

BRITTANY BARBER MD MSC FRCSC

CURRICULUM VITAE

January 2019

1. PERSONAL DATA

Place of Birth: Wainwright, Alberta, Canada
Date of Birth: May 16, 1985

2. EDUCATION

2003-2007 BSc, University of Alberta, Edmonton, Alberta, Canada
2007-2011 MD, University of Alberta, Edmonton, Alberta, Canada
2013-2017 MSc, University of Oxford, Oxford, United Kingdom

3. POSTGRADUATE TRAINING

2011-2016 Residency, Otolaryngology-Head & Neck Surgery, University of Alberta, Canada
2017 Fellowship, Head & Neck Surgical Oncology, University of Liverpool, UK
2017-2018 Fellowship, Head & Neck Microvascular Reconstructive Surgery, Icahn School of Medicine at Mount Sinai, NY

4. FACULTY POSITIONS HELD

2018 Assistant Professor of Surgery, University of Washington Department of Otolaryngology-Head and Neck Surgery, Seattle, WA

5. HOSPITAL POSITIONS HELD

2018- Attending Physician, University of Washington Medical Center, Seattle, WA
2018- Attending Physician, Harborview Medical Center, Seattle, WA

6. HONORS

2005 & 2007 Alberta Heritage Foundation for Medical Research Award, University of Alberta, Canada
2009 Harold & Opal Award in Medicine, University of Alberta, Canada
2010 Dr. John E Bradley Scholarship, University of Alberta, Canada
2010 Irene & Jack Brown Scholarship, University of Alberta, Canada
2011 AE Bowie Scholarship in Medicine, University of Alberta, Canada
2015 Nilay Patel Memorial Award, University of Oxford, United Kingdom
2015 1st Prize President's Research Award, Alberta Psychiatry Association, Canada
2015 2nd Prize National Poliquin Residents' Competition, CSO, Canada
2016 1st Prize Resident Research Award, University of Alberta, Canada
2016 Best Clinical Service Award, University of Alberta, Canada
2016 Best Resident Researcher Award, University of Alberta, Canada
2016 RE Fraser Excellence in Teaching Award, University of Alberta, Canada
2016 1st Prize National Poliquin Residents' Competition, CSO, Canada
2017 CSOHNS Fellowship Award, CSO, Canada

7. EXAMINATIONS & BOARD CERTIFICATION

2011 Board Certification, Licentiate of the Medical College of Canada (LMCC); Part 1, 2
2016 Board Certification, United States Medical Licensing Examination; Steps 1, 2, 3
2017 Board Certification in Otolaryngology-Head & Neck Surgery, Royal College of Physicians & Surgeons of Canada

8. LICENSURE

2011-2017 Alberta Provincial Medical License
2017- New York State Medical License

2018- Washington State Medical License

9. PROFESSIONAL ORGANIZATIONS

2015-2018 Member, American Head & Neck Society (AHNS)
 2015-2018 Member, Canadian Society of Otolaryngology-Head & Neck Surgery
 2016-2018 American Academy of Otolaryngology-Head & Neck Surgery (AAO-HNSF)
 2017-2018 Fellow, Royal College of Physicians & Surgeons of Canada
 2018- American Medical Association

10. TEACHING RESPONSIBILITIES

2013-2016 Medical Student Anatomy Teaching, University of Alberta, Canada
 2011-2016 Resident Academic Leader, University of Alberta, Canada
 2017-2018 Educational Tumor Board Resident Teaching, Icahn School of Medicine at Mount Sinai, NY
 2018- Resident Academic Didactic Teaching, University of Washington Department of Otolaryngology-Head & Neck Surgery

A. Invited talks

2017 “Living with, Through, and Beyond Head and Neck Cancer” Otolaryngology Grand Rounds, Calgary, Alberta, February 16, 2016.
 2017 “Survivorship in the Head & Neck Cancer Patient” Otolaryngology Grand Rounds, Seattle, Washington, November 30, 2017.
 2018 “Genomic analysis of young oral tongue cancer patients with no risk factors: lessons from the Cancer Genome Atlas” Otolaryngology Grand Rounds, Icahn School of Medicine at Mount Sinai, New York, NY, June 7, 2018
 2018 “Fellowship in a New York Minute: Stories from South of the 49th” Canadian Society of Otolaryngology (CSO), Quebec City, QC, June 10, 2018

11. EDITORIAL RESPONSIBILITIES

2015-2018 Reviewer, Journal of Otolaryngology-Head & Neck Surgery
 2017-2018 Reviewer, Oral Oncology

12. RESEARCH FUNDING

A. Current

2013-2016 Sponsor: University Hospital Foundation Medical Research Grant
 Title: “Brief Electrical Stimulation of The SPINal accessory nerve (BEST SPIN) for prevention of shoulder dysfunction after oncologic neck dissection: a double-blinded, randomized controlled trial”
 Total Costs: \$34,000
 Role: Co-Investigator

2015-2018 Sponsor: Medtronic Grant Foundation
 Industry Sponsored Grant
 Title: “Brief electrical stimulation for regeneration of the recurrent laryngeal nerve after transection injury: an animal model”
 Total Costs: \$16,381
 Role: Co-PI

2016-2018 Alberta Health Services Surgery Strategic Clinical Network (SCN)

Title: Northern Alberta Psychosocial Telecare (NAPT) for Surgical Head & Neck Cancer Patients”
 Total: \$10,000
 Role: Co-PI

B. Pending

2018-2020 Sponsor: American Head & Neck Society (AHNS)
 Title: “Genomic analysis of young oral tongue cancer patients”
 Total Costs: \$10,000
 Role: PI

C. Past

2005-2006 Sponsor: Alberta Heritage Foundation for Medical Research
 Title: *Expression and purification of SLD3 and CDC45; proteins that tether DNA polymerase to origins of replication*
 Total Costs: \$5,000
 Role: Research Student

2006-2007 Sponsor: Alberta Heritage Foundation for Medical Research
 Title: *Genetic selection of human HDAC1 inhibitors*
 Total Costs: \$5,000
 Role: Research Student

13. BIBLIOGRAPHY

A. Publications in Refereed Journals

1. Immune status and immunotherapy in advanced cutaneous squamous cell carcinoma: what are our next steps? (Invited Commentary) – **Brittany Barber MD MSc FRCSC**. JAMA Otolaryngol Feb 2019; accepted for publication.
2. Challenges in multi-unit reconstruction: a framework perspective – **Brittany Barber MD MSc FRCSC**, Brett Miles MD DDS FACS. Oral Cancer 2018; doi:10.1007/s41548-018-0016-x
3. Using PROMs to guide patients and practitioners through the head and neck cancer journey – Simon Rogers MD, FRCS(Eng), FRCS(maxfac), **Brittany Barber MD MSc FRCSC**. Patient related outcome measures 2017; doi:10.2147/prom.s129012
4. Intraoperative Brief Electrical Stimulation of The SPINal accessory nerve (BEST SPIN) for prevention of shoulder dysfunction after oncologic neck dissection: a double-blinded, randomized controlled trial – **Brittany Barber MD MSc FRCSC**, Hadi Seikaly MD MAL FRCSC, K. Ming Chan MD FRCPC, Rhys Beaudry BSc PT, Shannon Rychlik BScRN, Jaret Olson MD FRCSC, Matthew Curran MD, Peter Dziegielewski MD FRCSC, Vincent Biron MD PhD FRCSC, Jeffrey Harris MD MHA FRCSC, Margaret McNeely PT PhD, Daniel O’Connell MD MSc FRCSC. J Otolaryngol Head Neck Surg 2017. Accepted for publication Nov 24.
5. Transoral robotic surgery with radial forearm free flap reconstruction: case control analysis – Vincent Biron MD PhD FRCSC, Daniel O’Connell MD MSc FRCSC, **Brittany Barber MD MSc FRCSC**, Jessica Clark MD MSc, Caroline Andrews MSc, Caroline Jeffrey MD FRCSC, David Cote MD CCFP MPH FRCSC, Jeffrey Harris MD MHA FRCSC, Hadi Seikaly MD MAL FRCSC. J Otolaryngol Head Neck Surg, 2017, Mar 14. doi: 10.1186/s40463-017-0196-0.
6. Free thyroid transfer: short-term results of a novel procedure to prevent postradiation hypothyroidism – Jeffrey Harris MD MHA FRCSC, **Brittany Barber MD**, Hani Al-Marzouki MD MSc FRCSC, Jacques Romney MD MSc FRCPC, Rufus Scrimger MD FRCPC, Daniel

- O'Connell MD MSc FRCSC, Hadi Seikaly MD MAL FRCSC. Head Neck, Nov 15. doi: 10.1002/hed.24590
7. Efficacy of a High-Observation Protocol (HOP) in major head and neck cancer surgery: a prospective study - **Brittany Barber MD**, Joshua Urquart BSc, Cameron Shillington BSc, Shannon Rychlik BScN, Joseph Dort MD MSc FRCSC, Michael Meier MD FRCSC, Timothy Yeh MD FRCPC, David Zygun MD MSc FRCPC, Daniel O'Connell MD MSc FRCSC, Hadi Seikaly MD MAL FRCSC, Jeffrey Harris MD MHA FRCSC. Accepted to Head Neck, Aug 25. Awaiting publication date.
 8. Free thyroid transfer (FTT): a novel technique to prevent radiation-induced hypothyroidism - Jeffrey Harris MD MHA FRCSC, Hani Al-Marzouki MD MSc FRCSC, **Brittany Barber MD**, Jacques Romney MD MSc FRCPC, Rufus Scrimger MD FRCPC, Daniel O'Connell MD MSc FRCSC, Hadi Seikaly MD MAL FRCSC. (Published in Int J Radiat Oncol Biol Phys 2016; 96(1):42-5.)
 9. Free flap elevation times using the Harmonic Scalpel® - Joshua Deserres MD, **Brittany Barber MD**, Jeffrey Harris MD MHA FRCSC, Hadi Seikaly MD MAL FRCSC, Daniel O'Connell MD MSc FRCSC. (Published in Plast Reconstr Surg Glob Open 2016; 4(5):e718.)
 10. Bone-impacted vs. traditional fibular free flap: complications and dental implant success rate – **Brittany Barber MD**, Peter Dziegielewski MD FRCSC, Rachele Chuka MSc, Daniel O'Connell MD MSc FRCSC, Jeffrey Harris MD MHA FRCSC, Hadi Seikaly MD MAL FRCSC (Published in Head Neck 2015; Dec 17. DOI: 10.1002/hed.24315.
 11. Comparison of T99m-Sestamibi, and SPECT/CT in localization of parathyroid adenomas for minimally-invasive parathyroid surgery: a cost-effectiveness analysis – **Brittany Barber MD**, Conrad Moher BSc, David Cote MD FRCSC, Jeffrey Harris MD FRCSC (Published in Head Neck 2015; Dec 4. DOI 10.1002/hed/24379. [Epub ahead of print])
 12. Depression and survival in head and neck cancer patients: a systematic review - **Brittany Barber MD**, Jace Dergousoff MD, Jeffrey Harris MD MHA FRCSC, Daniel O'Connell MD MSc FRCSC, Hadi Seikaly MD MAL FRCSC. (Published in JAMA Otolaryngology-Head & Neck Surgery. Jan 16 Mar 1;142(3):284-8. doi: 10.1001/jamaoto.2015.3171. [Epub ahead of print])
 13. Depression as a predictive factor of postoperative functional performance status and treatment adherence: a prospective study - **Brittany Barber MD**, Margaret Nesbitt SLP AP, Jace Dergousoff MD, Nicholas Mitchell MD FRCPC, Jeffrey Harris MD MHA FRCSC, Daniel O'Connell MD MSc FRCSC, Hadi Seikaly MD MAL FRCSC. (Published in Journal of Otolaryngology-Head & Neck Surgery. 2015 Sep 18;44:38)
 14. Intraoperative brief intraoperative electrical stimulation (BES) for prevention of shoulder dysfunction after oncologic neck dissection: study protocol for a randomized control trial - **Brittany Barber MD**, Margaret McNeely PT PhD, Rhys Beaudry PT, K, Ming Chan MD FRCPC, Vince Biron MD PhD FRCSC, Hadi Seikaly MD MAL FRCSC, Daniel O'Connell MD MSc FRCSC. (Published in Trials 2015;16(1):240-51.)
 15. Algorithm-based patient care protocol to optimize patient care and inpatient stay in head and neck free flap patients - Dan O'Connell MD MSc FRCSC, **Brittany Barber MD**, Max Klein MD, J Soparolo MD, Hani Almarzouki MD MSc FRCSC, Jeffrey Harris MD MHA FRCSC, Hadi Seikaly MD MAL FRCSC (Published in the Journal of Otolaryngology-Head & Neck Surgery 2015 Nov 2;44:45-51.)
 16. Factors associated with severe deep neck space infections: targeting multiple fronts - **Brittany Barber MD**, Peter Dziegielewski MD FRCSC, Vince Biron MD PhD FRCSC, Andrew Ma MD,

- Hadi Seikaly MD MAL FRCSC. (Published in the Journal of Otolaryngology – Head & Neck Surgery 2013; Feb 26;42:18-24.)
17. Molecular predictors of locoregional and distant metastases in oropharyngeal squamous cell carcinoma – **Brittany Barber MD**, Vince Biron MD PhD, Lakshmi Puttagunta MD FRCPC, Hadi Seikaly MD FRCSC (Published in the Journal of Otolaryngology-Head & Neck Surgery 2013; Oct 42 (1):53-61)
 18. Neck metastases in oropharyngeal cancer: Necessity and extent of bilateral treatment - Peter Dziegielewski MD FRCSC, Daniel O’Connell MD MSc FRCSC, Jacek Szudek MD PhD FRCSC, **Brittany Barber MD**, Arjun Joshi MD FRCSC, Jeffrey Harris MD MHA FRCSC, Hadi Seikaly MD FRCSC. (Published in Head Neck. 2013 Oct;35(10):1461-7.)
 19. Bone-impacted fibular free flap: a novel technique to increase bone density for dental implantation in osseous reconstruction - Peter Dziegielewski MD FRCSC, Alexander Mlynarek MD FRCSC, Jeffrey Harris MD MHA FRCSC, Adam Hrdlicka MD, **Brittany Barber MD**, Khaled Al-Qahatani MD MSc FRCSC, John Wolfhaardt BDS MDent PhD, Don Raboud PhD, Hadi Seikaly MD FRCSC. (Published in Head Neck 2014 Nov;36(11):1648-53.)
 20. Surgical versus ultrasound-guided drainage of deep neck space abscesses: a randomized controlled trial - Vince Biron MD PhD, George Kurien MD, Peter Dziegielewski MD FRCSC, **Brittany Barber MD**, Hadi Seikaly MD FRCSC (Published in the Journal of Otolaryngology-Head & Neck Surgery 2013 Feb;42:18-27.)
 21. Clearing up clear cell tumors of the head and neck: differentiating odontogenic and hyalinizing varieties – **Brittany Barber BMSc**, David Cote MD FRCSC, Hadi Seikaly MD FRCSC (Poster presentation at Canadian Society of Otolaryngology (CSO) Annual Meeting in 2009. Published in the Journal of Otolaryngology Head & Neck Surgery. 2010 Oct;39(5):E56-60.)
 22. Electric shock ear torture: a rare cause of tympanic membrane perforation and mixed hearing loss – **Brittany Barber BMSc**, David Cote MD FRCSC, Richard Liu MD FRCSC (Poster presentation at Canadian Society of Otolaryngology (CSO) Annual Meeting in 2009. Published in Journal of Otolaryngology - Head Neck Surg 2011 Jun;40(3):E22-5.)
 23. Floseal hemostatic matrix in persistent epistaxis: prospective clinical trial – David W. J. Cote MD FRCSC, **Brittany Barber BMSc**, Chris Diamond MD FRCSC, Erin Wright MD MEd FRCSC (Oral presentation at the Canadian Society of Otolaryngology (CSO) Annual Meeting in 2009. Published in the Journal of Otolaryngology – Head and Neck Surgery. 2010 Jun;39(3):304-8.)
 24. Lingual thyroid in adults: management algorithm based on swallowing outcomes – Peter Dziegielewski MD, Jason Chau MD FRCSC, Hadi Seikaly MD FRCSC, Mike Alegretto MD FRCSC, **Brittany Barber BMSc**, Jeffrey Harris MD FRCSC (Poster presentation at Canadian Society of Otolaryngology (CSO) Annual Meeting in 2009. Published in the Journal of Otolaryngology-Head Neck Surg. 2011 Feb;40(1):19-26.)
 25. Double free-flap reconstruction: indications, challenges, and prospective functional outcomes – Jennifer Guillemaud MD, Hadi Seikaly MD FRCSC, David WJ Cote MD FRCSC, **Brittany Barber BMSc**, Jana Rieger PhD, Johan Wolfhaardt DDS, Peggy Nesbitt MSc, Jeffrey Harris MD FRCSC. (Published in Arch Otolaryngol Head Neck Surg 2009 Apr;135(4):406-10.)

B. Book Chapters

1. Barber, Brittany. (2017). Free Tissue Transfer in Head and Neck Cancer Reconstruction, in Mourad, Moustafa (1st Ed.), Facial Plastic and Reconstructive Surgery: High-Yield Board Review (pp. 123-128). New York, New York.

2. Barber, Brittany. (2018). Reconstruction of the Maxilla, in Fakhry, Carol (1st Ed.). Oral Cancer: Evaluation, Therapy, and Rehabilitation. (pp. xx). Baltimore, MY.

14. OTHER

A. National and International Presentations

1. *Intraoperative brief electrical stimulation for prevention of shoulder dysfunction after oncologic neck dissection: a double-blinded, randomized controlled trial* – American Head & Neck Society (AHNS) Annual Meeting – Seattle, Washington July 16-20, 2016
2. *Development and validation of a clinical risk score for predicting Ventilation After Head & Neck Cancer Surgery (VANCS)* – American Head & Neck Society (AHNS) Annual Meeting – Seattle, Washington July 16-20, 2016
3. *Transoral robotic surgery (TORS) with radial forearm free flap reconstruction: case-control analysis* – Canadian Society of Otolaryngology (CSO) Annual Meeting, PEI, Canada June 10-13, 2016
4. *Efficacy of a High-Observation clinical care pathway in major head and neck cancer surgery: a quality improvement initiative* – American Head & Neck Society (AHNS) Annual Meeting – Seattle, Washington July 16-20, 2016 (*Best of Clinical Papers Session*)
5. *Intraoperative brief electrical stimulation for prevention of shoulder dysfunction after oncologic neck dissection: a double-blinded, randomized controlled trial* – Canadian Society of Otolaryngology (CSO) Annual Meeting – Poliquin Residents' Competition, Charlottetown, PEI, Canada June 10-13, 2016
6. *Management of sinonasal hemangiopericytomas: algorithm and systematic review of the literature* – Combined Otolaryngology Spring Meetings (COSM) – Chicago, Illinois May 19-21, 2016
7. *Electrical stimulation for regeneration of the spinal accessory nerve in head and neck cancer patients* – International Society for Maxillofacial Rehabilitation (ISMR) Conference – Belgrade, Serbia May 4-7, 2016
8. *Implant placement in maxillofacial reconstruction using surgical design and simulation* – International Society of Maxillofacial Rehabilitation (ISMR) Conference – Belgrade, Serbia May 4-7, 2016
9. *Efficacy of a High-Observation clinical care pathway in major head and neck cancer surgery: a quality improvement initiative* – International Forum on Quality & Safety in Healthcare (IHI) Conference, Gothenberg, Sweden April 12-16, 2016
10. *Depression as a predictive factor of postoperative functional performance status and treatment adherence: a prospective study* - Canadian Society of Otolaryngology (CSO) Poliquin Residents' Competition June 6-9, 2015, Winnipeg, Manitoba, Canada.
11. *Development and validation of a clinical risk score for predicting Ventilation After Head & Neck Cancer Surgery (VANCS)* - Tom Williams' Surgical Research Day, May 8th, 2015, Edmonton, Canada.
12. *Development and validation of a clinical risk score for predicting Ventilation After Head & Neck Cancer Surgery (VANCS)* - Resident Research Day (RRD) May 15th, 2015, Edmonton, Alberta, Canada.

13. *Comparison of T99m-Sestamibi, and SPECT/CT in localization of parathyroid adenomas for minimally-invasive parathyroid surgery: a cost-effectiveness analysis* – American Head & Neck Society (AHNS) Meeting April 23-24, 2015, Boston Massachusetts, USA.
14. *Depression and survival in head and neck cancer patients: a systematic review* – American Head & Neck Society (AHNS) Meeting April 23-24, 2015, Boston Massachusetts, USA.
15. *Long-term results of novel Free Thyroid Transfer (FTT) procedure for prevention of post-radiation hypothyroidism* – American Head & Neck Society (AHNS) Meeting April 23-24, 2015, Boston Massachusetts, USA.
16. *Nurse-led psychosocial intervention for care of the head and neck cancer patient* – University of Oxford Surgical Science & Practice Annual Nilay Patel Memorial Competition, April 14-16 2015, Oxford, UK.
17. *Free thyroid transfer (FTT): a novel technique to prevent radiation-induced hypothyroidism* - International Federation of Head & Neck Oncologic Societies (IFHNOS) Meeting – July 4-7th, 2014, New York, New York, USA.
18. *Depression as a predictive factor of postoperative functional performance status and treatment adherence: a prospective study* - Tom Williams' Surgical Research Day, May 12th, 2014, Edmonton, Alberta, Canada.
19. *Free flap elevation times using the Harmonic Scalpel®* - Canadian Society of Otolaryngology (CSO) Annual Meeting 2013, Banff, Alberta, Canada.
20. *Molecular predictors of locoregional and distant metastases in oropharyngeal squamous cell carcinoma* – Canadian Society of Otolaryngology annual meeting, Poliquin Residents' Competition 2013, Banff, Alberta, Canada.
21. *Factors associated with severe deep neck space infections: targeting multiple fronts* – Canadian Society of Otolaryngology annual meeting, May 13, 2011, Victoria, Canada.
22. *Bone-impacted vs. traditional fibular free flap: complications and dental implant success rate* – Canadian Society of Otolaryngology (CSO) Meeting May 12, 2011, Victoria, Canada.)
23. *Routine thyroid imaging in minimally-invasive parathyroid surgery for primary hyperparathyroidism* – Combined Otolaryngology Spring Meeting (COSM) in 2010, Las Vegas, Nevada, USA.
24. *Utility of T99m-Sestamibi and SPECT/CT in localization of parathyroid adenomas for minimally-invasive parathyroid surgery* – Canadian Society of Otolaryngology (CSO) Meeting in 2010, Niagara Falls, Canada.
25. *Posterior tibial free flap in reconstruction of the head and neck* – Canadian Society of Otolaryngology (CSO) Annual Meeting in 2010, Niagara Falls, Canada.
26. Otolaryngology Webcase Project – Innovations in Medical Education (IME) Conference, March 14th, 2010, Los Angeles, California, USA.
27. *Floreal hemostatic matrix in persistent epistaxis: prospective clinical trial* – Canadian Society of Otolaryngology (CSO) Annual Meeting in 2009, Halifax, Nova Scotia, Canada.
28. *Clearing up clear cell tumors of the head and neck: differentiating odontogenic and hyalinizing varieties* – Canadian Society of Otolaryngology (CSO) Annual Meeting in 2009, Halifax, Nova Scotia, Canada.
29. *Rothia mucilaginosa: a common microbe in an uncommon clinical presentation* – Canadian Society of Otolaryngology (CSO) Annual Meeting in 2009, Halifax, Nova Scotia, Canada.

30. *Electric shock ear torture: a rare cause of tympanic membrane perforation and mixed hearing loss* – Canadian Society of Otolaryngology (CSO) Annual Meeting in 2009, Halifax, Nova Scotia, Canada.
31. *Junior students teaching senior students: a pilot project* – Canadian Conference on Medical Education (CCME) June 23rd, 2009, Edmonton, Alberta.
32. *Genetic selection of human HDAC1 inhibitors* – Summer Students' Research Day, October 26, 2007 at the University of Alberta, Edmonton, Alberta.
33. *Expression and purification of SLD3 and CDC45; proteins that tether DNA polymerase to origins of replication* – Summer Students' Research Day, October 15, 2005 at University of Alberta, Edmonton, Alberta.