

Fred M Baik, MD



7/19/2020

CURRENT APPOINTMENT

9/2018 – present Assistant Professor
Department of Otolaryngology – Head and Neck Surgery
Stanford University School of Medicine, Stanford, CA

Staff Physician
Otolaryngology – Head and Neck Surgery
Surgical Service
VA Palo Alto Health Care System, Palo Alto, CA

POST-GRADUATE TRAINING

7/2017 – 6/2018 Fellow
Head and Neck Oncologic & Reconstructive Surgery
Mount Sinai Beth Israel Hospital, New York, NY

6/2011 – 6/2017 Intern and Resident
Department of Otolaryngology – Head and Neck Surgery
University of Washington Medical Center, Seattle, WA

EDUCATION

9/2006 – 6/2011 Doctor of Medicine
University of California, San Diego, CA

7/2009 – 6/2010 Master of Advanced Studies in Clinical Research
University of California, San Diego, CA

9/2001 – 5/2005 Bachelor of Arts with Honors Distinction in Biology
Magna Cum Laude
University of Pennsylvania, Philadelphia, PA

LICENSURE

2018 – present California
2017 – 2019 New York
2011 – 2017 Washington

CERTIFICATION

2018 American Board of Otolaryngology – Head and Neck Surgery, Diplomat
2018 American Head and Neck Society, Fellow

HONORS

2015 Travel Award, Triological Society, Western Sections Meeting
2014 2nd Place, University of Washington GME Research Day
2011 Jeffrey P. Harris Outstanding Student in Otolaryngology Award
2008 Hillyer Scholarship, University of California, San Diego
2005 Russell G. and Shirley Lakoff Memorial Scholarship
2005 Magna Cum Laude, University of Pennsylvania
2005 Honors Distinction in Biology, University of Pennsylvania
2002 – 2005 Dean’s Honors, University of Pennsylvania
2001 – 2005 University of Pennsylvania Trustees Scholarship

MEMBERSHIPS AND COMMITTEES

2011 – present American Academy of Otolaryngology – Head and Neck Surgery
2011 – present American Head and Neck Society
2014 – 2016 Resident Representative, Program Evaluation Committee, University of Washington

PEER-REVIEWED ARTICLES

1. Marcott S, Dewan K, Kwan M, **Baik F**, Lee YJ, Sirjani D. Where Dysphagia Begins: Polypharmacy and Xerostomia. *Fed Pract.* 2020 May;37(5):234-241.
2. Yue LE, Spaulding SL, **Baik FM**, Khorsandi A, Brandwein-Weber M, Urken ML. Multifocal Parotid Oncocytic Cystadenomatosis: A Rare Process that Can Mimic Malignancy. *Head Neck Pathol.* 2020 May 14.
3. Lee YJ, Fischbein NJ, Megwalu U, **Baik FM**, Divi V, Kaplan MJ, Sirjani DB. Radiographic surveillance of abdominal free fat graft in complex parotid pleomorphic adenomas: A case series. *Heliyon.* 2020 May; 6 (5).
4. Raghavan S, Clark M, Louie C, Jensen KC, Dietrich B, Beadle BM, El-Sawy T, **Baik F**, Kunder CA, Brown RA. Molecular profiling of a primary cutaneous signet-ring cell/histiocytoid carcinoma of the eyelid. *J Cutan Pathol.* 2020 May 1.

5. Griffin MJ, **Baik FM**, Brandwein-Weber M, Qazi M, Yue LE, Osorio M, Urken ML. Positive Lymph Node Counts in American Thyroid Association Low-Risk Papillary Thyroid Carcinoma Patients. *World J Surg.* 2020 Jun;44(6):1892-1897.
6. Fakurnejad S, Krishnan G, van Keulen S, Nishio N, Birkeland AC, **Baik FM**, Kaplan MJ, Colevas AD, van den Berg NS, Rosenthal EL, Martin BA. Intraoperative Molecular Imaging for ex vivo Assessment of Peripheral Margins in Oral Squamous Cell Carcinoma. *Front Oncol.* 2020 Jan 10;9:1476.
7. Sharif KF, Sims JR, Yue LE, **Baik FM**, Kiplagat KJ, Buchbinder D, Okay DJ, Chai RL, Urken ML. Reconstructive and prosthodontic outcomes after multiple palatomaxillary reconstructions. *Laryngoscope.* 2019 Dec 30.
8. Sato E, Mitani S, Nishio N, Kitani T, Sanada T, Ugumori T, Christopher Holsinger F, **Baik FM**, Hato N. Development of proficiency-based knot-tying and suturing curriculum for otolaryngology residents: A pilot study. *Auris Nasus Larynx.* 2019 Dec 21.
9. Hart ZP, Nishio N, Krishnan G, Lu G, Zhou Q, Fakurnejad S, Wormald PJ, van den Berg NS, Rosenthal EL, **Baik FM**. Endoscopic Fluorescence-Guided Surgery for Sinonasal Cancer Using an Antibody-Dye Conjugate. *Laryngoscope.* 2019 Dec 19.
10. Griffin MJ, Sims JR, Spaulding SL, **Baik FM**, Elahi E, Urken ML. Management of orbital complications in palatomaxillary reconstruction: A review of preemptive and corrective measures. *Head Neck.* 2020 Mar;42(3):556-568. doi: 10.1002/hed.26015. Epub 2019 Dec 13. Review.
11. Yue LE, Samankan S, Liu X, Sharif KF, Everest S, Singh T, Dhorajiya P, **Baik FM**, Khorsandi A, Stevens TM, Brandwein-Weber M, Urken ML. Ten patients with high-grade transformation of acinic cell carcinomas: Expression profiling of β -catenin and cyclin D1 is useful. *Pathol Res Pract.* 2020 Feb;216(2):152767.
12. Fakurnejad S, van Keulen S, Nishio N, Engelen M, van den Berg NS, Lu G, Birkeland A, **Baik F**, Colevas AD, Rosenthal EL, Martin BA. Fluorescence molecular imaging for identification of high-grade dysplasia in patients with head and neck cancer. *Oral Oncol.* 2019 Oct;97:50-55.
13. **Baik FM**, Yue LE, Sharif KF, Sims J, Urken ML. Combined mandibular and maxillary reconstruction: managing sinus secretions and preventing infection. *Laryngoscope.* 2019 Jan 22.
14. Sharif KF, **Baik FM**, Yue LE, Qazi M, Brandwein-Weber M, Khorsandi AS, Urken ML. Osteoradionecrosis of the hyoid bone complicated by pharyngocutaneous fistula: A case report and literature review. *Am J Otolaryngol.* 2018 Dec 7.

15. Sharif KF, **Baik FM**, Jategaonkar AA, Khorsandi AS, Urken ML. Septic arthritis of the sternoclavicular joint: A unique late complication after tracheostomy. *Am J Otolaryngol*. 2018 Sep - Oct;39(5):646-648.
16. **Baik FM**, Zhu V, Patel A, Urken ML. Airway management for symptomatic benign thyroid goiters with retropharyngeal involvement: Need for a surgical airway with report of 2 cases. *Otolaryngology Case Reports*. 2018 Jun;7(C):10-12.
17. Davis GE, **Baik FM**, Liddell RM, Ayars AG, Branch KR, Pottinger PS, Hillel AD, Helmick K, Collins D. Gorilla endoscopic sinus surgery: a life-saving collaboration between human and veterinarian medicine. *Int Forum Allergy Rhinol*. 2018 Mar 23;8(7):857-62.
18. Kiplagat KJ, Griffin M, **Baik FM**, Minkowitz AD, Urken ML. Thyroid Care Collaborative: an electronic health record facilitating multidisciplinary management of thyroid cancer. *International Journal of Endocrine Oncology*. *International Journal of Endocrine Oncology* 2018 Jan 30. 5:1, IJE03.
19. Yue LE, Qazi M, Kiplagat K, **Baik FM**, Khorsandi A, Brandwein-Weber M, Urken M. A rare primary leiomyosarcoma of the parotid gland: A case report and literature review. *Am J Otolaryngol*. 2018 Jan 27. 39(3):345-348.
20. Sharma A, Patel S, **Baik FM**, Mathison G, Pierce BH, Khariwala SS, Yueh B, Schwartz SM, Méndez E. Survival and Gastrostomy Prevalence in Patients With Oropharyngeal Cancer Treated With Transoral Robotic Surgery vs Chemoradiotherapy. *JAMA Otolaryngol Head Neck Surg*. 2016 Jul 1;142(7):691-7.
21. **Baik FM**, Hansen S, Knoblauch SE, Sahetya D, Mitchell RM, Xu C, Olson JM, Parrish-Novak J, Méndez E. Fluorescence Identification of Head and Neck Squamous Cell Carcinoma and High-Risk Oral Dysplasia With BLZ-100, a Chlorotoxin-Indocyanine Green Conjugate. *JAMA Otolaryngol Head Neck Surg*. 2016 Apr;142(4):330-8.
22. Hua N, **Baik F**, Pham T, Phinikaridou A, Giordano N, Friedman B, Whitney M, Nguyen QT, Tsien RY, Hamilton JA. Identification of High-Risk Plaques by MRI and Fluorescence Imaging in a Rabbit Model of Atherothrombosis. *PLoS One*. 2015 Oct 8;10(10).
23. Brown JC, **Baik FM**, Ou HC, Otjen JP, Parish HG, Chan DK. Upper aerodigestive magnetic foreign bodies in children. *Laryngoscope*. 2014 Jun;124(6):1481-5.
24. **Baik FM**, Andeen NK, Schmechel SC, Futran ND. A large juvenile xanthogranuloma within the tongue. *Otolaryngol Head Neck Surg*. 2014 Feb;150(2):332-3.
25. Olson ES, Whitney MA, Friedman B, Aguilera TA, Crisp JL, **Baik FM**, Jiang T, Baird SM, Tsimikas S, Tsien RY, Nguyen QT. In vivo fluorescence imaging of atherosclerotic plaques with activatable cell-penetrating peptides targeting thrombin activity. *Integr Biol*. 2012 Jun;4(6):595-605.

26. Shen J, **Baik F**, Mafee MF, Peterson M, Nguyen QT. Inverting papilloma of the temporal bone: case report and meta-analysis of risk factors. *Otol Neurotol*. 2011 Sep;32(7):1124.
27. **Baik FM**, Nguyen L, Doherty JK, Harris JP, Mafee MF, Nguyen QT. Comparative case series of exostoses and osteomas of the internal auditory canal. *Ann Otol Rhinol Laryngol*. 2011 Apr;120(4):255-60.
28. Luchavez J, Lintag M, Coll-Black M, **Baik F**, Bell D. An assessment of various blood collection and transfer methods used by malaria rapid diagnostic tests. *Malaria Journal* 2007 Nov 15;6(1):149.
29. Kilpatrick LE, Sun S, Mackie D, **Baik F**, Li H, Korchak HM. Regulation of TNF mediated antiapoptotic signaling in human neutrophils: role of delta-PKC and ERK1/2. *Journal of Leukocyte Biology*. 2006 Dec;80(6):1512-21.

ONLINE PUBLICATIONS

1. **Baik FM**, Bell D. Forecasting global procurement of malaria rapid diagnostic tests: Estimates and uncertainties. Online publication. <http://www2.wpro.who.int/internet/resources.ashx/RDT/docs/20_May_2007_RDT_Forecast_report.pdf> World Health Organization, Regional Office for the Western Pacific. 2007 Aug.

CHAPTERS

1. **Baik FM**, Parikh, S. Tracheal Anomalies, in: *Pediatric Otolaryngology – Head and Neck Surgery, A Clinical Reference Guide*. Plural Publishing, San Diego, CA, 411-418, 2014.

ORAL PRESENTATIONS

1. **Baik FM**, van den Berg NS, van Keulen S, Nishio N, Rosenthal EL. Fluorescence-guided surgery and margin analysis with panitumumab-IRDye800: initial experience in head and neck cancer. 17th International Photodynamic Association World Congress, Boston, MA. 2019 July 3.
2. **Baik FM**, Urken ML. Reconstructive considerations for combined maxillary-mandibular defects. ICORL International Meeting, Seoul, South Korea. 2019 April 27.
3. **Baik FM**, Chang SH, Moe KS. Bilayered Forehead-Pericranial Flap for Eyelid Defects. AAO-HNSF Annual Meeting, Chicago, IL. 2017 September 11.
4. **Baik FM**, Mendez EM. Fluorescence Detection of Squamous Cell Carcinoma and Oral Dysplasia with Indocyanine Green-labeled Chlorotoxin. AHNS Translational Research Meeting, Boston, MA. 2015 April 22.

5. **Baik FM**, Mendez EM. Fluorescence-guided Oncologic Surgery of the Head and Neck. Graduate Medical Education Research Day, University of Washington, Seattle, WA. 2014 May 3.

POSTER PRESENTATIONS

1. Griffin M, **Baik FM**, Brandwein M, Osorio M, Yue L, Urken ML. Identification of papillary thyroid cancer micrometastases in lymph nodes using a multilevel sectioning protocol and impact on risk of recurrence. American Thyroid Association Annual Meeting, Victoria, BC, Canada. 2017 October 18-22.
2. **Baik FM**, Inglis A, David GE. Pediatric Sublingual Hematoma from a Mandibular Fracture: Airway Management and Treatment Considerations. Western Sections Meeting, Triological Society, San Diego, CA. 2015 Jan 22-24.
3. **Baik FM**, Xu C, Mendez EM. Fluorescence Detection Of Oral Squamous Cell Carcinoma With Indocyanine Green-labeled Chlorotoxin In An Orthotopic Xenograft Model. International Federation of Head and Neck Oncological Societies, American Head and Neck Society World Congress, New York, NY. 2014 July 26-30.
4. Hua N, **Baik FM**, Pham T, Giordano N, Phinikaridou A, Tsien R, Hamilton J. Identification of vulnerable plaque by MRI and fluorescence imaging in a rabbit model. International Society for Magnetic Resonance in Medicine Annual Meeting, Quebec, Canada. 2011 May 7-13.
5. **Baik FM**, Chang A, Green D, Pakbaz S, Bergeron C. Post-tonsillectomy Lingual Artery Pseudoaneurysm. Combined Sections Meeting, Triological Society, Scottsdale, AZ. 2011 Jan 27-29.
6. **Baik FM**, Ho C, Lai JP, Douglas SD, Korchak HM, Kilpatrick LE. Substance P Plays Positive and Negative Regulatory Roles in Chemokine Signaling in THP-1 cells. Symposium on Undergraduate Research, Philadelphia, PA. 2005 April 13.
7. Ho C, **Baik FM**, Guo CJ, Lai JP, Douglas SD, Korchak HM, Kilpatrick LE. Substance P enhances RANTES mediated calcium mobilization and MAP kinase activation in human monocytes and the monocytic cell line THP-1: Role of crosstalk between NK-1R and CCR5 receptors. Children's Hospital of Philadelphia Fellow's Research Poster Day, Philadelphia, PA. 2005 Feb 21.

CURRENT RESEARCH

1. Principal Investigator
ID: IRB-43013

Title: A Phase II Study Evaluating Panitumumab-IRDye800 Versus Sentinel Node Biopsy and (Selective) Neck Dissection for Metastatic Lymph Node Identification in Patients with Head and Neck Cancer

2. Co-investigator

ID: IRB-11402

Title: Identification and Characterization of Novel Proteins and Genes in Head and Neck and/or Skin Cancer (SQL 76537)

Protocol Director: John Sunwoo

PRIOR RESEARCH EXPERIENCE

1. NIH Resident Research Fellow

Department of Otolaryngology – Head and Neck Surgery, University of Washington

Dates: July 2013 – June 2014

Grant ID: 5T32DC000018-30

Mentors: Eduardo Mendez, MD; Julie Novak, PhD

Project: Chlorotoxin-based Fluorescence Identification of Oral Squamous Cell Carcinoma

2. NIH Research Fellow

Department of Pharmacology, University of California, San Diego

Dates: July 2009 – June 2010

Grant ID: 5T32RR023254-05

Mentors: Quyen T. Nguyen, MD, PhD; Roger Y. Tsein, PhD

Project: Detection of Vulnerable Atherosclerotic Plaques using Activatable Cell-Penetrating Peptides

3. NIH Research Fellow

Division of Otolaryngology – Head and Neck Surgery, University of California, San Diego

Dates: July 2009 – June 2010

Grant ID: 5T32RR023254-05

Mentors: Jeffrey P. Harris, MD, PhD; John Alskne, MD

Project: Hearing Preservation Following Gamma Knife Radiosurgery for Acoustic Neuroma

4. Research Student

HIV Neurobehavioral Research Center, University of California, San Diego

Dates: June 2007 – August 2007

Mentor: Ronald Ellis, MD, PhD

Project: HIV Dementia and the Impact of Highly-active Anti-retroviral Therapy on Neurologic Function

5. Research Fellow

Malaria, Vectorborne and Parasitic Disease, World Health Organization, Manila, Philippines

Dates: March 2006 – May 2006
Mentor: David Bell, MD
Project: Quality Control Assessment and Global Procurement Forecasting of Malaria Rapid Diagnostic Tests

6. Research Assistant

Joseph Stokes Jr. Research Institute, Children's Hospital of Philadelphia

Dates: April 2004 – August 2005

Mentors: Laurie Kilpatrick, PhD and Stephen D. Douglas, MD

Project: Intracellular Interactions between the Human Monocyte Receptor CCR5 and Neurokinin-1 Receptor

7. Research Assistant

Department of Hematology-Oncology, Children's Hospital of Los Angeles

Dates: May 2002 – August 2002

Mentor: J. Van Tornout, MD

Project: RFC-1 and TNF-alpha mutation analysis of pediatric brain tumors

PROFESSIONAL DEVELOPMENT

1. Advancing Communication Excellence at Stanford (ACES) leadership workshop, Stanford University, October 30, 2018

TEACHING/SERVICE

1. Director of resident education, Division of Head and Neck Surgery, Stanford Otolaryngology, September 2018 – present
2. ERAS (Enhanced Recovery After Surgery) Pathway development for Head and Neck Microvascular Surgery, September /2018 – present
3. OTO-SIM resident simulation proctor, January 10, 2019
4. Bay Area Head and Neck Anatomy Course, Lecturer, January 12-13, 2019
5. Updates on the Surgical Management of Head and Neck Melanoma. Stanford Otolaryngology Grand Rounds. 2019 Feb 7.
6. Stanford ACS Thyroid, Parathyroid, Neck Ultrasound Course, Proctor, May 11, 2019
7. Bay Area Head and Neck Anatomy Course, Director, January 11-12, 2020

STUDENT MENTORSHIP

1. SURG 205 scrub mentor, Stanford School of Medicine
 - a. Michelle Yu Zhang, Oct 2018
2. Student Observer
 - a. Denny Bao, University of California, San Diego, Dec 2018
3. Surg 300 Medical Student Clerkship Mentor

- a. Surya Nagaraja, April 2019
- b. Jamie Brett, May 2019
- c. Shayan Fakurnejad, June 2019
4. Zeel Thakkar, Harker High School
5. Aviva Mattingly, Stanford medical student

MEDICAL OUTREACH

1. Medical volunteer
Otology outreach, Global ENT Outreach, Richard Wagner, MD
Trinidad, Bolivia, May 2010
2. Homeless Street Outreach Manager
UCSD Student Run Free Clinic
San Diego, CA, February 2006 – February 2007
3. Medical outreach
Christian Medical Dental Association
Puerto Nuevo, Baja California, March 2007
4. Medical observership
Annoor Sanatorium for Pulmonary Diseases, Joshua Yoon, MD
al Mafraq, Jordan, October 2005