

Rebecca Chow Hoesli
Partner, Bastian Voice Institute
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Downers Grove, IL 60515

Otolaryngology Residency

Chief Resident
University of Michigan Health System, Ann Arbor, Michigan

Medical Education

University of Michigan Medical School, Ann Arbor, Michigan
M.D.

Undergraduate Education

Taylor University, Upland, IN
Biology/Pre-Med, B.A., Summa cum laude

Membership and Honorary/Professional Societies

Graduate Medical Education Committee
Alpha Chi Honor Society President and Member
American Medical Association
American Academy of Otolaryngology – Head Neck Surgery Member
Board Certified Otolaryngology Member
Chicago Otolaryngological Society Member

Publications

Peer Reviewed Journal Articles/Abstracts

Griffin GR, Hoesli RC, Thorne MC. Validity and efficacy of a pediatric airway foreign body training course in resident education. *Annals of Otolaryngology, Rhinology & Laryngology*. 2011 Oct; 120(10): 635-640. Cited in PubMed; PMID: 22097148.

Kupfer RA, Hoesli RC, Green GE, Thorne MC. The Relationship between Jugular Bulb-Vestibular Aqueduct Dehiscence and Hearing Loss in Pediatric Patients. *Otolaryngology - Head and Neck Surgery*. 2012 Mar; 146(3): 473-477.

Griffin, G., Hoesli, R., & Thorne, M. (2013). Pediatric Airway Foreign Body Training Experience. *MedEdPORTAL*, 9, 9562.

Ann Kupfer, R., Hoesli, R., Green, G. E., & Thorne, M. C. (2011). Jugular Bulb: Vestibular Aqueduct Dehiscence and Hearing Loss. *Otolaryngology—Head and Neck Surgery*, 145(2_suppl), P109-P109.

Griffin GR, Hoesli RC, Thorne MC. Pediatric Airway Foreign Body Training Experience. *MedEdPORTAL*; 2013. Available from www.aamc.org/mededportal.

Hoesli, Rebecca Chow, et al. "Eustachian Tube Duplication: A Unique Anomaly." *Otology & Neurotology* 35.6 (2014): 1099-1101.

Ray A, Hoesli RC, and Spector ME. "A Young Woman With a Supraclavicular Mass." *JAMA Otolaryngology–Head & Neck Surgery* (2016).

Hoesli RC, Stucken CL. Cutaneous squamous cell and basal cell carcinoma. In: *Facial Plastic and Reconstructive Surgery: Clinical Reference Guide*, (SC Desai, ed.), Plural Publishing, Inc, 2016.

Ludwig ML, Birkeland AC, Hoesli RC, Swiecki P, Spector ME, Brenner JC. Changing the paradigm: the potential for targeted therapy in laryngeal squamous cell carcinoma. *Cancer Biology & Medicine* 13.1 (2016): 87-100.

Hoesli RC, Shuman AG, and Bradford CR. "Decision Making for Diagnosis and Management: A Consensus Comes to Life" in *Multidisciplinary Approach to Head and Neck Cancer*, edited by Dr. Maie A. St. John.

Hoesli RC, Moyer JS. Immunotherapy for Head and Neck Squamous Cell Carcinoma. *Curr Oral Health Rep.* 2016 Jun;3(2):74-81.

Hoesli RC, Ludwig ML, Michmerhuizen NL, Rosko AJ, Spector ME, Brenner JC, Birkeland AC. Genomic Sequencing and Precision Medicine in Head and Neck Cancers. *Eur J Surg Oncol.* 2016 Dec 15. pii: S0748-7983(16)31036-8. doi: 10.1016/j.ejso.2016.12.002.

Hoesli R*, Mann J*, Michmerhuizen N, Devenport S, Ludwig M, Vandenberg T, Matovina C, Jawad N, Mierzwa M, Shuman A, Spector M, Brenner J. Surveilling the Potential for Precision Medicine-driven PD-1/PD-L1-targeted Therapy in HNSCC. *J Cancer* 2017; 8(3):332-344. doi:10.7150/jca.17547.

Birkeland AC, Foltin SK, Michmerhuizen NL, Hoesli RC, Rosko AJ, Byrd S, Yanik M, Nor JE, Bradford CR, Prince ME, Carey TE, McHugh JB, Spector ME, Brenner JC. "Correlation of Ctrc1/3-Maml2 fusion status, grade and survival in mucoepidermoid carcinoma." *Oral Oncology* 68 (2017): 5-8.

Hoesli RC, Orringer DA, McHugh JB, Spector ME. Coherent Raman Scattering Microscopy for Evaluation of Head and Neck Carcinoma. *Otolaryngol Head Neck Surg.* 2017 Apr 1:194599817700388.

Birkeland, A., Beesley, L., Bellile, E., Rosko, A., Hoesli, R., Chinn, S., Shuman, A., Prince, M., Wolf, G., Bradford, C., Brenner, J. and Spector, M. (2017). Predictors of survival after total laryngectomy for recurrent/persistent laryngeal squamous cell carcinoma. *Head & Neck*, 39(12), pp.2512-2518.

Hoesli R, Birkeland AC, Rosko AJ, Issa M, Chow KL, Michmerhuizen NL, Mann JE, Chinn SB, Shuman AG, Prince ME, Wolf GT, Bradford CR, McHugh JB, Brenner JC, Spector ME. Proportion of CD4 and CD8 Tumor Infiltrating Lymphocytes Predicts Survival in Persistent/Recurrent Laryngeal Squamous Cell Carcinoma. *Oral Oncol.* 2018 Feb;77:83-89. doi: 10.1016/j.oraloncology.2017.12.003.

Ludwig ML*, Kulkarni A*, Birkeland AC*, Michmerhuizen NL, Foltin SK, Mann JE, Hoesli RC, Devenport SN, Jewell BM, Shuman AG, Spector ME, Carey TE, Jiang H, Brenner JC. The Genomic Landscape of UM-SCC Oral Cavity Squamous Cell Carcinoma Cell Lines. *Oral Oncology.* Oct 2018.

- Smith J, Birkeland A, Rosko A et al. Mutational profiles of persistent/recurrent laryngeal squamous cell carcinoma. *Head Neck*. 2018. doi:10.1002/hed.25444
- Hoesli RC, Thatcher AL, Hogikyan ND, Kupfer RA. Evaluation of safety of intralesional cidofovir for adjuvant treatment of recurrent respiratory papillomatosis. *JAMA Otolaryngology–Head & Neck Surgery*. 2020;146(3):231. doi:10.1001/jamaoto.2019.4029
- Haring CT, Farlow JL, Leginza M, et al. Effect of Augmentative Technology on Communication and Quality of Life After Tracheostomy or Total Laryngectomy. *Otolaryngology–Head and Neck Surgery*. 2022;167(6):985-990. doi:10.1177/01945998211013778
- Hoesli, Rebecca C., et al. "Identification of 11 different HPV subtypes in adult patients with recurrent respiratory papillomatosis." *Otolaryngology–Head and Neck Surgery* 163.4 (2020): 785-790.
- Smith, Joshua D., et al. "Prognostic value of CD103+ tumor-infiltrating lymphocytes and programmed death ligand-1 (PD-L1) combined positive score in recurrent laryngeal squamous cell carcinoma." *Oral Oncology* 135 (2022): 106226.
- Hoesli, Rebecca, et al. "Intraoperative fluorescent angiography predicts pharyngocutaneous fistula after salvage laryngectomy." *Annals of Surgical Oncology* 26.5 (2019): 1320-1325.
- Hoesli, Rebecca C., Melissa L. Wingo, and Robert W. Bastian. "The long-term efficacy of botulinum toxin injection to treat retrograde cricopharyngeus dysfunction." *OTO open* 4.2 (2020): 2473974X20938342.
- Wajsberg, B., Hoesli, R. C., Wingo, M. L., Richardson, B. E., & Bastian, R. W. (2022). Retrograde Cricopharyngeus Dysfunction: An Orphan Disease?. *Official journal of the American College of Gastroenterology* | ACG, 117(9), 1539.
- Bastian, R. W., & Hoesli, R. C. (2020). Partial cricopharyngeal myotomy for treatment of retrograde cricopharyngeal dysfunction. *OTO open*, 4(2), 2473974X20917644.
- Wajsberg, B., Bastian, R. W., & Hoesli, R. C. (2022). Atypical Presentation of a Combined Internal/External Saccular Cyst: A Case Report. *OTO open*, 6(1), 2473974X221091538.
- Wajsberg, B., Hoesli, R. C., Wingo, M. L., & Bastian, R. W. (2021). Efficacy and Safety of Electromyography-Guided Injection of Botulinum Toxin to Treat Retrograde Cricopharyngeus Dysfunction. *OTO open*, 5(1), 2473974X21989587.
- Ludwig, M. L., Michmerhuizen, N. M., Hoesli, R. C., Mann, J. E., Devenport, S. N., Kulkarni, A. S., ... & Brenner, J. C. (2018). 15 Generation and Utilization of CRISPR/Cas9 Screening Libraries in Mammalian Cells. *Genome editing and engineering: From TALENs, ZFNs and CRISPRs to molecular surgery*, 223.
- Hoesli, R. C., Wingo, M. L., Wajsberg, B., & Bastian, R. W. (2021). Topical Capsaicin for the Treatment of Sensory Neuropathic Cough. *OTO open*, 5(4), 2473974X211065668.

Birkeland, A. C., Ludwig, M., Mann, J., Devenport, S., Hoesli, R. C., Matovina, C., ... & Brenner, J. C. (2017). NOTCH1 regulates head and neck cancer cell growth and invasion. *Cancer Research*, 77(13_Supplement), 814-814.

Hoesli, R., & Spector, M. E. (2019). ASO Author Reflections: Usage of Intraoperative Fluorescent Angiography to Predict Wound Healing Complications After Salvage Laryngectomy. *Annals of Surgical Oncology*, 26(3), 600-601.

Mann, J., Devenport, S., Kulkarni, A., Hoesli, R., Foltin, S., Michmerhuizen, N., ... & Brenner, C. (2019). Functional profiling of 17,000 open reading frames identifies regulators of PDL1 expression in HNSCC. *Cancer Research*, 79(13_Supplement), 4109-4109.

Mann, J., Ludwig, M., Kulkarni, A., Kafelghazal, J., Eisenberg, J., Hoesli, R., ... & Brenner, C. (2018). A genome scale screen to identify regulators of PD-L1 in HNSCC. *Cancer Research*, 78(13_Supplement), 3626-3626.

Mann, J. E., Ludwig, M. L., Hoesli, R. C., Kulkarni, A., Patel, S., Kafelghazal, J., ... & Brenner, J. C. (2017). Identifying intrinsic regulators of PD-L1 expression in cancer cells: A genome-scale CRISPR knock-out approach. *Cancer Research*, 77(13_Supplement), 1667-1667.

Mann, J. E., Ludwig, M., Kulkarni, A., Hoesli, R., Kafelghazal, J., Nesvizhskii, A., & Brenner, J. C. (2017). Identifying mechanisms of PD-L1 regulation in HNSCC. *Clinical Cancer Research*, 23(23_Supplement), 28-28.

Wajsberg B, Bastian RW, Hoesli RC. Atypical presentation of a combined internal/external saccular cyst: A case report. *OTO Open*. 2022;6(1). doi:10.1177/2473974x221091538

Hoesli RC, Michmerhuizen NL, Nair V, et al. Abstract 3712: Mechanistic link between phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha (PIK3CA) activity and PDL1 expression in head and neck squamous cell carcinoma (HNSCC). *Cancer Research*. 2017;77(13_Supplement):3712-3712. doi:10.1158/1538-7445.am2017-3712

Oral Presentations

Griffin GR, Hoesli R, Thorne MC. (2010, December). Validity and Efficacy of a pediatric airway foreign body simulation course in resident education. Oral Presentation presented at: 2010 Annual Meeting of the Society for Ear, Nose and Throat Advances in Children, Inc; Cincinnati, OH.

Kupfer RA, Hoesli RC, Green GE, Thorne MC. (2011, September). The Relationship Between Jugular Bulb—Vestibular Aqueduct Dehiscence and Hearing Loss in Pediatric Patients. Oral Presentation presented at: 2011 Annual Meeting of the American Academy of Otolaryngology—Head and Neck Surgery Foundation; San Francisco, CA.

Andrew C Birkeland, MD, Andrew J Rosko, MD, Emily L Bellile, MPH, Mohamad R Issa, Rebecca C Hoesli, MD, Andrew G Shuman, MD, Mark E Prince, MD, Gregory T Wolf, MD, Carol R Bradford, MD, Jonathan B McHugh, MD, J Chad Brenner, PhD, Matthew E Spector, MD. Clinical predictors of survival after salvage laryngectomy. Poster presentation at: 2016 International Conference on Head and Neck Cancer; Seattle, WA.

Andrew C Birkeland, MD, Susan K Foltin, Megan Yanik, Rebecca C Hoesli, MD, Andrew J Rosko, MD, Jonathan B McHugh, MD, Thomas E Carey, PhD, Carol R Bradford, MD, Matthew E Spector, MD, J Chad Brenner, PhD. Correlation of MAML2 Fusion Status, Grade and Outcome in Mucoepidermoid Carcinoma. Oral presentation presented at: 2016 Annual Meeting of the American Academy of Otolaryngology – Head and Neck Surgery Foundation; San Diego, CA.

Hoesli RC, Orringer D, McHugh J, Spector ME. Coherent Raman Scattering Microscopy in Head and Neck Cancer. Oral Presentation presented at: 2016 Michigan Otolaryngologic Society Annual Meeting; Crystal Mountain, MI.

Hoesli RC, Orringer D, McHugh J, Spector ME. Coherent Raman Scattering Microscopy: A Novel Imaging Technique for Head and Neck Cancer. Oral Presentation presented at: 2016 Annual Meeting of the American Academy of Otolaryngology – Head and Neck Surgery Foundation; San Diego, CA.

Hoesli RC, Michmerhuizen N, Nair V, Matovina C, Leonard E, Bradford CR, Prince ME, Spector ME, Brenner JC. Mechanistic link between PI3K activity and PDL1 expression in head and neck squamous cell carcinoma (HNSCC). Poster Presentation presented at: American Association for Cancer Research Annual Meeting 2017; Washington DC, April 1-5 2017.

Hoesli RC, Michmerhuizen N, Nair V, Matovina C, Leonard E, Bradford CR, Prince ME, Spector ME, Brenner JC. Mechanistic link between PI3K activity and PDL1 expression in head and neck squamous cell carcinoma (HNSCC). Poster Presentation presented at: AACR-AHNS Head and Neck Cancer Conference: Optimizing Survival and Quality of Life through Basic, Clinical, and Translational Research; San Diego, CA, April 23 - 25, 2017.

Hoesli RC, Birkeland AC, Rosko AJ, Issa M, Chow KL, Michmerhuizen NL, Mann JE, Shuman AG, Prince ME, Wolf GT, Bradford CR, McHugh JB, Brenner JC, Spector ME. CD8 positive tumor infiltrating lymphocytes predict survival in recurrent laryngeal squamous cell carcinoma. Poster Presentation presented at: AHNS 2017 Annual Meeting Held during the Combined Otolaryngology Spring Meetings (COSM); San Diego, CA, April 26-27 2017.

Birkeland AC, Ludwig ML, Mann JE, Devenport S, Hoesli RC, Matovina C, Spector ME, Bradford CR, Carey TE, Prince ME, Brenner JC. NOTCH1 Regulates Head and Neck Cancer Cell Growth and Invasion. Poster Presentation presented at: American Association for Cancer Research Annual Meeting 2017; Washington DC, April 1-5 2017.

Hoesli RC, Brennan JR, Spector ME, Malloy KM, Moyer JS, Prince MEP, Shuman AG, Chinn S, Stucken CL, Casper KA. Indocyanine Green Angiography Predicts Pharyngocutaneous Fistula Formation in Patients Undergoing Salvage Laryngectomy. Oral Presentation at Michigan Otolaryngologic Society Resident Research Committee, 2nd place award winner; July 28, 2018; Crystal Lake, MI.

Teaching

Hoesli RC. Congenital Nasal Anomalies. Grand Rounds Presentation: University of Michigan. 9 April 2015.

Hoesli RC. Immunology of Head and Neck Cancer. Grand Rounds Presentation: University of Michigan. 17 Dec 2015.

Hoesli RC. Inservice Review Jeopardy. Resident Teaching Talk: University of Michigan. 2 March 2016.

Hoesli RC. Sublingual Immunotherapy. Grand Rounds Presentation: University of Michigan. 21 April 2016.

Hoesli RC. Development of tumor-immune models for high throughput profiling. Head and Neck Cancer Retreat 13 May 2016.

Hoesli RC. Odontogenic Infections and Complications. Grand Rounds Presentation: University of Michigan. 25 August 2016.

Hoesli RC. Call Tips and Pearls. Resident Teaching Talk: University of Michigan. 23 February 2017.

Hoesli RC. Supplements and Surgery. Grand Rounds Presentation: University of Michigan. 2 February 2017.

Hoesli RC. Medical Decision Making in Otolaryngology. Grand Rounds Presentation: University of Michigan, 31 May 2018.

Hoesli RC. Posterior Glottic Stenosis: what it is, and how to prevent it. Grand Rounds Presentation: University of Michigan, 31 Jan 2019.