Why do we hate the sound of our voices?” The Daily of the University of Washington. Published: June 3rd, 2021.
3. **Expert opinion** – “Got the Hiccups? This L-shaped straw device may be the cure you need.” Healthline. Health News. Published: July 1st, 2021.
4. **Guest** – Conversation about vocal anatomy and production (Episode 22). This Choir Nerd Podcast with Markdavin Obenza. July 15th, 2021. <https://www.markdavinobenza.com/thischoirnerdpodcast>
5. **Guest** – “Why do we hate the sound of our voice?” A Little More Conversation. with Ben O’Hara-Byrne. Published March 17, 2022.

PROFESSIONAL AND NATIONAL ORGANIZATIONS

2012 – present	American Academy of Otolaryngology – Head and Neck Surgery
2021 – present	American Laryngological Association (ALA) Post-graduate member
2021 – 2024	Triological Society Post-graduate member
2024 – present	Triological Society Fellow
2024 – present	American Broncho-Esophagological Association (ABEA) Member

RESEARCH COURSEWORK

1. Designing Outcomes and Clinical Research – Master of Science in Clinical Investigation, Washington University. Fall 2015.
2. Systematic Reviews and Meta-analysis – Master of Science in Population Health Sciences, Washington University. Spring 2016.
3. Introduction to Clinical & Translational Research Study Design – Southern California Clinical and Translational Science Institute, University of Southern California. Fall 2019.