OTOLARYNGOLOGY - HEAD & NECK SURGERY ANNUAL REPORT

2015-2016



Otolaryngology - Head & Neck Surgery UNIVERSITY OF TORONTO

Leading Innovation. Achieving Impact

Edited By: Dr. lan J. Witterick Acknowledgements To: Sonia Valente Audrea Martin

Designed and Printed By:



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Department of Otolaryngology– Head & Neck Surgery

Professor and Chair

Vice-Chair Education & Director of Postgraduate Education Director of Undergraduate Medical Education Assistant Director, Pre-Clerkship Assistant Director, Post Clerkship Director of Continuing Professional Development & Liaison Community Academic Faculty Vice-Chair Research

Otolaryngologists-in-Chief

Michael Garron Hospital North York General Hospital Sinai Health System St. Joseph's Health Centre St. Michael's Hospital Sunnybrook Health Sciences Centre The Hospital for Sick Children Trillium Health Partners University Health Network

Division Chiefs

Head and Neck Oncology Facial Plastic and Reconstructive Surgery

Committee Chair Holders

Executive Undergraduate Postgraduate Continuing Professional Development Research Audiology Department Appointments Department Promotions Budget Advisory Community Academic Faculty Advancement Quality and Safety Dr. Ian J. Witterick Dr. Paolo Campisi Dr. Allan Vescan Dr. Brad Hubbard Dr. John Lee

Dr. Yvonne Chan Dr. Robert V. Harrison

Dr. Al Chiodo Dr. Everton Gooden Dr. Ian J. Witterick Dr. Rick Fox Dr. Jennifer Anderson Dr. Joseph M. Chen Dr. Blake Papsin Dr. Jeffrey Mendelsohn Dr. Ralph Gilbert

Dr. Ralph Gilbert Dr. Peter Adamson

Dr. Ian J. Witterick Dr. Allan Vescan Dr. Paolo Campisi Dr. Yvonne Chan Dr. Robert V. Harrison Ms. Vicky Papaioannou Dr. Jonathan C. Irish Dr. Robert V. Harrison Dr. Ian J. Witterick Dr. Yvonne Chan Dr. Patrick J. Gullane Dr. Danny Enepekides

Vision, Mission, Values

Vision

International leadership in improving health through innovation and excellence in otolaryngology-head & neck surgical practice, research and education.

Mission

We prepare head and neck surgical leaders, contribute to our communities and improve the health of individuals and populations locally and globally through discovery, application and communication of knowledge.

Values

Excellence • Collaboration • Integrity • Respect Compassion • Accountability • Caring • Leadership • Innovation



Organizational Structure

DEAN Faculty of Medicine

CHAIR Otolaryngology-HNS



Chair's Report



This 2015–16 Annual Report for the Department of Otolaryngology–Head & Neck Surgery at the University of Toronto details the exciting activity that has taken place in education, research, advancement and alumni relationships. I want to thank all of our faculty,

residents and fellows as well as the leadership of our department for creating the wonderful activity that we are able to report on. I am indebted to so many who make the job of Chair rewarding and fulfilling.

We should be very proud of our university, the Faculty of Medicine and our department. The Times Higher Education magazine named the University of Toronto as the top university in Canada and 19th globally in its 2015-2016 World University Rankings¹. The QS World University Rankings for Life Sciences and Medicine in 2015-16 ranked the University of Toronto as the top university in Canada and 12th in the world². The Performance Ranking of Scientific Papers for World Universities released by National Taiwan University in 2016 for Clinical Medicine ranked the University of Toronto 3rd in the world behind Harvard and Johns Hopkins University³. In a recent bibliometric ranking of North American departments of otolaryngology-head & neck surgery for 2015 carried out by the Faculty of Medicine, University of Toronto, our department was ranked number 5 with the next closest Canadian university ranked number 24⁴.

Education Undergraduate

Our department continues to have a significant footprint in the Arts and Science of Medicine (ASCM) year 1 and 2 courses as well as the Mechanisms, Manifestations and Management of Disease (MMMD) course in second year. The first and second years of the medical curriculum have been completely revamped into a new "Foundations" curriculum so that in the next academic year there will be a transition. The first year students will start with the new Foundations curriculum and the second year students will continue with the "old" curriculum. Our faculty will be helping with the transition and teaching in both the old and new curricula.

The Longitudinal Integrated Clerkship pilot project at St. Michael's Hospital was successful and this is being expanded to include other academies in the next academic year. The transition of more than half of the third-year clerks to community sites continues to be very successful with excellent evaluation scores from both community and core teaching hospital sites.

The Longitudinal Elective Experience in otolaryngology-head & neck surgery is a relatively new initiative offered by our department to encourage student exposure to our specialty at community sites. This elective is spread over four afternoons throughout the second year of preclerkship and can encompass either clinical or operative exposure. Our department is also an active participant in the Portfolio course in third-year and the fourth year Transition to Residency/Fusion course.

Drs. Forte and Campisi are to be commended for the time and effort they have put into the OtoSimTM sessions which has enhanced the medical student's otoscopic evaluation skills as demonstrated in multiple publications. The Audiology Committee under the directorship of Ms.Vicky Papaioannou also ran several successful Kids2Hear programs where medical students screen children at GTA schools under the supervision of audiologists, otolaryngology residents and faculty. Our department helped with some financial assistance this year with purchasing new otoscopes and audiometers.

The Undergraduate Medical Education (UME) site coordinators and the UME Committee for our department are to be commended for the excellent work they have done this year managing this very large and complex portfolio. We are indebted to the many faculty who take time away from their clinical practices to help teach in the many UME courses.

The UME leaderships include Dr. Allan Vescan, Director of UME and Assistant Directors Dr. Brad Hubbard (Pre-Clerkship) and Dr. John Lee (Post-Clerkship). I am so appreciative of the tremendous time and energy that these three individuals put in to making UME a priority in our department.

Postgraduate Medical Education

The Residency Program Committee has been very active this year under the leadership of Dr. Paolo Campisi, Director of Postgraduate Education and Vice-Chair Education. A very successful CaRMS match was held on January 29, 2016 with 27 candidates invited for interviews. The five candidates selected to begin residency in our program on July 1, 2016 were Neil Arnstead – University of Saskatchewan, Christopher Hong – University of Ottawa, Florence Mok – University of Toronto, Christopher Noel – University of Toronto and Jennifer Siu – Queen's University. We welcome all of them as well as the new fellows who started on July 1, 2016.

Congratulations to all seven graduating residents who were successful on their Royal College examinations – these are Drs. Antoine (Tony) Eskander, Sarah Hugh, Kayvan Nateghifard, Heather Osborn, Modupe (Dupe) Oyewumi, Edward Park and Nikolaus (Nik) Wolter. A well-attended graduation ceremony for residents and fellows took place on June 8, 2016 at Hart House. Members of our department, family and friends were in attendance to celebrate the achievements of our graduates. We wish them every success in their future careers!

The internal review scheduled for June 2016 was postponed to the Fall of 2017 due to the changes to the postgraduate program with the implementation of the pilot Competency by Design curriculum for PGY1s in July 2016. Dr. Campisi with help from the PGME office (especially Dr. Susan Glover-Takahashi) has put significant time and effort into this curriculum for the incoming PGY1 residents and is working hard with other members of the Royal College Otolaryngology-Head & Neck Surgery Specialty Committee to develop the curriculum for subsequent years. Several faculty development sessions were organized by Dr. Campisi to help bring the department "up to speed" on this important change in residency education.

We had a very active formal teaching program including core curriculum and hands-on teaching sessions (soft tissue, microlaryngeal simulation, temporal bone drilling, sinus dissection, rhinoplasty and plating). Dr. Campisi has adopted a "flipped classroom" model to encourage background reading prior to teaching sessions where practical examples and cases are discussed. The Audiogram of the Month program organized by the Audiology Committee continues to be very popular and standardized patient sessions continue to be offered to the residents in our program.

Following feedback from residents and faculty, the number of journal clubs was reduced and the venue changed which was well received this year. Thank you to Dr. Adrian James for spearheading these changes.

Several of our residents were fortunate to travel on humanitarian missions with Dr. Peter Adamson's Face the Future[™] missions (Dr. Nikolaus Wolter – Russia June 2015, Dr. Gian-Marco Busato – Kigali, Rwanda February 2016 and our Chief Resident, Dr. Michael Au – Ulyanovsk, Russia June 2016). They have universally seen these missions as very positive education and humanitarian experiences.

Continuing Professional Development

Dr. Yvonne Chan continues to do a stellar job organizing the Continuing Professional Development portfolio. There were 11 local courses organized by our faculty including the highly successfully Otolaryngology Update. Our faculty leaders who devote so much time and effort to organize and run these courses are to be congratulated.

In addition, our faculty helped in the organization of two international conferences in Toronto. The first was the Current Concepts in Head and Neck Surgery course on November 7-8, 2015, a joint effort between our department, MD Anderson Cancer Center and Memorial Sloan Kettering Cancer Center, with local organizers Drs. Gilbert and Gullane. The second was the 14th International Conference on Cochlear Implants and other Implantable Technologies held May 11-14, 2016. Local organizers, Drs. Joe Chen and Julian Nedzelski are to be congratulated on their significant roles in making this a remarkably successful congress with over 1,700 registrants and the "who's who" of cochlear implants covering everything from basic, clinical and rehabilitation science.

Several new courses were offered including Caring for Skin Cancer and the Aging Face (led by Dr. Michael Brandt and other members of the Division of FPRS), Sialendoscopy Course (led by Dr. Jack Kolenda), Current Management of Sleep Disorders – An Update (led by Dr. Raymond Ng) and a Thyroid Ultrasound Course (led by Drs. Yvonne Chan and Jeremy Freeman). Dr. Evan Propst's International Pediatric Endoscopic and Open Airway Courses continue to be well attended and considered to be excellent hands-on experiences.

The 18th Annual Wharton/Elia Day was held on May 27, 2016. The keynote speakers were Dr. Tanguy Seiwert, a medical oncologist from the University of Chicago (Wharton Lecturer), Dr. Gang Zheng, a senior scientist at the University of Toronto (Sullivan Lecturer), and Dr. Andy Minn, a Radiation Oncologist from the University of Pennsylvania (Elia Lecturer). The focus was "Immunotherapy for Head & Neck Cancer".

Research

The Annual Research Evening took place on November 25, 2015 at the SickKids Research and Learning Tower. The breadth of clinical and basic science research taking place in the department was evident. The large volume of peer-reviewed publications and grants is detailed in this Annual Report. There were approximately 125 publications in 73 journals.

The departmental Research Committee led by Dr. Robert Harrison was active this year and took a

greater role in vetting resident research projects. Recent discussions included the current funding environment, promotion of academic activity in the department and progress on the departmental strategic plan deliverables.

Harry Barberian Scholarship submissions were adjudicated by a committee made up of Drs. Freeman, Harrison and Campisi and the successful residents and faculty as well as their projects are reported in this Annual Report. More than \$235,000 has been awarded to residents and faculty over last three years and we expect more than \$100,000 will be awarded from the May 5, 2016 fundraiser. Our sincere thanks to the Barberian family, the Sinai Health System Foundation and Dr. Jeremy Freeman for making this such a successful and important event for our department.

Changes in the Department

Dr.Vito Forte stepped down from active clinical practice in the last academic year to pursue new challenges in the Institute of Biomaterials and Biomedical Engineering at SickKids and the University of Toronto. A reception was held in his honour on September 3, 2015 at the residence of Ian and Jenny Witterick. Many faculty, colleagues and friends came out to celebrate with Vito and wish him well on his new journey.

Dr. Julian Nedzelski, former Chair of our department and juggernaut of otology/neurotology retired from practice on June 30, 2016. A similar reception is planned in the fall of 2016 to honour his amazing career and accomplishments. He has made such an impact on the lives and careers of so many in our department and specialty and helped to put our department on the world stage. We wish him every success and happiness in retirement.

Dr. Glen Taylor, cross-appointed to the Department of Otolaryngology-Head & Neck Surgery retired on June 30, 2016. His primary appointment was with the Department of Laboratory Medicine and Pathobiology.

Following an international search, Dr. Trung Le MD, PhD, FRCSC will join the department at

Sunnybrook as a clinician-investigator. Dr. Le completed residency at the University of Manitoba followed by fellowship at the University of British Columbia. His research focuses on magnetic targeting of stem cell therapy to the inner ear. In addition, Dr. Andrew Dimitrijevic, PhD will join the research program at Sunnybrook early in September 2016 as the Director of the Cochlear Implant Program. Dr. Dimitrijevic was recruited from the Cincinnati Children's Hospital Medical Center, Communication Sciences Research Center and will expand the electrophysiology program in newly renovated space at Sunnybrook. We welcome Drs. Le and Dimitrijevic and their families to Toronto.

The department also welcomed Drs. Michael Chang, Artur Gevorgyan and Sandra Vojvodich as Adjunct Lecturers, Dr. Praby Singh as a Part-time Assistant Professor and Ms. Lora Carinci as a Status Only Lecturer.

Dr. Jonathan Irish is stepping down as the Head of Surgical Oncology at Princess Margaret Cancer Centre as of July 1, 2016 after serving for 15 years. He was also elected as the Conference Chair for the American Head and Neck Society's 9th International Conference on Head and Neck Cancer in Seattle, Washington July 16–20, 2016.

Dr. Jeffrey Mendelsohn joined the Executive Committee as the representative from Trillium Health Partners (THP) for this academic year. In the next academic year, Dr. Lorne Segall will take over from Dr. Mendelsohn as the Chief of Otolaryngology–Head & Neck Surgery for THP and will be invited to join the Executive Committee.

Following a generous donation, Toronto East General Hospital was renamed the Michael Garron Hospital as part of their new Toronto East Health Network.

Passings

We lost a dear friend and colleague in the passing of Dr. Wilfred Goodman on September 7, 2015. Dr. Goodman graduated from the department's residency program in 1949 and served as Program Director from 1967 to 1988. His contributions were recognized by Dr. Peter Adamson at the American Academy of Facial Plastic and Reconstructive Surgery meeting in Dallas in October 2015 and in a subsequent publication (Adamson PA. In Memoriam: Wilfred S. Goodman MD, Pioneer Surgeon, Consummate Educator, Renaissance Man (1922-2015) JAMA Facial Plast Surg 2016 Jan 1;18(1):77). An award in Dr. Goodman's honour was previously established jointly by our department and the Canadian Academy of Facial Plastic and Reconstructive Surgery.

Dr. Lorrence Hnatuk (residency class of 1995) passed away on March 17, 2016. Lorrence fought a courageous and relentless four year battle against a very formidable cancer. He was fondly remembered by his co-residents, friends and colleagues in our Spring 2016 newsletter.

We lost a dear friend, Mrs. Ursula Stephenson on May 31, 2016. Ursula will be remembered by so many in her role as the Postgraduate Administrator for 23 years until her retirement in September 2010. She is survived by her loving husband of 35 years, Mr. Jim Stephenson, her two children (Mark and Jamie Lee) and one grandchild (Katalina).

Promotions

Congratulations to Dr. Karen Gordon for her promotion to Full Professor and to Dr. David Goldstein on his promotion to Associate Professor effective July 1, 2016. In addition, congratulations to the following faculty promoted to Assistant Professor during this academic year; Drs. Sumeet Anand, Michael Brandt, Everton Gooden, Jack Kolenda, Robert Mounsey, Allan Vescan and Jeffrey Werger.

Awards and Honours

Notable awards and honours this year included:

- Dr. Julian Nedzelski was awarded the Order of Ontario in January 2016 for his role in being one of the pioneers of the multi-channel cochlear implant in Canada.
- Dr. Patrick Gullane was awarded the Lifetime Achievement Award by the Canadian Society of Otolaryngology-Head & Neck Surgery (CSO-HNS) at their annual meeting in Charlottetown, PEI in June 2016.

CHAIR'S REPORT

- Dr. Al Chiodo was also honoured for his pioneering work on integrating education into community otolaryngology rotations in the "Celebrating Our Own" series at the CSO-HNS annual meeting in Charlottetown, PEI.
- Dr. Blake Papsin was bestowed the Sylvan Stool Teaching Award administered through SENTAC (Society for Ear Nose and Throat Advances in Children) and is given for outstanding teaching and mentorship in December 2015.
- Drs. Yvonne Chan, John Lee and Allan Vescan were presented with the Colin R. Woolf Award for Excellence in Course Coordination for Rhinology Update (held the previous year in May 2015).
- Dr. Brian Tatham was selected as the Distinguished Alumnus for 2015-16 which was presented at the Percy Ireland Annual Dinner on May 12, 2016.
- Dr. Adrian James was elected into the Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum (CORLAS), an initiative created in 1926 to provide international leaders an information exchange forum. In addition, the Secretary General position was recently taken over by Dr. Antti Makitie, an alumnus of the department's fellowship program.
- Dr. Jonathan Irish has been named the Eugene Myers International Lecturer on Head and Neck Cancer and will give his presentation at the September 2016 Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery (AA0-HNS) in San Diego.

Alumni Relations

Significant effort continues to be made to engage our alumni through electronic and personal communication and multiple alumni events. For 2015-16 these included:

- AA0-HNS Alumni Reception on September 27, 2015 at the NYLO Hotel in Dallas, Texas
- Annual Alumni & Friends Dinner on February 6, 2016 at the Faculty Club in Toronto. The residency class of 1990 was honoured.

- Annual Percy Ireland Dinner on May 12, 2016 at the Park Hyatt Hotel in Toronto
- CSO-HNS Alumni Reception on June 11, 2016 at The Guild in Charlottetown, PEI

Advancement

Our department continues to be blessed through philanthropy to help our clinical, education and research programs. I am indebted to our Senior Advancement Officer, Ms. Heather Yearwood and our Director of Advancement, Dr. Patrick Gullane for helping our advancement initiatives. Some of the notable achievements in the 2015-16 academic year included:

- The Koerner Foundation provided additional funding to the Sunnybrook Department to be used over 4 years to accelerate research in auditory physiology and otology.
- The UHN department received a generous donation (\$5 million) which will be used to enhance research at UHN and help in the redesign of their clinical and office space.
- Dr. Blake Papsin was named as the first Chair holder of the Jordan and Lisa Gnat Family and Bastable-Potts Chair in Otolaryngology-HNS at SickKids. This endowed chair was funded to encourage and support ongoing research in nonotologic foci within the department at SickKids.
- Dr. Karen Gordon was named as the second Chair holder of the endowed Cochlear Americas Chair in Auditory Development at SickKids.
- Dr. Jennifer Anderson was named as first Chair holder of the \$1.65 million Term Chair (Nicole Muzzo Chair in Voice Research) at St. Michael's Hospital.
- A \$240,000 gift from the Smile China Foundation was used to create two awards in honour of the late Dr. Joseph K.H. Wong. The two awards support an annual lecture (Joseph K.H. Wong/Smile China Project Lecture in Global Health & Outreach) and humanitarian travel awards. The first lecturer was Dr. Jonathan Sykes from Sacramento, CA who gave a beautiful lecture on anatomy and aesthetics in facial

surgery. Two of our residents, Drs. Gian-Marco Busato and Dr. Michael Au were the first recipients of travel awards to accompany Dr. Adamson on Face the FutureTM missions to Rwanda and Russia as noted previously.

- The Ralph and Rose Chiodo family donated \$250,000 towards the new Otolaryngology-Head & Neck Surgery Clinic at the Michael Garron Hospital as part of their redevelopment.
- Mr. Paul and Mrs. Rose Allison made a very generous donation of \$100,000 to establish the Rose and Paul Allison Hearing Loss Research Fund at the University of Toronto to support Dr. Alain Dabdoub's research aimed at uncovering the developmental process unfolding in the inner ear.
- The Annual Harry Barberian Dinner on May 5, 2016 (Harry's birthday) is anticipated to have raised in excess of \$100,000 as noted above.
- Mr. Mark Daniels donated \$50,000 to purchase new ear drills for the Surgical Skills Centre at Sinai Health System.
- We have created an advancement brochure highlighting the department's excellence and areas of need.

Summary

We have a great Department and I hope you enjoy reading some of the highlights of the 2015–16 academic year. In the next academic year we will be launching a new website and implementing further aspects of the Competency by Design residency training program. We will continue to innovate and lead our specialty both nationally and internationally.

I have now completed four years of my five-year term and an external review of the department is planned to take place on February 27-28, 2017. I look forward to highlighting the accomplishments of our residents, fellows and faculty over the last 4+ years.

I am indebted to all of the members of our department for helping in the achievement of our goals and being so supportive of our department and our University. A special thanks to our administrative support who do a fabulous job keeping us all on track (Ms. Audrea Martin – Business Officer, Ms. Sonia Valente – Executive Assistant and Mr. Michael Figueiredo – UME & PGME Program Administrator). Thank you!

¹ https://www.timeshighereducation.com/world-universityrankings/2016/worldranking#!/page/0/length/25/sort_by/rank_label/sort_or der/asc/cols/rank_only

² http://www.topuniversities.com/universityrankings/faculty-rankings/life-sciences-andmedicine/2015#sorting=rank+region=+country=222+fa culty=+stars=false+search=

³http://nturanking.lis.ntu.edu.tw/DataPage/TOP300.as px?query=ClinicalMedicine&y=2016

⁴ Data on file

Alumni and Friends Events

September 27, 2015 – SODA Bar Lounge inside the NYLO Hotel, Dallas in conjunction with the Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery (AAO-HNS)



February 6, 2016 Annual Alumni & Friends Dinner at the Faculty Club in Toronto – In conjunction with Otolaryngology Update













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February 6, 2016 Annual Alumni & Friends Dinner at the Faculty Club in Toronto – In conjunction with Otolaryngology Update



June 11, 2016 – The Guild, Charlottetown PEI in conjunction with the Annual Meeting of the Canadian Society of Otolaryngology-Head & Neck Surgery (CSO-HNS)





















Faculty

Faculty Members

Newest appointments denoted with an asterisk (*)

Professor and Chair

I.J. Witterick, MD, MSc, FRCSC

Professores Emeriti:

S.M. Abel, PhD P.W. Alberti, MB, PhD, FRCSC, FRCS B.D. Birt, MB, FRCSC, FRCS T.D.R. Briant, MD, FRCSC W.S. Crysdale, MD, FRCSC J. Friedberg, MD, FRCSC W.M. Hawke, MD, FRCSC M.L. Hyde, PhD J.S. McGrail, MB, MSc, FRCSC J.M. Nedzelski, OOnt, MD, FRCSC

Professors:

P.A. Adamson, MD, FRCSC, FACS D.H. Brown, MB, FRCSC P. Campisi, MD, MSc, FRCSC, FAAP J.M. Chen, MD, FRCSC D. Chepeha, MD, MScPH, FACS, FRCSC D.A.F. Ellis, MD, FRCSC V. Forte, MD, FRCSC J.L. Freeman, MD, FRCSC, FACS R.W. Gilbert, MD, FRCSC P.J. Gullane, CM, OOnt, MB, FRCSC, FACS, Hon-FRACS, Hon-FRCS, Hon-FRCSI J. Haight, BM, DPhil, FRCSC R.V. Harrison, PhD, DSc J.C. Irish, MD, MSc, FRCSC, FACS A.M. Noyek, OC, MD, FRCSC, FACS B.C. Papsin, MD, MSc, FRCSC R. Ralhan, PhD, FNAMS J.A. Rutka, MD, FRCSC

Associate Professors:

J. Anderson, MD, MSc, FRCSC J.S. Chapnik, MD, FRCSC A. Chiodo, MD, FRCSC K. Conrad, MD, FRCSC, FRCS A. Dabdoub, PhD M.J. Davidson, MD, MSc, FRCSC D. Enepekides, MD, FRCSC R.S. Fenton, MB, FRCSC, FRCS A.M. Gantous, MD, FRCSC K. Gordon, PhD, CCC-A, Reg. CASLPO K. Higgins, MD, MSc, FRCSC A. James, MB, FRCSC, FRCS V. Lin, MD, FRCSC A.J. Smitheringale, MB, MEd, FRCSC

Assistant Professors:

Y. Chan, MD, MSc, FRCSC, HBSc K.Y. Chow, MB, FRCSC S. Cushing, MD, MSc, FRCSC J. de Almeida, MD, MSc, FRCSC R. Fox, MD, FRCSC D. Goldfarb, MD, FRCSC D. Goldstein, MD, MSc, FRCSC J. Halik, MD, FRCSC T. Holler, MD, MSc, FRCSC R.L. Josephson, MD, PhD, FRCSC J. Lee, MD, MSc, FRCSC E. A. Monteiro, MD MSc, FRCSC R. H.W. Ng, BSc, MD, PhD, FRCSC V. Papaioannou, MCISc D. Pothier, MBChB, MSc, FRCS (ORL-HNS) E.J. Propst, MD, MSc, FRCSC M. Shah, MD, MPhil, FRCSC D.B. Shipp, MA 0. Smith, MD, FRCSC M. Zirkle, MD, MEd, FRCSC

Lecturers:

J. Adamonis, MCISc A. Alexander, MD, BSc, FRCSC S. Anand, MD, MSc, BArtsSc (Hon), FRCSC J. Asaria, MD, BSc, FRCSC J. Atlas, MD, BSc (Hon), FRCSC S. Banglawala, BSc, MPH, MD, FRCSC G. Beard, MD, FRCSC G. Belchetz, BSc, MD, FRCSC M.G. Brandt, BSc, MD, FRCSC D. Brown, MD, FRCSC L. Carinci*, MClinSci, BSc (Hon) R. Chaban, MD, FRCSC M. Chang*, BSc, MD, FRCSC

FACULTY MEMBERS

N. Chauhan, MD, FRCSC J. Chung, MD, FRCSC A.J. da Silva, MB, FRCSC D. Dalgorf, HBSc, MD, FRCSC T. Davids, MD, FRCSC S. Druker, MCISc C. Falls, BA Psychology, BHSc, MCISc D. Finkelstein, MD, FRCSC A. Gevorgyan*, MSc, MD, FRCSC E. Gooden, MD, FRCSC G. Gouldina, MCISc A. Grewal, MD, BHSc, FRCSC H.K. Guirgis, MB, CHB, FRCSC D. Hacker, MD, FRCSC B. Hassouneh, BSc, MD, FRCSC R. Hekkenberg, MD, FRCSC B. Hubbard, MD, BASc, FRCSC T. Kandasamy, MD, BSc, FRCSC A. Katyal, MD, FRCSC W. Kaul, MB, FRCSC J. Kolenda, MD, FRCSC M. Korman, BA, MD, FRCSC, DAB Oto A. Lee, MD, MSc, CCFP(EM), FRCSC R. Leung, BSc, MD, FRCSC B.T.M. Lui, BSc, MSc, MD, FRCSC L. MacDonald, MCISc B. Marcarian, MD, FRCSC J. Mendelsohn, MB, ChB, FRCSC R. Mounsey, MD, FRCSC, FACS D. Naiberg, MD, FRCSC, FACS K. Nazarali, MD, FRCSC, FACS A. Oh, MD, BSc, FRCSC X. Punthakee, BSc, MD, FRCSC R. Rival, MD, FRCSC R. Seaberg, HBSc, MD, PhD, FRCSC L. Segall, MD, MSc, FRCSC J. Shahin, MD, FRCSC K. Smilsky, MCISc P. Solomon, MD, FRCSC E. Thurier, MCISc V. Toran*, MD, FRCSC C. Torgerson, MD, PhD, FRCSC A. Toth, MD, FRCSC Al. Vescan, MD, MSc, FRCSC S. Vojvodich*, MD, FRCSC J. Werger, MD, FRCSC K. Williams, MD, MSc J. Witte, MA A. Wong, BSc, MD, FRCSC E. Wong, MCISc

Cross-Appointed Faculty Professors:

S. Blaser, MD, FRCPC, Medical Imaging
G. Bradley, DDS, MSc, Faculty of Dentistry
B.J. Cummings, MB, FRCPC, Radiation Oncology
F. Gentili, MD, FRCSC, FACS, Surgery
S. Kamel-Reid, MA, PhD, Laboratory Medicine & Pathobiology
H. Kunov, PhD, Biomedical Engineering
F-F. Liu, MD, FRCPC, Radiation Oncology
B. O'Sullivan, MB, FRCPC, Radiation Oncology
J. Ringash, MD, BSc, MSc, FRCPC, Radiation Oncology
L.E. Rotstein, MD, FRCSC, Surgery
P.G. Walfish, MD, FRCPC, Medicine
A.M-F. Wong, MD, PhD, FRCSC, FAAO,
Ophthalmology & Vision Sciences
N. Zamel, MD, FRCPC, Medicine

Associate Professors:

E. Kassel, DDS, MD, FRCPC, Medical Imaging J. Lazor, RPh, BScPhm, MScPhm, EdD, FRSHP, Dept of Family & Community Medicine R. Martino, MSc, MA, PhD, Speech Language Pathology B. Perez-Ordoñez, MD, FRCPC, Laboratory Medicine & Pathobiology S. Symons, BASc, MPH, MD, FRCPC, Medical Imaging G.P. Taylor, MD, FRCPC, Laboratory Medicine & Pathobiology J. Waldron, MD, FRCPC, Radiation Oncology E. Yu, MD, FRCPC, Medical Imaging G. Zadeh, MD, PhD, FRCSC, Surgery

Assistant Professors:

J. Allegro, MSc, Speech Language Pathology E.S. Bartlett, MPH, MD, Medical Imaging J. Huber, MScA, SLPc, PhD, MD, FRCPC, Pediatrics S. Laughlin, MD, FRCPC, Medical Imaging B.Y. Ngan, MD, FRCPC, Laboratory Medicine & Pathobiology

Lecturers:

D. Parker, MSc, Speech Language Pathology P. Ranalli, MD, FRCPC, Medicine

Administrative Staff:

Michael Figueiredo, Postgraduate/Undergraduate Administrator Audrea Martin, Business Officer Sonia Valente, Chair's Assistant/Department Executive Assistant

Instuctor

N.A.T. Sandor, MSc

Honours and Awards

CHAN, Y 2016	Colin R. Woolf Award for Excellence in Course Coordination, Course Director, Dept of Otolaryngology - Head & Neck Surgery, Faculty of Medicine, University of Toronto. (Continuing Education, Specialty: Rhinology and Advanced Sinus Surgery).
2015	Department of Surgery Award in Recognition of Outstanding Leadership in Medical Education, Course Director, Dept of Surgery, Faculty of Medicine, University of Toronto, Mississauga Academy of Medicine
CHEN, J 2016	Adjunct Professor (2016-2019), University of Vienna.
GEVORGYAN, A 2015	Cochrane Scholarship, American Academy of Otolaryngology – Head and Neck Surgery Foundation.
GORDON, K 2016	Cochlear Americas Chair in Auditory Development.
GULLANE, P 2016	Canadian Society of Otolaryngology-Head & Neck Surgery's Lifetime Achievement Award
LEE, J 2016	Colin R. Woolf Award for Excellence in Course Coordination, Course Director, Dept of Otolaryngology - Head & Neck Surgery, Faculty of Medicine, University of Toronto. (Continuing Education, Specialty: Rhinology and Advanced Sinus Surgery).
2014 - 2015	Publication Award, St. Michael's Hospital, Breakfast of Our Champions. (Distinction) Awarded for the publication of the manuscript: "Nasal nitric oxide as a marker of sinus mucosal health in patients with nasal polyposis".
2016	Resident Advocacy Award, Dept of Otolaryngology - Head & Neck Surgery, Faculty of Medicine. (Postgraduate MD, Core Program).
MARTINO, R 2016	Head and Neck Cancer Alliance Award (Best Oral Presentation), Dysphagia Research Society.
2016	CNS Francis McNaughton Memorial Prize (Best Submitted Paper), Congress of the Canadian Neurological Sciences Federation.
2013 - 2018	Canada Research Chair (Tier II) in Swallowing Disorders, Canada Research Chairs Program.
NEDZELSKI, J 2016	Order of Ontario
PAPSIN, B 2015	The Sylvan Stool Award for Teaching Excellence, Society for Ear, Nose and Throat Advances in Children.
PROPST, E 2016	1st Place Peds Videoto: ASPO video session, American Society of Pediatric Otolaryngology. (Research Award).
RALHAN, R 2016	The Global Oral Cancer Forum, New York, USA, 2016, Best Poster Award (third).
SEABERG, R 2015	Humber River Hospital Excellence in Teaching Award – for teaching undergraduate medical students.
VESCAN, A 2016	Colin R. Woolf Award for Excellence in Course Coordination, Course Director, Dept of Otolaryngology - Head & Neck Surgery, Faculty of Medicine, University of Toronto. (Continuing Education, Specialty: Rhinology and Advanced Sinus Surgery).

Leadership Activities

ADAMSON, P

2014 - present	Member, International Advisory Board. JAMA Facial Plastic Surgery.
2011 - present	Advisor. Facial Plastic Surgery Clinics Advisory Board.
2011 - present	Advisor. Pan Asian Academy of Facial Plastic and Reconstructive Surgery.
1994 - present	President and Founder. Face The Future™ Foundation (Previously Canadian Foundation for Facial Plastic and
	Reconstructive Surgery).

Manuscript Reviewer

1997 - present	The Laryngoscope. A	American Laryngological,	Rhinological, and	Otological Society, Inc.

- 1995 present Journal of Otolaryngology-Head and Neck Surgery. American Academy of Otolaryngology-Head and Neck Surgery.
- 1981 present Journal of Otolaryngology. Canadian Society of Otolaryngology Head & Neck Surgery.

American Academy of Facial Plastic and Reconstructive Surgery

- 2015 present Senior Program Chairman, Advanced Rhinoplasty 2017, Chicago, Illinois. May 2017.
- 2007 present Member, Ethics Committee.
- 2002 present Member, Howard W. Smith M.D. Legacy Society.
- 1987 present Director, Fellowship Program.
- 1986 present Facial Plastic Surgery Resident Liaison (Liaison of AAFPRS with University of Toronto).

American Board of Facial Plastic and Reconstructive Surgery

- 2007 present Member, FPS Archives Advisory Council.
- 2006 present Member, Audit Committee.
- 2006 present Member, Bylaws and Publications Committee.
- 2003 present Senior Advisor, Board of Directors.
- 1996 present Trustee, Robert L. Simons Leadership Society.
- 1989 present Board Examiner (2 day annual examinations).
- 1989 present Contributor of oral examination protocols.

International Board for Certification in Facial Plastic and Reconstructive Surgery

- 2012 present President.
- 2013 present Presided over and examined at annual examinations of the European Board for Certification in Facial Plastic and Reconstructive Surgery (EBCFPRS) and IBCFPRS in London, England.

Public Service Activities

- Oct 2015 Face the Future[™] Foundation humanitarian mission to Chiclayo, Peru to assess new mission feasibility. Dr. Adamson and Dr. José Barrera.
- Feb 2016 Face the Future[™] Foundation humanitarian mission to the Rwanda Military Hospital, Kigali, Rwanda. Chef de Mission for team of 13.
- Jun 2016 Face the Future[™] Foundation humanitarian mission to the Ulyanovsk Regional Pediatric Hospital, Ulyanovsk, Russia (FTF Ulyanovsk major mission #5). Chef de Mission for team of 7. Demonstration surgery.

ANDERSON, J

University of Toronto

2015 - present Anaesthesia Merit Award Committee, Faculty of Medicine, Dept of Otolaryngology - Head & Neck Surgery, Faculty Development.

St. Michael's Hospital

2014 - present Perioperative Services Operational Review Committee. 2009 - present Mobility Management Committee. Chair of Multidisciplinary Cancer Conference / Tumour Board Rounds. 2009 - present 2009 - present Internal Grant Reviewer, SMH Innovation Alternate Funding Plan Grants. 2005 - present Member, Medical Advisory Committee. 2003 - present Executive Member, Alternate Funding Plan Management Executive Committee. 1995 - present Member, Perioperative Services Program Committee. 1994 - present Member, Perioperative Services Advisory Group.

Manuscript Reviewer

- 2015 present American Journal of Respiratory and Critical Care Medicine.
- 2008 present Journal of Otolaryngology-Head & Neck Surgery.

ASARIA, J

2016 - present	Guest Examiner, American Board of Facial Plastic and Reconstructive Surgery.
2010 - present	Committee Member, Emerging Trends and Technologies, American Academy of Facial Plastic and Reconstructive
	Surgery.
2010 - present	Committee Member, CME Committee, American Academy of Facial Plastic and Reconstructive Surgery.
2010 - 2015	Committee Member, FACE to FACE, American Academy of Facial Plastic and Reconstructive Surgery.

BRADLEY, G

2016- present	Council of Health Sciences Extended Group (representative for Faculty of Dentistry).
2016 - present	Editorial Board, Oral Diseases.
2016	Advisory Committee for the Dean of the Faculty of Dentistry.
2014 - present	Academic Continuity Working Group, University of Toronto.
2014 - present	Editorial Board, Oral & Maxillofacial Pathology section, Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology.
2012 - present	Director, Oral Pathology & Oral Medicine graduate program, Faculty of Dentistry.
2010 - 2015	Council of Health Sciences Education Subcommittee (CHSES) and the Working Group on Educational Technology,
	University of Toronto.
2007 - 2016	Associate Dean, Biological and Diagnostic Sciences, Faculty of Dentistry.

BRANDT, M

2016	Grant Reviewer. Combined Otolaryngology Research Effort (CORE) Grant Review. American Academy of
	Otolaryngology – Head and Neck Surgery.
2012 - 2016	Electronic Communications Editor. Canadian Society of Otolaryngology – Head & Neck Surgery.
2013 - present	Ontario Regional Representative – Community. Canadian Society of Otolaryngology – Head & Neck Surgery.
2011 - present	Fellowship Committee. American Academy of Facial Plastic and Reconstructive Surgery.
2010 - present	Membership & Residency Relations Committee. American Academy of Facial Plastic and Reconstructive Surgery.
2010 - present	Research Committee. American Academy of Facial Plastic and Reconstructive Surgery.
2010 - present	Young Physicians Committee. American Academy of Facial Plastic and Reconstructive Surgery.

Manuscript Reviewer

2012 - Present	Anatomical Sciences Education.
2011 - Present	International Forum of Allergy & Rhinology.
2010 - Present	American Journal of Rhinology & Allergy.
2008 - Present	The Laryngoscope.
2007 - Present	Journal of Otolaryngology – Head and Neck Surgery.

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LEADERSHIP ACTIVITIES

BROWN, DH

2004 - present	Member Editorial Board, The Laryngoscope.
2003 - present	Member Editorial Board, European Archives of Otorhinolaryngology.
1994 - present	Member Editorial Board, British Medical Journal.

BROWN, D

2012 - present	Division Chief, Otolaryngology, The Scarborough Hospital
2012 - present	Deputy Chief of Surgery, The Scarborough Hospital.
2012 - present	Member, Operating Room Committee, The Scarborough Hospital.
2012 - present	Member, Performance Improvement Committee, The Scarborough Hospital.
2015 - present	Physician Lead, Ambulatory Care Refresh Group, The Scarborough Hospital.

CAMPISI, P

Triological Society

2013 - present Eastern Section Liaison, Combined Sections Program Committee.

Canadian Society of Otolaryngology - Head & Neck Surgery

2015 - present Bylaws Chair.
2013 - present Member, Fellowship Committee.
2012 - present Chair, Pediatric Otolaryngology Study Group.

Royal College of Physicians and Surgeons of Canada

- 2012 present Member, Otolaryngology Head and Neck Surgery Specialty Committee.
- 2012 present Member, Otolaryngology Head and Neck Surgery Examination Committee.

University of Toronto

2012 - present Member, Foundations of Surgery Committee.
 2012 - present Member, Postgraduate Medical Education Advisory Committee.

Manuscript Reviewer

- 2010 present Journal of Pediatric Hematology and Oncology.
- 2009 present Pediatric Infectious Disease Journal.
- 2006 present Archives of Otolaryngology, Head & Neck Surgery.
- 2005 present Journal of Otolaryngology Head & Neck Surgery.
- 2005 present The Laryngoscope.
- 2004 present International Journal of Pediatric Otorhinolaryngology.
- 2004 present Paediatrics and Child Health.

CHAN, Y

University of Toronto

- 2014 2015 Member, Course Planning Committee, Current Concepts of Head & Neck Surgery, Faculty of Medicine, Dept of Otolaryngology - Head & Neck Surgery.
- 2013 present CPD Taskforce Leader, Strategic Planning Committee, Faculty of Medicine.
- 2012 present Member, CE Directors and Leaders Committee, Faculty of Medicine.
- 2012 present Member, Continuing Professional Development Committee, Faculty of Medicine.
- 2011 present Coordinator, Mississauga Academy of Medicine, Faculty of Medicine, Department of Otolaryngology Head & Neck Surgery.

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Canadian Society of Otolaryngology-Head & Neck Surgery

2009 - present Member, Rhinology Working Group.

American Academy of Otolaryngology Head and Neck Surgery

2015 - present Member, Rhinology and Allergy Education Committee.2015 - present Member, Rhinology and Paranasal Sinus Committee.

American Rhinologic Society

2015 - present Member, Continuing Medical Education Committee.

Associate or Section Editing

2014 - 2015 Editor, Essential Otolaryngology - Head and Neck Surgery 11th Edition. 2010 - present Associate Consulting Editor, Plural Publishing Inc.

Manuscript Reviewer

- 2014 present American Journal of Rhinology & Allergy.
- 2014 present International Forum of Rhinology & Allergy.
- 2012 present Journal of Otolaryngology Head & Neck Surgery.

CHANG, M

2015	Member, Cancer Care Ontario Thyroid Cancer Disease Pathway Management Development Committee.
2014 - present	Chair, RVHS Thyroid Oncology Multidisciplinary Cancer Conference Rounds
2014 - present	Organizer, Combined East GTA Otolaryngology Journal Club (NYGH, TEGH, RVHS, TSH Hospitals).
2013 - present	Member, Credentials Committee – RVHS.
2011 - present	Assessor, Out of Hospital Premises Inspection Program (OHPIP), College of Physicians and Surgeons of Ontario.
2010 - present	Surgical Program Executive Committee – Otolaryngology representative RVHS.
2010 - present	Cancer Care Ontario Program – RVHS: Lead for Thyroid Cancer.
2010 - present	Peer Assessor, College of Physicians and Surgeons of Ontario.

CHEN, J

2012 - present	Provincial Coordinator, Ontario Cochlear Implant Program, Patient and Public Education, Ministry of Health &
	Toronto Central LIHN.
2011 - present	Examiner, Fellowship Examination Board, Royal College of Physicians and Surgeons of Canada, Otolaryngology.
2003 - present	Advisor/Medical Consultant, Canadian Acoustic Neuroma Society.
1995 - present	Manuscript Reviewer, Journal of Otolaryngology-Head & Neck Surgery.
1993 - present	Member, Ontario Cochlear Implantation Program.

Sunnybrook Health Sciences Centre

- 1994 present Member, SHUTC Board of Directors.
- 1992 present Member, Skull Base Tumor Board.
- 2007 present Member, Medical Advisory Committee (MAC).
- 2007 present Member, Senior Medical Council.
- 2007 present Member, OR Management Committee.

CHEPEHA, D

- 2016 present Head and Neck General and Head and Neck Core Committee Member, NRG Oncology.
- 2015 present AAO-HNS Microvascular Committee.
- 2015 present Head and Neck Fellowship Program Member, Department of Otolaryngology-Head & Neck Surgery, University of Toronto.

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University Health Network - Princess Margaret Cancer Centre

- 2016 present PM Ambulatory Operations and Quality Committee.
- 2015 present Interprofessional Model of Care Committee.
- 2015 present Joe Finley Head and Neck Translational Program Committee.
- 2015 present Tissue Committee, Head & Neck Translational Program.
- 2015 present Head & Neck Survivorship Research Committee.
- 2014 present Head and Neck Surgical Oncology Committee.

Manuscript Reviewer

Microsurgery. Annals of Surgical Oncology. Archives of Otolaryngology-Head & Neck Surgery. Head and Neck. Journal of Otolaryngology-Head & Neck Surgery. The Laryngoscope.
Otolaryngology-Head and Neck Surgery.

CHIODO, A

Michael Garron Hospital (formerly Toronto East General Hospital)

- 2015 present Member, Credentials Committee, Toronto East General Hospital.
- 2014 present Member, Medical Advisory Committees.
- 2014 present Member, Surgical Council.
- 2014 present Member, Quality Based Program on Adenotonsillectomy Committee.
- 2013 present Chair, TEGH Thyroid Program Committee.
- 1998 present Member, Medical Staff Association.

CHOW, KY

2007 - present Member - Board of Directors - Opalux Inc., Toronto, Ontario, Canada.

CUSHING, S

2010 - present Member, Editorial Board, Otology Neurotology.

Manuscript Reviewer

- 2016 present Neural Plasticity.
- 2015 present Audiology and Neurotology.
- 2015 present International Journal of Audiology.
- 2015 present Otolaryngology Head and Neck Surgery.
- 2015 present Croatian Review of Rehabilitation Research.
- 2015 present European Archives of Oto-Rhino-Laryngology.
- 2014 present Pediatrics.
- 2013 present The Laryngoscope.
- 2013 present Cochlear Implants International.
- 2013 present Ear and Hearing.
- 2012 present PLOS ONE.
- 2012 present Annals of Otology, Rhinology, & Laryngology.
- 2011 present International Journal of Pediatric Otorhinolaryngology.

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Abstract Judge - Reviewer

2015	14th International Conference on Cochlear Implants and Other Implantable Technologies
2015	Objective Measures Meeting 2015.
2015	SENTAC 2015 Annual Meeting.

DABDOUB, A

2013 - 2016 Member, International Committee, Association for Research in Otolaryngology.
2013 - 2015 Organizer, Trainee Seminar Series, Graduate Education, Sunnybrook Research Institute.
2015 - present Member, Decanal Promotions Committee, Faculty of Medicine, University of Toronto.

Manuscript Reviewer

Aging Cell.
BMC Developmental Biology.
Development.
Developmental Dynamics.
Frontiers in Cellular Neuroscience.
Gene Expression Patterns.
Genesis.
Growth Factors.
Hearing Research.
International Journal of Cancer.
International Journal of Developmental Neuroscience.
Journal for Oto-Rhino-Laryngology.
Journal of Comparative Neurology.
Journal of Experimental Biology.
Journal of Neurochemistry.
Journal of Neuroscience.
Journal of the Association of Research in Otolaryngology.
Neuroscience.
Neuroscience Letters.
PLoS Genetics.
PLoS One.
Proteomics.
Scientific Reports.

DAVIDSON, J

2015 - present	AFP Board Member.
2014 - present	Health Information Management Committee, Women's College Hospital.
2011 - present	Hand Hygiene Committee, Sunnybrook Health Sciences Centre.
2010 - present	Undergraduate Site Co-ordinator, Dept of Otolaryngology - Head & Neck Surgery, Sunnybrook Health Sciences
	Centre.

de ALMEIDA, J

Manuscript Reviewer

- 2016 present Journal of Neurological Surgery Part B Skull Base.
- 2016 present Journal of Otolaryngology Head & Neck Surgery.
- 2014 present Annals of Otology, Rhinology & Laryngology.
- 2014 present Cancer.
- 2012 present Head & Neck.
- 2009 present The Laryngoscope.

LEADERSHIP ACTIVITIES

ELLIS, D

2009 - present CPSO Peer Assessor – Out of Hospital Peer Assessor.

ENEPEKIDES, D

2008 - present Head and Neck Fellowship Program Member, Department of Otolaryngology-Head & Neck Surgery, University of Toronto.

American Head & Neck Society

2012 - present Advanced Training Council - Subcommittee on Robotic Surgery.

2011 - present Member, Advanced Training Council Committee.

Cancer Care Ontario

2013 - present	Regional Surgical Oncology Lead, Toronto Central North.
2012 - present	Head and Neck Disease Site Group Member.
2014 - 2015	Quality Management in Pathology Professional Practices Expert Panel.

Sunnybrook Health Sciences Centre

2012 - present Operating Room Utilization Committee.

2007 - present Member, Laser Safety Committee.

Manuscript Reviewer

2002 - present Otolaryngology-Head and Neck Surgery.

- 2002 present Archives of Otolaryngology Head and Neck Surgery.
- 2002 present The Laryngoscope.

FALLS, C

2016	Organizer and Facilitator, 2nd Annual Comprehensive Practical Vestibular Assessment Course. Toronto, ON.
2014 - present	Co-editor, Tech Reviews, ENT & Audiology News.
2015 - present	Member and co-author, Canadian Vestibular Best Practice Guidelines Committee.
2013 - present	Member, National Vestibular Special Interest Group.
2011 - present	Member, Canadian Academy of Audiology.

FREEMAN, J

2009 - present	Editorial Board, Journal of Thyroid Research.
2009 - present	Editorial Board, Special Reviewer for UICC Fellowships.
1992 - present	Member, Royal College of Surgeons of Canada Committee on Principles of Surgery Examination.
1990 - present	Review Board, Surgery, Obstetrics and Gynaecology.
1989 - present	Review Board, Head and Neck Surgery.
1989 - present	Editorial Board. Operative Techniques in Otolaryngology - Head and Neck Surgery.

GANTOUS, A

2016	Planning Committee, Septorhinoplasty Update 2016, University of Toronto.
2014 - present	Canadian Regional Director, American Academy of Facial Plastic Surgery Board of Directors.
2013 - present	Treasurer, Canadian Academy of Facial Plastic and Reconstructive Surgery.

Manuscript Reviewer

2016 - present JAMA Facial Plastic Surgery.

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GEVORGYAN, A

2015 - present Editorial Board, Rhinology, ("Top Reviewer 2014").

Manuscript Reviewer

2015 - presentAllergy.2012 - presentRhinology.

GILBERT, R

- 2007 present Chair, Division of Head and Neck Surgery, Faculty of Medicine, Dept of Otolaryngology Head & Neck Surgery.
 2007 present Member, Division of Facial Plastics and Reconstructive Surgery Committee, Faculty of Medicine, Dept of Otolaryngology Head & Neck Surgery.
 2003 present Member, Planning Committee, Annual Wharton/Elia Day, with the Sullivan Lecturer, Faculty of Medicine, Dept of Otolaryngology Head & Neck Surgery, Continuing Education.
 1000 present Reviewer Editorial Pagerd Head & Neck
- 1999 present Reviewer, Editorial Board, Head & Neck.
- 1991 present Member, Practice Guidelines Initiative, Provincial Head and Neck Cancer Disease Site Group, Cancer Care Ontario.

National Cancer Institute of Canada (NCIC)

- 2005 present Co-chair, Head and Neck Clinical Trials Group.
- 2001 present Member, Head and Neck Site Group.

Princess Margaret Cancer Centre

- 2008 present Chair, Cancer Program Quality Committee.
- 2001 present Member, Cancer Committee.
- 2001 present Member, Management Council, Department of Surgical Oncology.

University Health Network

- 2009 present Member, Board of Trustees.
- 2001 present Member, Otolaryngology-Head & Neck Surgery/Plastics Business Unit Committee, Faculty of Medicine, Dept of Otolaryngology - Head & Neck Surgery.

GOLDSTEIN, D

- 2015 present Member, Publications Committee, American Head & Neck Society.
 2014 present Member, Thyroid Cancer Guidelines Expert Panel Working Group, Cancer Care Ontario; Program in Evidence Based Medicine.
 2013 present Co-Surgical Lead, Endocrine Communities of Practice, Cancer Care Ontario.
 2011 present Member, Microvascular Surgery Committee, American Academy of Otolaryngology- Head and Neck Surgery.
- 2011 present Board of Directors, Member of the Board, Melanoma Network of Canada.

Princess Margaret Cancer Centre

- 2009 present Member, Head & Neck Cancer Tissue Committee.
- 1998 present Member, Cancer Registry and Staging Committee.

University of Toronto

- 2014 present Member, Departmental Research Committee, Faculty of Medicine, Department of Otolaryngology Head & Neck Surgery.
- 2014 present Council Member, Faculty Council, Faculty of Medicine.

LEADERSHIP ACTIVITIES

Manuscript Reviewer

2015 - present	Clinical Otolaryngology.
2014 - present	Cancer.
2012 - present	Journal of Clinical Oncology.
2012 - present	Journal of Reconstructive Microsurgery.
2012 - present	Journal of Skin Cancer.
2012 - present	Journal of Surgical Oncology.
2009 - present	European Journal of Cancer.
2009 - present	World Journal of Surgery.
2008 - present	Archives of Otolaryngology.
2007 - present	Canadian Medical Association Journal.
2007 - present	Head & Neck.
2006 - present	Journal of Otolaryngology Head & Neck Surgery.
2006 - present	Otolaryngology Head and Neck Surgery.

GOODEN, E

2014 - present	Chief of Staff, North York General Hospital.
2014 - present	Ex-officio Director, North York General Hospital Board of Governors.
2014 - present	Chair, Medical Advisory Committee, North York General Hospital.
2012 - present	Development Committee. North York General Hospital Foundation.
2010 - present	Surgical Program Governance Committee. North York General Hospital.
2010 - present	Director, North York General Hospital Foundation Board of Governors.

GORDON, K

2015	PhD Thesis External Examiner, MJW Lammers, M.D. Supervisor: Prof. W. Grolman, University Medical Centre
	Utrecht.
2015	Member, Program Committee, Society for Ear, Nose and Throat Advances in Children.
2014-present	Member, International Advisory Board on Objective Measures in Auditory Implants.

The Hospital for Sick Children

2010 - present	Member, Scientific Advisory Board, Neuroscience and Mental Health.	
2010 - present	Member, Restracomp Committee, Research Training Centre.	

University of Toronto

2014-present	Member, Appointment Committee, Institute of Medical Sciences.
2011-present	Member, Admissions Committee, Institute of Medical Science.
2015	Marker, Portfolio assignments, Department of Speech-Language Pathology, University of Toronto.

GULLANE, P

2007 - present	Associate Editor, Head and Neck.
2005 - present	Council Member, International Federation of Head and Neck Oncologic Societies.
2005 - present	Member, Editorial Board, Journal Auris Nasus Larynx, International Journal of ORL & HNS (Elsevier) – Japan.
2003 - present	Member, Editorial Board, On Line Journal Head and Neck Surgery-Oncology.
2002 - present	Council Member, American Head & Neck Society.
2000 - present	Senior Scientist, Cancer Informatics Division of OCI (Sub Committee of Research Council), Ontario Cancer
	Institute.
2000 - present	Member, Editorial Board, The Laryngoscope.
1999 - present	Member, International Advisory Board, The Saudi Journal of Oto-Rhino-Laryngology Head and Neck Surgery.
1997 - present	Faculty Member, SIPac (Self-Instructional Packages), American Academy of Otolaryngology - Head and Neck
	Surgery.

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- 1993 present Medical Assessor, Workers' Compensation Appeals Tribunal.
- 1993 present Member, Editorial Board, American Journal of Otolaryngology.
- 1991 present Member, Editorial Review Board, Journal of Skull Base Surgery.
- 1991 present Member, Editorial Review Board, Les Annales d'Otolaryngologie et de Chirrurgie Cervico-Faciale (France).
- 1989 present Founding Member, North American Skull Base Society.
- 1989 present Member, Editorial Review Board, American Academy of Otolaryngology Head and Neck Surgery, SIPac Faculty.

Manuscript Reviewer

- 2004 present Lebanese Journal.
- 2002 present Journal of Vascular Surgery.
- 1991 present Journal of Skull Base Surgery.
- 1991 present Les Annales d'Otolaryngologie et de Chirrurgie Cervico-aciale (France).
- 1981 present Journal of Otolaryngology Head & Neck Surgery.

HARRISON, R

2015	Member of inaugural meeting of CHART - Canadian Hearing and Auditory Research Translation group. Halifax,
	Nova Scotia.
2015	Attending Member of CCICG (Canadian Cochlear Implant Centres Group) Annual meeting. 2015 Nov. Toronto,
	Ontario.
2015, 2016	Member, Canadian Institutes of Health Research. Grants committee, Fellowship Competition.
2015 - 2016	Academic Board, University of Toronto, elected Faculty of Medicine representative.
2016	Member, Scientific Organizing Committee: Cochlear Implant International meeting (Cl 2016) Toronto, Ontario.

HASSOUNEH, B

Manuscript Reviewer

2015 - present JAMA Facial Plastic Surgery. Special expertise in research methodology and biostatistics.

HEKKENBERG, R

2016 - present	Access to Care Ontario otolaryngology provincial representative.
2015 - present	Cancer Care Ontario surgical oncology lead north Simcoe Muskoka LHIN

HIGGINS, K

· ·	
2016 - present	Member, CPOE Advisory Committee, Sunnybrook Health Sciences Centre.
2016 - present	Member, Oropharyngeal Cancer Pathway Map Working Group, Cancer Care Ontario.
2015 - present	Member, Head & Neck Reconstruction Committee, American Head & Neck Society.
2015 - present	Member, 2016 Program Committee, American Head & Neck Society/9th International Conference on Head and
	Neck Cancer.
2015	Co-chair, Head and Neck ERAS program, Sunnybrook Health Sciences Centre.
2015	External Reviewer, Division of Otolaryngology-Head and Neck Surgery, McMaster University Faculty of Medicine,
	Department of Surgery.
2014 - present	Member, Microvascular Committee, American Academy of Otolaryngology-Head and Neck Surgery
2014 - present	Member of Eastern Section Nominating Committee, Triologic Society.
2010 - present	Program in Evidenced-Based Care, Cancer Care Ontario.
2003 - present	Head and Neck Fellowship Program Member, Department of Otolaryngology-Head & Neck Surgery, University of
	Toronto.

Manuscript Reviewer

2012 - present Craniomaxillofacial Trauma and Reconstruction.

2012 - present Thyroid.

LEADERSHIP ACTIVITIES

- 2011 present Clinical Otolaryngology.
- 2010 present Otolaryngology-Head and Neck Surgery.
- 2010 present Head & Neck.
- 2006 present The Laryngoscope.
- 2005 present Journal of Otolaryngology- Head & Neck Surgery.

IRISH, J

2016	Quality Care Symposium, Planning Committee, Phoenix, American Society of Clinical Oncology	
2014 - present	Member, Advisory Committee Robotic Assisted Minimally Invasive Surgeries, Health Quality Ontario.	
2012 - 2016	Conference Chair, 9th International Conference on Head and Neck Cancer.	
2010 - present	Associate Editor, Head & Neck.	
2010 - present	Member, Editorial Board, Head & Neck.	
2005 - present	Expert Reviewer, Patient Education, Canadian Cancer Society.	
2001 - present	Member, Research Council in Oncology, Ontario Cancer Institute.	
2001 - present	Member, Surgical Programs Management Committee, Toronto General Hospital.	

American Head and Neck Society

- 2012 present External Reviewer, Thomas Jefferson University Fellowship Program.
- 2011 present Member, CME Measurement Task Force.
- 2011 present Member, Council.
- 2015 2016 Vice President.

Cancer Care Ontario

- 2012 present Clinical Sponsor, Sarcoma Services Steering Committee.
- 2009 present Chair, Models of Care Task Force-AFP-SRF Task Force.
- 2009 present Member, Diagnostic Assessment Program Leadership Team.
- 2008 present Member, Multidisciplinary Cancer Conference Provincial Leadership Team.
- 2008 present Member, Clinical Council.
- 2008 present Member, Clinical Programs Operation Committee.
- 2008 present Provincial Head, Surgical Oncology Program, Ontario.
- 2008 present Chair, Cancer Surgery Coordinating Committee.
- 2006 present Member, Wait Times Leadership Committee.
- 2005 present Chair, Toronto Central Surgical Oncology Council, Ontario.
- 2004 present Lead, Access to Care and Strategic Funding Initiatives, Surgical Oncology Program.

Ministry of Health and Long Term Care

- 2012 present Member, Head and Neck Organizational Standards Implementation Steering Committee.
- 2009 present Chair, Surgery and Diagnostic Imaging Council, Access to Care.
- 2005 present Chair, Clinical Expert Panel-Cancer/Clinical Lead, Cancer Surgery.

Princess Margaret Cancer Centre

- 2001 present Member, Cancer Program Executive Committee.
- 2001 present Director, Surgical Services.

University Health Network

- 2005 present Chair, Surgical Oncology Management Council.
- 2001 present Member, Surgical Services Executive Committee.
- 2001 present Member, Surgical Executive Committee.

Manuscript Reviewer

- 2015 present Journal of Clinical Oncology.
- 2008 present Cancer.
 2003 present The Laryngoscope.
 2003 present Otolaryngology-Head and Neck Surgery.
 2002 present Head & Neck.
 2002 present Journal of Surgical Oncology.
 1999 present Archives of Otolaryngology.
- 1996 present British Medical Journal.
- 1990 present Journal of Otolaryngology Head & Neck Surgery.

JAMES, A

2016 - present	Representative to the National Audit Committee, Triological Society - Eastern Section.	
2016 - present	Member, Editorial Board, Journal of International Advanced Otology.	
2016 - present	Member, Editorial Board, Otology & Neurotology.	
2013 - present	National In Training Examination Committee.	
2011 - present	Member, Editorial Board, Cochlear Implants International.	
2008 - present	Member, Editorial Board, The Cochrane Library (Ear, Nose & Throat Disorders Group).	

The Hospital for Sick Children

- 2014 present Departmental Representative, Medical Staff Association, Toronto, Ontario, Canada.
- 2013 present Department of ORL-HNS Resource portfolio.
- 2005 present Member, Annual HSC Otolaryngology-HNS fellow selection panel, Faculty of Medicine, Department of Otolaryngology - Head & Neck Surgery, Toronto.

Manuscript Reviewer

- 2015 present Acta Otolaryngologica.
- 2014 present British Medical Journal.
- 2014 present The Laryngoscope.
- 2011 present Cochlear Implants International.
- 2011 present Otolaryngology Head and Neck Surgery.
- 2011 present Otology & Neurotology.
- 2009 present Clinical Otolaryngology.
- 2008 present International Journal of Pediatric Otorhinolaryngology.

KORMAN, M

- 2013 present Co-chair, Doctors for Wiesenthal, Friends of the Simon Wiesenthal Centre, Canada.
- 2007 present Member, International Society of Hair Restoration Surgery.
- 2006 present Canadian Academy of Facial Plastic and Reconstructive Surgery.
- 2004 present Diplomate, American Board of Otolaryngology.

LAUGHLIN, S

- 2016 present Secretary Treasurer, Medical Staff Association The Hospital for Sick Children.
- 2016 present MSA Secretary Treasurer, Medical Advisory Committee The Hospital for Sick Children.
- 2016 present MSA Secretary Treasurer, Quality Management Council The Hospital for Sick Children.

LEE, A

2016

Treasurer, Mackenzie Richmond Hospital.

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LEADERSHIP ACTIVITIES

LEE, J

Editorial Board, F1000 Prime: Section on Rhinology and Paranasal Sinus Disease.
Member of Advisory Board, F1000 Research.
Member of Editorial Board, American Journal of Rhinology & Allergy.
Member, Rhinology Working Group, Canadian Society of Otolaryngology-Head & Neck Surgery.

American Rhinologic Society

2013 - presentMember, Scientific Awards Committee.2010 - presentMember, Information Technology Committee.

University of Toronto

2012 - present Undergraduate Site Director, Otolaryngology-Head & Neck Surgery, Fitzgerald Academy, St. Michael's Hospital.

Manuscript Reviewer

- 2010 present International Forum of Allergy & Rhinology.
- 2009 present American Journal of Rhinology & Allergy.
- 2009 present Journal of Otolaryngology-Head & Neck Surgery.
- 2008 present ORL, Journal for Oto-Rhino-Laryngology, Head & Neck Surgery.

LIN, V

- 2015 present National Lead for Canadian Society of Otolaryngology Head & Neck Surgery, Choosing Wisely Canada, Toronto, Ontario, Canada.
- 2014 2016 Planning Committee of 14th International Conference on Cochlear Implant, American Cochlear Implant Alliance.
- 2013 present Sunnybrook Health Sciences Centre, Postgraduate Director, Faculty of Medicine, Department of Otolaryngology -Head & Neck Surgery.
- 2011 present Research Advisor, Postgraduate Committee, Research Coordinator, Faculty of Medicine, Department of Otolaryngology - Head & Neck Surgery.
- 2011 present Clinical and Research Advisor, Audiology, ENT and Speech Working Group, Faculty of Medicine, Department of Otolaryngology Head & Neck Surgery, Patient and Public Education, Ontario Health Study, Toronto, Ontario, Canada.
- 2011 present Reviewer. F1000, Otolaryngology, United Kingdom.
- 2010 present External Grant Reviewer, Medical Research Council.
- 2008 present External Grant Reviewer, Canadian Institute of Health Sciences.
- 2008 present Contributor, Otolaryngology-Head & Neck Surgery Annual Resident In-Service Examination.

Canadian Society of Otolaryngology-Head & Neck Surgery

- 2015 present Ontario Representative, Executive Committee.
- 2011 present Member, CSO Poliquin Resident Research Competition.
- 2009 present Otology Working Group.

Ontario Assistive Devices Program

2015 - 2016 Clinical and Research Advisor, Hearing Aid Review Committee.

Manuscript Reviewer

- 2014 present Journal of Medical and Biomedical Engineering.
- 2012 present Otolaryngology Head and Neck Surgery.
- 2009 present The American Journal of Case Reports.
- 2008 present Journal of Otolaryngology Head & Neck Surgery.

LIU, FF	
2016 - 2017 2016	Member, American Head & Neck Society, 9th International Conference on Head & Neck Cancer. Presentation Reviewer, American Head & Neck Society, Abstract Review for the AHNS 9th International Conference on Head & Neck Cancer.
2015 - 2017	Vice Chair, University Health Network, Medical Advisory Board.
2015 - 2016	Grant Reviewer, Canadian Cancer Society Research Institute, Innovation Grants Review Panel.
2015 - 2016	Grant Reviewer, Canadian Cancer Society Research Institute, Innovation to Impact Grants Review Panel.
2015 - present	Co-chair, University Health Network, Delegated Order Sets, Medical Acts Committee.
2015	Grant Reviewer, Hong Kong Special Administrative Region Grants.
2015	Grant Reviewer, Research Grants Council for the University Grants Committee, HKSAR and the People's Republic of China.
2015	Grant Reviewer, Canadian Foundation for Innovation, Funding for Research Infrastructure Review Panel.
2015	Grant Reviewer, Canadian Institutes of Health Research, CPT Panel.
2015	Term Reviewer, Canadian Breast Cancer Foundation, Ontario Region Chair in Surgical Breast Cancer Research Five-Year Term Review.
2015	Member, Oak Ridge Associated Universities, Florida Department of Health's Biomedical Research Programs.
2012 - present	Member, University of Pennsylvania, Advisory Board; Research Training Program.
2012 - present	Member, Chinese University of Hong Kong – NPC, Advisory Board.

MARTINO, R

2016	Scientific Faculty, American Head & Neck Society.
2016	Content expert, Hospital Harm Indicator Resource Library for Aspiration Pneumonia, Canadian Patient Safety
	Institute.
2016	Judge, Postdoctoral Competition, Krembil Research Institute (formerly Toronto Western Research Institute).
2015 - present	External Grant Reviewer. Canadian Institutes of Health Research, Doctoral Research Awards.
2014 - present	Member, Research Network on Stroke and Dysphagia, European Society for Swallowing Disorders.
2014 - present	Dysphagia Expert, Stroke Best Practices Rehabilitation Writing Group, Heart and Stroke Foundation of Canada.
2013 - present	Associate Editor, Dysphagia.
2012 - present	Member, Dysphagia Guideline Development, Canadian Association of Gastroenterology.

Dysphagia Research Society (DRS)

- 2013 present Co-chair, Multidisciplinary Scientific Advancement Ad Hoc Committee.
- 2012 present Member, Past President Advisory Council.
- 2015 2016 Member, Scientific Program.
- 2015 2016 Member, Nominating Committee.

Speech-Language and Audiology Canada (SAC)

2016 - present Member, Current Clinical Issues in Dysphagia Practice in Canada Ad Hoc Committee.

2003 - present Cochrane Affiliate.

University of Toronto

2016	Chair, Unit 6, Faculty of Medicine, Dept of Speech-Language Pathology.
2016	Chair, Comprehensive Exam, Faculty of Medicine, Rehabilitation Sciences Institute.
2016	Member, Admissions Committee, Faculty of Medicine, Dept of Speech-Language Pathology.
2016	Examiner, MSc Defense, Faculty of Medicine, Rehabilitation Sciences Institute.
2014 - present	Chair, Department Appointments Committee (DAC), Faculty of Medicine, Department of Speech-Language
	Pathology.
2014 - 2015	Chair, Rehab Appointments Committee (RAC), Faculty of Medicine, Rehabilitation Sciences Institute.

LEADERSHIP ACTIVITIES

- 2014 2015 Member, Teaching Evaluation Committee, Faculty of Medicine, Department of Occupational Science & Occupational Therapy.
- 2013 2016 Faculty Member, Life Sciences (Division IV), Graduate Academic Appeals Board, School of Graduate Studies.
- 2011 2015 Member, Website Committee, Faculty of Medicine, Dept of Speech-Language Pathology.
- 2011 2015 Member, Examination Committee, Faculty of Medicine, Dept of Speech-Language Pathology.

Manuscript Reviewer

2016 - present	PLOS ONE.
2015 - present	International Journal of Stroke.
2015 - present	Journal of Applied Physiology.
2015 - present	Journal of Critical Care.
2014 - present	Annals of Internal Medicine.
2014 - present	Journal of the Royal Society Interface.
2014 - present	Speech, Language and Hearing.
2014 - present	The Laryngoscope.
2013 - present	Canadian Journal of Speech-Language Pathology and Audiology.
2013 - present	Gut.
2013 - present	International Journal of Speech-Language Pathology.
2013 - present	Journal of Cancer Survivorship: Research and Practice.
2013 - present	Journal of Fluency Disorders.
2013 - present	Journal of Speech, Language, and Hearing Research.
2013 - present	Movement Disorders.
2012 - present	Annals of Otology, Rhinology & Laryngology.
2012 - present	European Journal of Neurology.
2012 - present	International Journal of Language & Communication Disorders.
2011 - present	Respiratory Physiology & Neurobiology.
2010 - present	American Journal of Speech-Language Pathology.
2009 - present	Archives of Physical Medicine and Rehabilitation.
2009 - present	Otolaryngology – Head and Neck Surgery.
2008 - present	Head & Neck.
2004 - present	Stroke.
2000 - present	Dysphagia.

Scientific Conference Reviews

2016 Abstract Reviewer, American Head and Neck Society.
2013 - 2016 Abstract Reviewer, Dysphagia Research Society (DRS), Scientific Abstracts.

Scientific Conference Award Judge

- 2015 Poster Judge, Dysphagia Research Society (DRS).
- 2013 2015 Oral Scientific Session Judge, Dysphagia Research Society (DRS).

Tenure Reviews

- 2015 University of Texas MD Anderson Cancer Center, Department of Head & Neck Surgery, Promotion to Associate Professor.
- 2015 University of Toronto, Rehabilitation Sciences Institute, Teaching Evaluation Committee.

MONTEIRO, E

2015 - present Postgraduate Medical Education Committee – Department of Otolaryngology-Head & Neck Surgery. Committee representative for Quality and Patient Safety and Sinai Health System. University of Toronto.

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- 2015 present Undergraduate Medical Education Health Science Research Course. Advisor regarding implementation of Quality and Patient Safety into the course. University of Toronto.
- 2015 present Undergraduate Medical Education Quality and Patient Safety Committee. Committee Member Development and incorporation of a quality and patient safety education curriculum for undergraduate medical students. University of Toronto.
- 2015 Cancer Care Ontario. Invited reviewer for paranasal sinus cancer patient website material.
- 2015 Cancer Care Ontario. Thyroidectomy Quality Based Procedure (QBP) working group. Committee Member.
- 2014 2015 Diagnostic Imaging Appropriateness Committee (UHN, MSH). Committee member.
- 2013 present Quality and Patient Safety Committee (member), Department of Otolaryngology-Head & Neck Surgery, University of Toronto.

PAPAIOANNOU, V

2016 - present	Vice-President (Audiology), College of Audiologists and Speech Language Pathologists of Ontario.
2016 - present	Executive Committee, College of Audiologists and Speech Language Pathologists of Ontario.
2016 - present	Chair, Audiology Practice Advisory Committee, College of Audiologists and Speech Language Pathologists of
	Ontario.
2015 - present	Speech Language Pathology Practice Advisory Committee, College of Audiologists and Speech Language
	Pathologists of Ontario.
2014 - present	Inquiries, Complaints, and Reports Committee, College of Audiologists and Speech Language Pathologists of
	Ontario.
2013 - present	Chair, Finance Committee, College of Audiologists and Speech Language Pathologists of Ontario.
2009 - present	Councillor, College of Audiologists and Speech Language Pathologists of Ontario
2010 - present	Speech-Language and Audiology Canada (SAC) Awards Committee.
2002 procent	Advisory Committee, Georgian Collage Communicative Disorders Assistant Program

2003 - present Advisory Committee, Georgian College Communicative Disorders Assistant Program.

PAPSIN, B

2011 - present	Member, Board of Examiners, Undergraduate Medical Program, Committee, Faculty of Medicine.
2010 - present	Member, Editorial Board, Journal of International Advanced Otology.
2010 - present	How I do It (HIDI) Committee, The Triologic Society.
2009 - present	Grant Reviewer, Canadian Institutes of Health Research, Team Grant: Vision, Hearing and Communication
	Disorders.
2007 - present	Member, Pediatric Otolaryngology Education Committee, American Academy of Otolaryngology - Head and Neck
	Surgery.
2006 - present	Chairman, Ad Hoc Publications Committee, American Society of Pediatric Otolaryngology.
2004 - present	Chapter Liaison, Section on Otolaryngology - Head and Neck Surgery, The American Academy of Pediatrics.
2004 - present	Chapter Liaison, American Academy of Pediatrics, Section on Otolaryngology - Head & Neck Surgery.
2003 - present	Hearing research, clinical - representative, Research Committee, Faculty of Medicine, Department of
	Otolaryngology - Head & Neck Surgery.

The Hospital for Sick Children

- 2006 present Otolaryngology Representative, Medical Staff Association.
- 2006 present Member, Surgical Research Committee.
- 2000 present Member, Credentials Committee.

Manuscript Reviewer

- 2010 present Journal of International Advanced Otology.
- 2006 present Journal of Otology and Neurotology.
- 2006 present Archives of Otolaryngology Head & Neck Surgery.
- 2004 present BMC Ear, Nose and Throat Disorders.
- 2004 present International Journal of Pediatric Otorhinolaryngology.
2003 - present Otolaryngology - Head and Neck Surgery.
2003 - present The Laryngoscope.
2000 - present University of Toronto Medical Journal.
1998 - present Journal of Otolaryngology - Head & Neck Surgery.

PARKER, D

2010 - present Peer Assessor, College of Audiologists and Speech-Language Pathologists of Ontario.

POTHIER, D

2011 - present	Member, Faculty of 1000 Research, Editorial Advisory Group.
2010 - present	Member, Committee for Global Health, Canadian Society of Otolaryngology - Head & Neck Surgery.
2009 - present	Council Member, Otorhinolaryngological Research Society (UK).
2009 - present	Associate Editor – Communications, Clinical Otolaryngology.
2008 - present	Continuing Medical Education - section editor, Clinical Otolaryngology.
2008 - present	Associate Editor, Clinical Otolaryngology (Editor in Chief: G. G. Browning)
2008 - present	Columnist, Software Reviews, ENT News.
2008 - present	Co-founder and Board Member, International Working Group on Endoscopic Ear Surgery.
2006 - present	Columnist, Internet Reviews, ENT News.
2006 - present	Advisor and Domain Expert, Connecting for Health (National Programme for Information Technology – NPfIT),
	National Health Service (UK).

Editorial Boards

- 2013 present Member, Advancements in Cellular and Molecular Otolaryngology.
- 2013 present Member, Journal of Surgery.
- 2012 present Member, Conference Papers in Medicine.
- 2008 present Member, ENT News.
- 2007 present Member, Wiley, Clinical Otolaryngology.
- 2006 present Member, Rila Institute of Health Sciences, The Otorhinolaryngologist.

Manuscript Reviewer

2013 - present Brain.

- 2013 present European Archives of Oto-Rhino-Laryngology and Head & Neck.
- 2013 present Medical Science Monitor.
- 2013 present The Annals of Otology, Rhinology, & Laryngology.
- 2011 present Journal of Clinical Medicine and Research.
- 2010 present African Health Sciences.
- 2009 present Canadian Medical Association Journal.
- 2005 present Annals of the Royal College of Surgeons of England.
- 2005 present Biomed Central Health Informatics.
- 2003 present British Medical Journal Clinical Evidence.

PROPST, E

2016 - present	Member, Information	Technology Committee, Arr	nerican Society of Pediatric	: Otolaryngology.
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- 2016 present Member, Periodic Fever Aphthous Stomatitis Pharyngitis, Cervical Adenitis (PFAPA) Clinical Pathway Development Committee, Faculty of Medicine, Childhood Arthritis and Rheumatology Research.
- 2016 present Member, Program Committee, Society for Ear Nose and Throat Advances in Children.
- 2015 present Member, Fellowship Evaluation Subcommittee (of Fellowship Committee), American Society of Pediatric Otolaryngology.
- 2013 2016 Member, QBP Expert Committee for Development of Tonsillectomy Guidelines, Ontario Government.
- 2012 present Team Leader. Development of intravenous infusion safety detection system. Hospital for Sick Children.

The Hospital for Sick Children

- 2015 Coordinator, 2nd International Pediatric Open Airway Surgery Course.
- 2015 Coordinator, 6th International Pediatric Endoscopic Course.
- 2014 present Member, Pierre Robin Sequence Working Group.
- 2014 present Supervisor, Decreasing Tracheotomy Stay Initiative.
- 2013 present Member, Multidisciplinary Tracheoesophageal Fistula (TEF) Clinic.
- 2013 present Medical Advisor, Parent Education Group, Hospital Improvement Taskforce. Ambulatory Design Committee.
- 2013 present Reviewer, Summer Studentship Grants.
- 2013 present Director, Residency Education Site Director, Faculty of Medicine, Dept of Otolaryngology Head & Neck Surgery.
- 2013 present Director, Undergraduate Education Site Director, Faculty of Medicine, Dept of Otolaryngology Head & Neck Surgery.
- 2012 present Director, Paediatric Otolaryngology Fellowship Director, Faculty of Medicine, Dept of Otolaryngology Head & Neck Surgery.
- 2012 present Director, Flexible Endoscopic Evaluation of Swallowing (FEES) Clinic.
- 2011 present Co-director, Disorders Relating to the Airway and Mouth in Sleep (DREAMS) Clinic.
- 2010 present Member, Stem Cell Working Group.

Manuscript Reviewer

- 2016 present Dentistry Journal.
- 2016 present Pediatric Pulmonology.
- 2015 present Hospital Pediatrics.
- 2015 present Pediatrics.
- 2014 present BMC Pediatrics.
- 2014 present The Laryngoscope.
- 2012 present Sensors.
- 2006 present International Journal of Pediatric Otorhinolaryngology.
- 2005 present Canadian Medical Association Journal.

RALHAN, R

2016 - present
 2016 - present
 2016 - present
 2017 - present
 2018 - present
 2019 - present
 2010 - present
 2011 - present</l

Editorial Assignments

- 2012 present Editor, Journal of Biomarkers.
- 2011 present Editorial Board Member, Frontiers in Cancer Genetics.
- 2009 present Editorial Board Member, The Open Biomarkers Journal.
- 2008 present Editorial Advisory Board Member, Head & Neck Oncology.
- 2008 present Editorial Board Member, Journal of Oral Pathology & Medicine.
- 2007 present Editorial Board Member, South Asia Advisory Board for L.I.R. Biochemistry.
- 2007 present Editorial Board Member, Carcinogenesis.
- 2007 present Editorial Board Member, Oral Oncology.
- 2006 present Editorial Board Member, International Journal of Cancer.

RUTKA, J

Ontario Medical Association

1998 - present Editor, Kommunicom Press, Otitis Diagnostica.

1992 - present Editor, Canadian Journal of Diagnosis.

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LEADERSHIP ACTIVITIES

SANDOR, N					
2013 - present 2012 - present	Member, Professional Development and Education Council, Sinai Health System, Toronto, Ontario. Member, Education Advisory Panel, Sinai Health System, Toronto, Ontario.				
SEABERG, R					
2015 - present 2014 - present	OR Utilization Committee – Surgeon Advisor. Humber River Hospital. Site Director, OTO-HNS clerkship rotation, Humber River Hospital.				
SOLOMON, P					
2009 - present 2008 - present 2002 - present 2014 - 2016	CPSO Practice Assessor, Otolaryngology-Head & Neck Surgery. Chief of Surgery, Mackenzie Health Hospital. Director, Canadian Academy of Facial Plastic and Reconstructive Surgery. OMA Section - Vice-Chair, OMA Otolaryngology-Head & Neck Surgery Section.				

VESCAN, A

North American Skull Base Society

2014 - 2016	Co-chair, Scientific Program Committee.
2013 - present	Member, Membership Credentialing Committee.

Canadian Society of Otolaryngology - Head & Neck Surgery

2013 - present	Member, Undergraduate Medical Education Committee.
2011 - present	Member, Rhinology Working Group.

Manuscript Reviewer

2012 - present	Head & Neck.
2009 - present	Allergy and Rhinology.
2008 - present	Journal of Otolaryngology - Head & Neck Surgery.
0000	

- 2008 present The Laryngoscope.
- 2007 present Skull Base.

WITTERICK, I

2015	External Examiner, Fellowship Examination, King Saud University, College of Medicine, Riyadh, Saudi Arabia.
2015	External Reviewer, External Review of the Division of Otolaryngology, Department of Surgery, University of
	Saskatchewan.
2015	Member Planning Committee, Current Concepts in Head and Neck Surgery, Department of Otolaryngology – Head
	& Neck Surgery.

- 2015 present Member, Editorial Board, International Forum of Allergy & Rhinology.
- 2014 2015 Member, Diagnostic Imaging Appropriateness (DI-APP) Project, CNS + Head and Neck Panel, Ministry of Health and Long-Term Care.
- 2014 present Member, Steering Committee, Third World Congress on Thyroid Cancer, July 27-30, 2017.
- 2010 present Member, Editorial Board, Skull Base.
- 2010 present Associate Editor, American Journal of Rhinology & Allergy.
- 2009 present Member, Editorial Board, Ear, Nose, and Throat Journal.
- 1997 present Associate Editor, Journal of Otolaryngology Head & Neck Surgery.

North American Skull Base Society

2016 - present	President-Elect
2015 - 2016	Vice President.

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- 2014 2015 Member, Program Committee, 25th Annual North American Skull Base Society Meeting, Tampa, FL, February
 - 2015.
- 2013 present Member, Executive Committee.
- 2013 present Member, Surgical Education Committee.
- 2013 2016 Member, Vendor Relations Committee.
- 2011 present Member, Board of Directors.

Canadian Society of Otolaryngology - Head & Neck Surgery

- 2015 present Chair, Canadian Otolaryngology Academic Chairs (COACH) Committee.
- 2012 present Member, Canadian Otolaryngology Academic Chairs (COACH) Committee.
- 2002 present Member, Head & Neck Oncology Group.
- 2002 present Member, Rhinology Group.

Royal College of Physicians and Surgeons of Canada

- 2016 present Member, International (residency) Program Review Accreditation Committee.
- 2010 2016 Member, Accreditation Committee.

Faculty of Medicine, University of Toronto

- 2016 present University Clinical Department Chair representative, Academic Health Sciences Network Medical Affairs Committee (TAHSNm).
- 2014 2016 Co-chair, Clinical Chairs Committee Working Group on Education Role Remuneration.
- 2012 present Member, Clinical Chairs Committee.
- 2012 present Member, All Chairs Committee.
- 2012 present Member, Executive Committee, Institute of Medical Science.
- 2012 present Member, Clinical Relations Committee.
- 2011 present Ex-officio Member, Faculty Council.
- 2011 present Member, Faculty Council Executive Committee.
- 2011 present Member, Striking Committee.
- 2011 present Chair, Education Committee.
- 2008 present Member, Steering Committee, Surgical Skills Centre.
- 2002 present Member, Executive Committee.

Sinai Health System

- 2012 present Otolaryngologist-in-Chief.
- 2012 present Member, Medical Advisory Council.
- 2008 present Member, Oncology Accreditation Committee.

Manuscript Reviewer

- 2014 present BMJ Case Reports. 2012 - present Journal of Surgical Oncology. 2011 - present Annals of Otology, Rhinology & Laryngology. 2011 - present Cancer. 2011 - present International Forum of Allergy & Rhinology. 2011 - present International Journal of Surgical Oncology. 2010 - present American Journal of Rhinology & Allergy. 2010 - present Skull Base. 2008 - present Head & Neck. 2005 - present Otolaryngology-Head & Neck Surgery. 2003 - present The Laryngoscope.
- 1993 present Journal of Otolaryngology-HNS.

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LEADERSHIP ACTIVITIES

WONG, E									
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- 2015 presentCoordinator for Continuing Education Units, World Congress of Audiology.2001 presentMember, Speech-Language & Audiology Canada.
- 2001 present Member, Canadian Academy of Audiology.

ZADEH, G

2016 - present	Member at Large, North American Skull Base Society
2015 - present	Editorial Board, Cancer - Interdisciplinary International Journal of the American Cancer Society.
2015 - present	Scientific Chair and Founder, Society for Neuro-oncology (SNO) Consortium on Meningioma.
2015 - present	Member of the Scientific Organizing Committee, North American Skull Base Society.
2015 - present	Scientific Chair, AANS, Tumor Section, 2016.
2015 - present	Executive Member, International Gamma Knife Research Foundation (IGKRF).
2015 - present	Member of the Examination Committee, Royal College of Physicians and Surgeons of Canada.
2015 - present	Elected Secretary/Treasurer, Society for Neuro-oncology (SNO).
2015 - present	Scientific Committee Member, TFRI 2016 ASM Scientific Organizing Committee.
2015 - present	Scientific Committee Member, CNSF, Canadian Neuroscience Federation 2016.
2015 - present	Director and Founder, Society for Neuro-oncology (SNO), Barrick-Wilkins SNO International Outreach Scholarship.
2015 - present	Chair of the SNO International Outreach Committee, Society for Neuro-oncology (SNO).
2015 - 2017	Chair, Awards Committee, Society of Neuro-oncology (SNO).
2015 - 2016	Scientific Meeting Chair, Society for Neuro-oncology (SNO).
2014 - present	Director, Academic Affairs, Division of Neurosurgery. University of Toronto.
2014 - present	Member, Department of Surgery Research Committee. University of Toronto.
2014 - present	Co-director, City Wide Brain Tumor Bank, University of Toronto.
2013 - present	Editorial Board, Neuro-Oncology.
2013 - 2017	Chair of World Federation of Neuro-logical Surgeons Neuro-oncology Committee.

ZIRKLE, M

St. Michael's Hospital

- 2015 present Member, Faculty Development Day Planning Group.
- 2015 present Member, Disadvantaged Curriculum Working Group.
- 2015 present Member, Collaborative Programming Working Group.
- 2010 present Committee Member, Member, Education Council.
- 2010 present Committee Member, Interprofessional Education.
- 2010 present Co-chair, Student Experience Committee.

Undergraduate Medical Education

2013 - present Member, Working Group for Health Science Research Course, Faculty of Medicine, Department of Otolaryngology -Head & Neck Surgery, Canada.

University of Toronto

- 2015 present Member, Taskforce on Compensation for Undergraduate Teaching.
- 2013 present Member, Longitudinal Integrated Clerkship Working Group.
- 2010 present Member, Undergraduate Medical Education, Executive Committee.
- 2010 present Member, Undergraduate Medical Education, Curriculum Committee.
- 2010 present Member, Undergraduate Medical Education, Academy Director Committee.
- 2010 present Member, Undergraduate Medical Education, Clerkship Committee.
- 2010 present Member, Undergraduate Medical Education, PreClerkship Committee.

Manuscript Reviewer

- 2011 presentMedical Education.2007 presentThe Laryngoscope.2006 presentOtelaryngology Lload and Neel
- 2006 present Otolaryngology-Head and Neck Surgery.

Research Grants and Contracts

ANDERSON, J	
2015 - present	Co-investigator. Validation of a Novel Microlaryngoscopy Simulator for Teaching and Assessment. AFP (Alternate Funding Plan) St. Michael's Hospital, AFP Innovation Funds. Collaborators: Theresa Holler. [Grants]. Total Amount: \$10,950 CAD.
BRANDT, M	
2012-2017	Brandt MG, Doyle PC. Western University – Western Graduate Research Scholarship. Development and validation of a novel scar assessment scale. \$28,500.
CAMPISI, P	
2012 - 2015	Co-investigator. Randomized Controlled Trial of Voice Therapy on Children with Vocal Nodules. NIH/NIDCD. PI: C. Hartnick, MD. Collaborator(s): J. Kerschner, MD, P. Campisi, MD, R. Sataloff, MD. \$287,764 CAD. [Grants].
CHEN, J	
2016	Med-El grant for the creation of a computer based music training program-HeadTUNES-phase II, \$80,000.
2016	Oticon Clinical Trial for Health Canada, \$50,000 in addition to implant devices.
2008 - present	Principle Investigator. Cost utility analysis of unilatreal and bilateral cochlear implantation. Sunnybrook Health Sciences Centre, Ontario, Canada. Collaborator(s): Nicole Mittmann, PhD (HOPE research, SRI).
CHEPEHA, D	
2011 - 2016	Co-investigator on sub-award. Integrative Epigenomic/Genomic Profiling and Biomarker Discovery in HPV+ and HPV- Head and Neck Cancer. National Institutes of Health (NIH) (USA). NCI. R01 CA158286. PI: Rozek/Sartor. \$307,268 USD. [Grants].
2015 - 2016	Principal Investigator. Biological marker for matted nodes. University of Toronto. Harry Barberian Research Fund. \$5,000 CAD. [Grants].
2016 - 2017	Principal Investigator. Are Markers of Epithelial Mesenchymal Transition Related to Pattern of Invasion in Patients with Oral Cavity Squamous Cell Carcinoma? Harry Barberian Research Fund. \$9,800 CAD.
CHIODO, A	
2013-present	TEGH Educational Scholarship Award and Research Grant. Toronto East General Hospital, Wightman-Berris Academy, University of Toronto, Faculty of Medicine. Toronto, Ontario, Canada
CUSHING, S	
2016 - 2017	Collaborator. Efficacy of Patient Education Videos in Parents of Children with Aural Atresia. Harry Barberian Research Fund. PI: Josie Xu. Collaborator(s): Cushing, Sharon, Papsin, Blake. \$5,000 CAD. [Grants].
2016 - 2017	Co-principal Investigator. Screening for Vestibular Dysfunction in Children Receiving Ototoxic Medications. Speech-Language & Audiology Canada. PI: Papaioannou V. Collaborator(s): Cushing SL, Gordon KA. \$2,500 CAD. [Grants].

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2015 - 2016	Collaborator. Electrically Evoked Vestibular Potentials in Children with Cochlear Implants. Harry Barberian Research Fund. PI: William Parkes. Collaborator(s): Cushing, Sharon, Gordon, Karen, Papsin, Blake. \$5,000 CAD. [Grants].	
2015 - 2020	Collaborator. Overt responses during covert orienting; Novel biomarkers for the oculomotor system in hea and disease. Canadian Institutes of Health Research. PI: Corneil, Brian. Collaborator(s): Cushing, Sharon. \$739,381 CAD. [Grants].	
2012 - 2017	Collaborator. Behavioural and neurophysiological effects of Transcranial Magnetic Stimulation in the Primat Canadian Institutes of Health Research. PI: Corneil, Brian. Collaborator(s): Cushing, Sharon. \$754,470 CAD [Grants].	
DABDOUB, A		
2016 - 2017	Co-principal Investigator. Growing supporting cells in culture: Towards high-throughput screens. Hearing Health Foundation (USA). Hearing Restoration Project. \$123,000 USD. [Grants].	
2016 - 2017	Principal Investigator. Regeneration of auditory neurons for the treatment of hearing loss. Canada First Research Excellence Fund. Medicine by Design: New Ideas Grant. \$75,000 CAD. [Grants].	
2013 - 2018	Principal Investigator. Development of sensory and neural cells in the mammalian cochlea. Canada Foundation for Innovation (CFI). Leaders Opportunity Fund. \$635,305 CAD. [Grants].	
de ALMEIDA, J		
2016 - 2017	Principal Investigator. Circulating tumour DNA trends following post-operative wound infection after oral cavity resection and neck dissection for oral cavity SCC. Harry Barberian Research Fund. Collaborator(s): Ma, Andrew, Irish, Jonathan, Lam, David, Goldstein, David. \$5,000 CAD. [Grants].	
2015 - 2016	Principal Investigator. Radiolucent Mouth Retractor: Creating an Image Guidance System for Transoral Robotic Surgery. Harry Barberian Research Fund. Collaborator(s): Ma, Andrew, Irish, Jonathan, Lam, David, Goldstein, David. \$5,000 CAD. [Grants].	
FALLS, C		
2016 - present	Recipient and co-investigator, Subjective Visual Vertical Test. Harry Barberian Research Fund, \$5,000.	
GOLDSTEIN, D		
2015 - 2018	Co-principal Investigator. A novel active surveillance approach to primary management of low-risk papillary thyroid cancer. CCSRI Innovation Grant. PI: Sawka, Anna and Goldstein, David. \$92,560 CAD.	
2015 - 2017	Co-principal Investigator. A Novel Active Surveillance Approach to the Primary Management of Low Risk Papillary Thyroid Cancer. AHSC AFP Innovation Fund. PI: David Goldstein and Anna Sawka. Collaborator(s): Dr. John de Almeida, Dr. Ian Witterick, Dr. Shereen Ezzat, Dr. Lorne Rotstein, Dr. Jonathan Irish, Dr. Ralph Gilbert, Dr. Patrick Gullane, Dr. Douglas Chepeha, Dr. Dale Brown, Dr. Karen Devon, Dr. Jeremy Freeman, Dr. Al Vescan and Dr. Eric Monteiro. \$193,145.88 CAD. [Grants].	
2015 - 2016	Co-investigator. CEASE: A novel electronic patient directed knowledge translation tool to improve smoking cessation in cancer patients. Cancer Care Ontario & Ontario Institute for Cancer Research (CCO/OICR). CCO/OICR Knowledge Translation Research Network. PI: Dr. Jennifer Jones, Dr. Meredith Giuliani. Collaborator(s): Dr. Peter Selby, Dr. Geoffrey Liu, Dr. David Goldstein, Nazek Abdelmutti and Dr. Lawson Eng. \$86,181.50 CAD. [Grants].	

RESEARCH GRANTS AND CONTRACTS

GORDON, K				
2013 - 2018	Primary Investigator. Restoring binaural hearing to children who are deaf. Co-investigator: Papsin, B.C. Canadian Institutes of Health Research Operating Grant. \$623,602 (ranked 1st in competition).			
HARRISON, R				
2010 - 2015	Team Leader. Development and ageing of binaural hearing. Primary Investigator: Harrison, R.V. Co- investigators: Gordon, K.A., Wang, L-W., Lin, V., Friesen, L. Canadian Institutes of Health Research Team Grant, \$1,216,125.			
2015	Principal investigator. The Changing Balance of Neural Inhibition vs. Excitation During Auditory System Development. Canadian Institutes of Health Research Operating Grant: \$117,054/annum.			
HIGGINS, K				
2016	A randomized Phase 2 trial of neoadjuvant and adjuvant therapy with the IRX-2 regimen in patients with newly diagnosed stage 3 or 4a squamous cell carcinoma of the oral cavity- INSPIRE trial. IRX therapeutics. \$85,000.			
2016 - 2018	Assessing the feasibility, acceptability, and Impact of Implementing Cancer Care Ontario's Psychosocial Oncology & Palliative Care Pathway in the care of patients with Head and Neck Cancer. AHSC AFP Innovatio Fund. PI: Janet Ellis MB BChir, MD, FRCPC. Collaborator(s): Kevin M. Higgins MSc MD FRCSC FACS. \$99,00			
2014 - 2015	Co-principal Investigator. Defining a personalized hypoxic radiation target through correlation of functional F18-FAZA PET imaging to pimonidazole-stained 3D whole-mounted histological specimen. UT-DRO. PI: Poon, lan Dr. Collaborator(s): Dr. Kevin Higgins, Dr. Martin Yaffe, Dr. Aaron Ward, Dr. Danny Enepekides, Dr. Ilan Weinreb, Dr. Katherine Zukotynski. \$50,000 CAD. [Grants].			
2014 - 2018	Co-principal Investigator. Tissue engineering of auricular cartilage implants for external ear reconstruction. Canadian Institutes of Health Research. PI: Dr. S. Waldman. Collaborator(s): Dr. Cushing, Dr. M. Kunz, Prof. S. Pang and Dr. A. Winterborn. \$460,000 CAD.			
2013 - 2015	Co-principal Investigator. The application of MR-guided HIFU for regionally recurrent unresectable head and neck carcinoma. FUS Foundation. PI: Dr. Justin Lee. Collaborator(s): Dr. Danny Enepekides and Dr. Kevin M. Higgins. \$75,000 CAD. [Grants].			
2012 - 2018	Principal Site Investigator. Efficacy of optically guided surgery in the management of early stage oral cancer (COOLS trial). Terry Fox Research Institute (TFRI)/Canadian Cancer Society Research Institute. \$25,000.			
HUBBARD, B				
2016	Principal Investigator. Vestibular Simulation. Harry Barberian Research Fund. \$5,000.			
IRISH, J				
2016 - present	Clinical Trial Development with Nanovista: An Interventional Imaging Agent Platform to Improve the Precision of Personalized Cancer Therapies. Princess Margaret Cancer Foundation. Innovation Accelerator Fund. PI: Zheng, Jinzi. Collaborator(s): J Irish, DA Jaffray, C Allen. \$250,000 CAD. [Grants].			
2015 - present	Porphysome project. Princess Margaret Cancer Foundation. Innovation Accelerator Fund. PI: Zheng, Gang. \$250,000 CAD. [Grants].			
2016 - 2019	Co-principal Investigator. Analysis of Circulating Tumor Cell Heterogeneity Using a Multi-Marker Microscale Capture Approach as a tool in the Management and Treatment of Cancer Cancer Research. Canadian Institutes of Health Research and Natural Sciences and Engineering Research Council of Canada (NSERC).			

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Collaborative Health Research Projects. PI: Kelly, Shana and Irish, Jonathan. Collaborator(s): A Allan, T Cil, A Joshua, E Sargent. \$689,700 CAD.

- 2015 2016 Co-investigator. Impact of distinct HPV subtypes on survival in oropharyngeal cancer. Princess Margaret Cancer Foundation. 2015 Invest in Research Program. PI: Bratman, Scott. Collaborator(s): Fei-Fei Liu, Jeff Bruce, Wei Shi, Wei Xu, Ilan Weinreb, Brian O'Sullivan, John Waldron, Shao-Hui Huang, Trevor Pugh. \$100,000 CAD. [Grants].
- 2015 2017 Co-principal Investigator. Personalized Porphysomes. Collaborative Translational Grant. PI: Irish, Jonathan and Zheng, Gang. \$300,000 CAD. [Grants].
- 2015 2018 Co-investigator. Improving Target Definition in Radiation Therapy Planning by the Spatial Registration of Optical Endoscopy Imaging with Volumetric Imaging. Canadian Institutes of Health Research. PI: Weersink, Robert. Collaborator(s): Dr. John Cho, Dr. David Jaffray. \$93,527 CAD. [Grants].
- 2014 2019 Co-investigator. Science Operating Room Extension (ScORE). Canada Foundation for Innovation. Leaders Opportunity Fund—Funding for research infrastructure. PI: Jaffray, David. Collaborator(s): Dr. Gang Zheng. \$1,997,099 CAD. [Grants].
- 2015 present Principal Investigator. Nitric Oxide Synthase Expression in patients undergoing Endoscopic Sinus Surgery for Chronic Rhinosinusitis with Nasal Polyps. Harry Barberian Research Fund. Collaborator(s): Yip J, Marsden P. \$5,000.
- 2014 present Principal Investigator. Development of the Nasal Physiology Laboratory at St. Michael's Hospital. Harry Barberian Research Fund. \$3,500. [Grants].
- 2014 present Principal Investigator. Prospective Pilot Study of Floseal for the treatment of Anterior Epistaxis in patients with Hereditary Hemorrhagic Telangiectasia (HHT). Baxter Corporation. Collaborator(s): Kilty, S. \$32,000. [Industrial Grants].
- 2013 present Principal Investigator. "Simulation and a training model for developing basic endoscopic sinus surgery skills in the novice resident trainee". St. Michael's Hospital Innovation Funds Grant. Collaborator(s): Dr. Gordon Tsang, Resident. \$9,875. [Grants].
- 2011 present Principal Investigator. "The Effect of Endoscopic Sinus Surgery on Nasal Nitric Oxide Levels in Patients with Chronic Rhinosinusitis". Physician Services Incorporated (PSI) Grant. Collaborator(s): Aman Grewal (Resident). \$10,650. [Grants].
- LIN, V

 2016
 Ontario Ministry of Health Academic Health Sciences Centre AFP Innovation Funding Impact of the Sunnybrook Home Guided Hearing Rehabilitation Tool on Speech Recognition Following Cochlear Implantation. \$96,000.
- 2010-2015 Co-principal Investigator. CIHR Team Grant on Ageing & Hearing and Vision Sciences. \$1,250,000.
- 2016 2017 Co-investigator. Safety of Intratympanic Fludrocortisone Injections in a Mouse Model. Department of Otolaryngology Head & Neck Surgery. Harry Barberian Research Fund. PI: Kurien, George. \$9,000 CAD. [Grants].

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LEE, J

RESEARCH GRANTS AND **CONTRACTS**

2016 - 2017	Co-investigator. Comparing the Effect of Autologous Platelet Products and Epidisc on Tympanic Membrane Perforation Healing in Office-Based Tympanoplasties. Department of Otolaryngology - Head & Neck Surgery. Harry Barberian Research Fund. PI: Bensoussan, Yael. \$6,550 CAD. [Grants].	
2015 - 2016	Co-investigator. Hair Cell Regeneration in the Vestibular System using the Wnt and Notch Pathways. Department of Otolaryngology - Head & Neck Surgery. Harry Barberian Research Fund. PI: Geng, Ruishuang. 5,000 CAD. [Grants].	
2015 - 2018	Principal Investigator. Development of the Vestibular Evoked Myogenic Potential Response in the Guinea Pig Med-EL Austria. \$48,000 CAD. [Grants].	
2015 - 2018	Principal Investigator. Extended use of Pre-Operative Steroid Administration in the Guinea Pig Model. Med-E Austria. \$367,900 CAD. [Grants].	
2014 - 2015	Principal Investigator. Characterization of the Effect of Cochlear Implantation on Vestibular Function in the Elderly Population and Determination of the Potential Protective Effects of Intraoperative Steroid Treatment. Department of Otolaryngology - Head & Neck Surgery. Harry Barberian Research Fund. \$3,800 CAD. [Grant	
2014 - 2015	Co-investigator. Effect of Glucocorticoids on Vestibular System. Department of Otolaryngology - Head & Neck Surgery. Harry Barberian Research Fund. PI: le Nobel, Gavin. \$5,000 CAD. [Grants].	
LIU, FF		
2015 - 2017	Principal Investigator. Epigenetic reprogramming of radiation fibrosis using adipose-derived stromal cells. Canadian Cancer Society Research Institute (CCSRI). Collaborator(s): Ailles L, De Carvalho D, Haibe-Kains B. \$200,000 CAD. [Grants].	
2013 - 2018	Co-investigator. Novel ultrasound-activated microbubble enhancement of radiation response: Optimization of response. Canadian Institutes of Health Research. Collaborator(s): Czarnota GJ, Kolios MC (Co-PIs). \$706,608 CAD. [Grants].	
2013 - 2016	Principal Investigator. Discovery and characterization of UROD inhibitors for cancer therapy. Canadian Institutes of Health Research. Collaborator(s): Schimmer AD, Yip KW, Ito E. \$457,588 CAD. [Grants].	
2011 - 2015	Co-principal Investigator. Micro-RNA and mRNA expression profiling to predict outcome and characterize the cervix cancer microenvironment. Ontario Institute for Cancer Research. Collaborator(s): Fyles A (Co-PI), Wouters B, Clarke B, Boutros P, Pintilie M. \$634,407 CAD. [Grants].	
MARTINO, R		
2016 - 2020	Co-investigator. Swallowing substudy to 'A randomized phase II trial for patients with p16 positive non- smoking associated, locoregionally advanced oropharyngeal cancer'. National Cancer Institute (USA). National Clinical Trials Network. PI: S. Yom. Co-investigators: M. Gillison, J. Caudell, M. Gibson, J. Waldron, P. Xia, C. Chung, M. Yao , C. Kong , R. Subramaniam , R. Jordan , Q. Zhang , M. Truong , L. Walters-Page , J. Rueter, V. Patel, J. Lewin. \$284,810 USD.	
2016 - 2018	Co-investigator. Impact of dysphagia in patients with acute ischemic stroke: Risk factors, interventions, process measures, and outcomes. Physicians Services Incorporated Foundation (The) (PSI). Resident Research Grant. PI: R. Joundi. Co-investigators: M. Kapral (Sup), G. Saposnik. \$20,000 CAD.	
2016	Co-investigator. Swallowing substudy to 'A phase II randomized trail examining quality of life following treatment for early-stage squamous cell carcinoma of the oropharynx: radiotherapy vs. trans-oral robotic	

surgery (ORATOR)'. Canadian Cancer Society Research Institute (CCSRI). Quality of Life Grant. PI: A. Nichols (Co-Pl), D. Palma (Co-Pl). Co-investigators: E. Winguist, P. Doyle, J. Theurer. \$4,500 CAD.

- 2015 2017 Co-principal Investigator. Expiratory muscle strength training: Feasibility of an established training protocol in moderate-to-severe Parkinson's disease, and the effects on swallowing. University Health Network. Collaborative Academic Practice Research Internal Grant. PI: E. Yeates. Co-investigators: L. Pothier, A. McGauley. \$4,744 CAD.
- 2014 2015 Co-investigator. StrokEngine - Ongoing updates and development of website. Canadian Partnership for Stroke Recovery. PI: S. McEwen. Co-Investigators: N. Korner-Bitensky, R. Teasell, C. Richards, S. Page, J. Desrosiers, M. Bayley, D. Bourbonnais, N. Salbach, A. Lamontagne, L. Fellows, F. Kaizer, A. Thomas, L. Kloda, C. Dumoulin, A. Menon, M. Levin, J. Fung, N. Mayo, A. Kagan, J. Eng, L. Poissant, J. Higgins, B. Vachon, J. Cameron. \$45,000 CAD.
- 2014 2016 Co-investigator. Development and pilot evaluation of a rehabilitation consult for survivors of head and neck cancer. Canadian Cancer Society Research Institute (CCSRI). Innovation Grant. PI: S. McEwen. Co-Investigators: J. Ringash, A. Davis, J. Jones, R. Engeland, A.M. Rodriguez. \$191,930 CAD.
- 2014 2015 Co-investigator. Aide ponctuel pour le site internet www.strokengine.ca. Vice-Rectorat à la Recherche, à la création et à l'innovation (VRRCI) de l'UdeM. PI: S. McEwen. Co-investigators: N. Korner-Bitensky, R. Teasell, C. Richards, S. Page, J. Desrosiers, M. Bayley, D. Bourbonnais, N. Salbach, A. Lamontagne, L. Fellows, F. Kaizer, A. Thomas, L. Kloda, C. Dumoulin, A. Menon, M. Levin, J. Fung, N. Mayo, A. Kagan, J. Eng, L. Poissant, J. Higgins, B. Vachon, J. Cameron. \$15,000 CAD.
- 2013 2018 Principal Investigator. Canada Research Chair in Swallowing Disorders. Canada Research Chairs. \$500,000 CAD.
- 2013 2015 Co-principal Investigator. Changes in cardiac function during a swallow exercise program in patients with coronary artery disease. University Health Network. Allied Health Research Fund. PI: J. Barker. Coinvestigators: T. Reichardt. \$1,146 CAD.
- 2013 2015 Co-principal Investigator. The Facebook laryngectomy support groups study. University Health Network. Allied Health Research Fund. PI: L. Pothier. Co-investigators: L. Cuglietta. \$763 CAD.
- 2011 2016 Principal Investigator. Screening for dysphagia in patients following prolonged intubation: Validation of the Toronto Bedside Swallowing Screening Test (TOR-BSST©). Canadian Institutes of Health Research. 110957. Co-investigators: T. Yau, J. Granton, J. Ivanov. \$212,077 CAD.

MONTEIRO, E 2016

- Harry Barberian Research Fund. Creation of an educational time out in Otolaryngology-Head & Neck Surgery. Davies J, Xu J, Manojlovic Kolarski M, Rai S, Laliberte F, Monteiro E. \$3,240.
- 2016 Harry Barberian Research Fund. Assessment of emergency referrals to Otolaryngology-Head & Neck Surgery at tertiary centres in the GTA. Chen S, Chan Y, Monteiro E. \$2,000.
- 2016 Harry Barberian Research Fund. Improving the Perioperative Experience of Otolaryngology Patients using a web-based and smartphone application. Bensoussan Y, Vescan A, Witterick I, Monteiro E. \$10,000.
- 2015 Harry Barberian Research Fund. Improving the Perioperative Experience of Thyroidectomy Patients using a web-based and smartphone application. Bensoussan Y, Vescan A, Witterick I, Monteiro E. \$5,000.

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RESEARCH GRANTS AND CONTRACTS

2015	University of Toronto Endoscopic Neurosurgery competition. Establishing the "learning Curve" on a virtual reality endoscopic sinus surgery simulator. Chen S, Yao C, Lee J, Witterick I, Monteiro E, Vescan A. \$5,000.		
PAPSIN, B			
2016 - 2017	Collaborator. Efficacy of Patient Education Videos in Parents of Children with Aural Atresia. Harry Barberian Research Fund. PI: Josie Xu. Collaborators: Cushing, Sharon, Papsin, Blake. \$5,000 CAD. [Grants].		
2013 - 2018	Restoring binaural hearing to children who are deaf. Canadian Institutes of Health Research. PI: Gordon, KA. Collaborator(s): Papsin, BC. \$623,602 CAD. [Grants].		
PROPST, E			
2015	Principal Investigator. Olympus Corporation of the Americas Grant 15G2235. Olympus Corporation of the Americas. \$2,500 CAD. [Industrial Grants].		
2014 - present	Principal Investigator. Tracheal transplantation in a porcine model (tracheal stenosis - tissue engineering). Harry Barberian Research Fund. \$5,000 CAD. [Grants].		
2014 - present	Principal Investigator. Development and testing of a realistic model for teaching tracheotomy to trainees. Hospital for Sick Children Perioperative Services. Perioperative Services Innovation Grant. Collaborator(s): Forte, Vito. \$9,500 CAD. [Grants].		
2012 - present	Principal Investigator. Development of a novel sensor to detect intravenous extravasation and prevent injury. Hospital for Sick Children Perioperative Services. Perioperative Services Innovation Grant. Collaborator(s): Carillo B, Forte V. \$10,000 CAD. [Grants].		
2012 - 2015	Principal Investigator. Analysis of laryngotracheal vasculature after injury and airway reconstruction using corrosion casting in an animal model. Hospital for Sick Children Perioperative Services. Perioperative Services Innovation Grant. Collaborator(s): Forte V; Campisi P; Harrison RV; Kus L (Resident). \$10,000 CAD. [Grants].		
ZADEH, G			
2015 - present	Co-principal Investigator. Canadian Institutes of Health Research High Fatality Grant Discovery of molecular targets for treatment of clinically malignant meningioma \$100,000 CAD. [Grants].		
2015 - present	Principal Investigator. Investigating the Therapeutic benefits of Azoles in Preclinical Models of Pediatric Gliomas. B.r.a.i.n.child. \$24,680 CAD. [Grants].		
2015 - present	Co-principal Investigator. Clinical investigation of Frameless, Adaptive, Image-guided Gamma Knife Radiosurgery. Canadian Institute of Health Research. \$510,000 CAD. [Grants].		
2015 - present	Principal Investigator. Investigation of biomarkers of response to treatment with marizomib in GBM patients. Mathematics of Information Technology and Complex Systems (MITACS). Mitacs-Accelerate Graduate Research Internship Program. IT06509. \$70,000 CAD. [Grants].		
2015 - present	Principal Investigator. To identify potential biomarkers of response to Marizomib treatment in GBM patients. Triphase. \$240,000 CAD. [Grants].		
ZIRKLE, M			
2015-16	Investigating Operational Drivers of Resident Fatigue. AFP Grant. Julie Maggi, Najma Ahmed, Susan Edwards, Molly Zirkle. \$21,730 CAD		



RESIDENTS & Fellows

Residents & Fellows

PGY 1

Joel Davies Frédérick Laliberté Mirko Manojlovic Kolarski Sunita Rai Josie Xu

PGY 2

Yael Bensoussan Peter Dixon Weibo Hao Yelda Jozaghi Patrick Scheffler

PGY 3

Michael Awad Stephen Chen Andrew Ma Jason Xu Christopher Yao Jonathan Yip

PGY 4

Michael Au Gian-Marco Busato Gavin le Nobel Gordon Tsang Jenny Wang Xiao Zhao

PGY 5

Antoine (Tony) Eskander Sarah Hugh Kayvan Nateghifard Heather Osborn Modupe (Dupe) Oyewumi Edward Park Nikolaus Wolter



Department of Otolaryngology Head & Neck Surgery, Residents 2015-2016

[Left to Right] Front Row: Sarah Hugh-PGY5, Modupe Oyewumi-PGY5, Sunita Rai-PGY1, Dr. Paolo Campisi, Visiting Professor Dr. Mark Wax, Dr. Ian Witterick, Yelda Jozaghi-PGY2, Yael Bensoussan-PGY2, Josie Xu-PGY1 Back Row: Frederick Laliberte-PGY1, Michael Au-PGY4, Nikolaus Wolter-PGY5, Gordon Tsang-PGY4, Xiao Zhao-PGY4, Peter Dixon-PGY2, Antoine Eskander-PGY5, Jason Xu-PGY3, Gian-Marco Busato-PGY4, Gavin le Nobel-PGY4, Patrick Scheffler-PGY2, Stephen Chen-PGY3, Andrew Ma-PGY3, Weibo Hao-PGY2, Edward Park-PGY5. Missing Residents: Michael Awad-PGY3, Joel Davies-PGY1, Mirko Manojlovic Kolarski-PGY1, Kayvan Nateghifard-PGY5, Heather Osborn-PGY5, Jennifer Wang-PGY4, Christopher Yao-PGY3, Jonathan Yip-PGY3.

RESIDENTS AND **FELLOWS**

Fellowship	Fellow	Country of Training	Mentor(s)
Head and Neck Oncology	Jonathan Bernstein Jeffrey Blumberg Mohammed Bu Abbas Gilad Horowitz Caitlin McMullen Matthew Mifsud Nidal Muhanna	United Kingdom USA Kuwait Israel USA USA Israel	University Health Network: Drs. Dale Brown, Douglas Chepeha, Jonathan Irish, Ralph Gilbert, David Goldstein, Patrick Gullane Sinai Health System: Dr. Jeremy Freeman Sunnybrook HSC: Drs. Danny Enepekides, Kevin Higgins
Facial Plastic & Reconstructive Surgery	Yazeed Alghonaim Andrew Courson Jeffrey Jumaily	Saudi Arabia USA Canada	Drs. Peter Adamson, Kris Conrad, David Ellis
Pediatric Otolaryngology	William Parkes	USA	Hospital for Sick Children: Drs. Paolo Campisi, Sharon Cushing, Adrian James, Blake Papsin, Evan Propst
Rhinology, Skull Base and Head & Neck Oncology	Christopher Chin Elhamy Samak (Research)	Canada Egypt	Sinai Health System: Drs. Ian Witterick, Allan Vescan
Otology - Skull Base Surgery	Euna Hwang George Kurien	Canada Canada	Sunnybrook HSC: Drs. Joseph Chen, Vincent Lin, Julian Nedzelski
Medical & Surgical Otology/Neurotology	Ophir Ilan Thomas Mawby Jihad Nassar	Israel United Kingdom Lebanon	University Health Network: Drs. John Rutka, David Pothier Markham Stouffville Hospital: Dr. Jerry Halik
Laryngology	Dulani Mendis	United Kingdom	St. Michael's Hospital: Dr. Jennifer Anderson



Departmental Awards Program

Departmental Awards Program

These awards are presented on Percy Ireland Day or the evening before at the Percy Ireland dinner.



Dr. Antoine (Tony) Eskander (PGY5) received the Freda Noyek Otolaryngology Merit Award - In recognition of special commitment to patient care and academic achievement.

(Dr. Tony Eskander (left) with Dr. Ian Witterick)



Dr. Joel Davies (PGY1) received the Judy Chauvin Otolaryngology Resident Award – In recognition of an enthusiastic interest in the initiation of a serious otolaryngology-related research project.

Dr. Jeffrey Jumaily received the Kris Conrad Merit Award in Facial Plastic Surgery - For demonstrating outstanding skills in facial plastic surgery.



Dr. John Lee received the Resident Advocacy Award – In recognition of dedication to improving the residency program through support and mentorship.

(Dr. John Lee (left) with Dr. Michael Au-Chief Resident)

DEPARTMENTAL AWARDS PROGRAM



Dr. Jonathan Yip (PGY3) received The Shiley E.O. Pelausa Award - For demonstration of excellent clinical work by a PGY3.



Dr. John de Almeida received the Department of Otolaryngology-Head & Neck Surgery Excellence in Teaching Award - Awarded to a faculty member who demonstrates excellence in teaching and education with contributions made at the level of undergraduate, postgraduate and/or continuing education.

(Dr. John de Almeida (left) with Dr. Paolo Campisi)



Dr. Nikolaus Wolter received the Resident Teacher of the Year Award - Awarded to a PGY5 resident who is judged to have been an outstanding teacher to other residents and medical students during their residency.

(Dr. Sal Spadafora, Vice Dean Post MD Program *(left)* with Dr. Nik Wolter)



Dr. Christopher Chin received the Fellow Teacher of the Year Award - Awarded to a fellow who is judged to have been an outstanding teacher to residents and medical students during their fellowship.

(Dr. Glen Bandiera, Associate Dean Post MD Program *(left)* with Dr. Christopher Chin)

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Dr. Molly Zirkle received The Alma Smitheringale Excellence in Undergraduate Teaching Award - Awarded to a faculty member, resident or fellow for outstanding undergraduate teaching or curriculum development.

(L to R: Drs. Alma Smitheringale, Molly Zirkle and Paolo Campisi)



Dr. Brian Tatham received the Distinguished Alumnus Award - Awarded to an alumnus in recognition of having demonstrated an exceptional commitment and dedication to the practice and teaching of Otolaryngology-Head & Neck Surgery and whose professional ethical standards have been of the highest order.

(Dr. Yvonne Chan (left) with Dr. Brian Tatham)



Ms. Fatima Jessa (left) and Anshula Samarajeewa received the Dr. Raymond H. W. Ng Graduate Award - Awarded to a graduate student enrolled in a full-time MSc program in the Faculty of Medicine.



Dr. Xiao Zhao received the Dr. Raymond H. W. Ng PhD Award - Awarded to a graduate student enrolled in a full-time PhD program in the Faculty of Medicine.

(Dr. Raymond Ng *(left)* with Dr. Xiao Zhao)

2015-16 Harry Barberian Scholarship Awards

Yael Bensoussan (PGY2)

"Compare the Effect of Autologous Platelet Products and Epidisc on Tympanic Membrane Perforation Healing in Office-Based Tympanoplasties" **and** "Develop a Web Platform and Application for Smartphone to Optimize the Quality of Care for Surgical Patients for the 10 Most Common Otolaryngology Surgeries"

Paolo Campisi

"Medical Simulation and Independent Learning – Piloting OtoSim 3.0"

Stephen Chen (PGY3)

"Assessment of Emergency Referrals to Oto-HNS at Tertiary Centres in the GTA"

Michael Daly

"Enable Translation of Promising Imaging Technology for Blood Vessel Imaging into the Operating Room"

John de Almeida

"Circulating Tumour DNA Trends Following Post-Operative Wound Infection After Oral Cavity Resection and Neck Dissection for Oral Cavity SCC"

Carolyn Falls

"Subjective Visual Vertical Test"

Guodong Fu

"Identification of Novel Micrornas as Molecular Drivers in Malignant Transformation in Oral Dysplasia"

Weibo Hao (PGY2) & Jonathan Yip (PGY3)

"Curcumin and Nigella Sativa as Novel Add-On Therapies for Chronic Rhinosinusitis with Nasal Polyposis: Two Pilot Studies"

Bradley Hubbard & David Pothier

"Create a Neurovestibular Simulator Capable of Mimicking Common Vestibular Pathology for Learning and Simulation"

Ophir Ilan (Clinical Fellow, Otology/Neurotology)

"Recording Human Vestibular Evoked Potentials"

Yelda Jozaghi (PGY2)

"Are Markers of Epithelial Mesenchymal Transition Related to Pattern of Invasion in Patients with Oral Cavity SCC"

George Kurien (Clinical Fellow, Otology – Skull Base Surgery)

"Safety of Intratympanic Fludrocortisone Injections in a Mouse Model"

Mirko Kolaski et al (PGY1s)

"Develop a Pre-Op Education Checklist to Optimize Intraoperative Teaching/Learning"

Joanna Mulvaney

"Identification of Candidate Therapeutic Molecules to Regenerate Components of the Damaged Organ of Corti"

Jaina Negandhi

"Tonotopic Bands Revealed by c-fos Immuno-Labeling: A Mouse Model"

Jennifer Wang (PGY4)

"Establishing a Radiomics Signature to Predict Low-Grade versus High-Grade Primary Salivary Gland Carcinomas"

Josie Xu (PGY1)

"Efficacy of Patient Education Videos in Parents of Children with Aural Atresia"

Xiao Zhao (PGY4)

"Utilizing Metabolic Alterations Induced by Adipose Derived Stromal Cells to Identify Novel Drugs for the Treatment of Radiation Fibrosis"





Percy Ireland Academic Day

25th Annual Percy Ireland Academic Day

FRIDAY MAY 13, 2016 UNIVERSITY OF TORONTO'S HART HOUSE, EAST COMMON ROOM

The Department of Otolaryngology-Head & Neck Surgery held its 25th Annual Percy Ireland Academic Day on **May 13, 2016** at the University of Toronto's Hart House.



Visiting Professor Dr. Mark Wax (Professor & Program Director, Department of Otolaryngology-HNS, Oregon Health Sciences University) delivered *The Percy Ireland Oration* titled: *"Head and Neck Reconstruction: A Collaborative Effort".*



Dr. K. Y. Chow was our Guest of Honour

BEST PAPER IN EACH OF FIVE CATEGORIES

Recognition is given to one presenter in each category



Category 1 - Work undertaken by post-residency research fellows/graduate degree students: Awarded to **Xiao Zhao** for his project: "Utilizing Metabolic Alterations Induced by Adipose Derived Stromal Cells to Identify Novel Drugs for the Treatment of Radiation Fibrosis"



Category 2 - Work undertaken by PGY2 residents during clinical rotation:

Awarded to **Weibo Hao** for his project: "Cochlear Implantation in Post Irradiated Ears"



Category 3 - Work undertaken by PGY3 residents during clinical rotation:

Awarded to Jason Xu for his project:

"The Effect of Level V Neck Dissection in Metastatic Papillary Thyroid Cancer: An Analysis of Recurrence Risk and Morbidity"



Category 4 - Work undertaken by PGY4 residents during clinical rotation: Awarded to Gian-Marco Busato for his project: "Outpatient Subtotal Thyroidectomy: Evolving Practices"



Category 5 - Work undertaken by post-residency clinical fellows:

Awarded to **William Parkes** for his project: "Preliminary Pediatric Experience with a Novel Cochlear Implant Pedestal Designed to Increase Surgical Efficiency without Compromising Device Stability"



Best Overall Presented Paper: Awarded to **Gordon Tsang** for his project: "Determinants of Plate Complications in Mandibular Reconstruction Using Vascularized Free Composite Flaps"

Annual Percy Ireland Dinner

Thursday May 12, 2016, Park Hyatt Hotel, Toronto



Departmental Committees and Membership

Departmental Committees and Membership

Executive

Chair: Ian Witterick

Members: Peter Adamson, Jennifer Anderson, Paolo Campisi, Yvonne Chan, Joseph Chen, Al Chiodo, Jeremy Freeman, Ralph Gilbert, Patrick Gullane, Robert V. Harrison, Jonathan Irish, Jeffrey Mendelsohn, Vicky Papaioannou, Blake Papsin and Allan Vescan



2015 Executive Committee Reception held on December 1, 2015 at the McLean House, Estates of Sunnybrook

Undergraduate Medical Education (UME)

Chair: Allan Vescan

Members: Jason Atlas, Dale Brown, Deron Brown, Paolo Campisi, Yvonne Chan, Jean Davidson, Brad Hubbard, Evan Propst, Manish Shah, Jack Shahin, Jeff Werger

Student Representatives: Ragavan Ganeshathasan, Armin Rahmani, Andrea Copeland, and Daniel Joonil Lee

Residency Program Committee (formerly PGME)

Chair: Paolo Campisi

Members: Brad Hubbard (TEGH), John Lee (SMH), John de Almeida (UHN), Vincent Lin (SHSC & Research Coordinator), Evan Propst (HSC), Eric Monteiro (MSH), Adam Toth (MAM), Josie Xu (PGY1), Yelda Jozaghi (PGY2), Michael Awad (PGY3), Gordon Tsang (PGY4), Edward Park (PGY5), Andrew Courson/Caitlin McMullen (Fellows Reps)

Continuing Professional Development (CPD)

Chair:Yvonne Chan Members: Paolo Campisi, Allan Vescan, Ian Witterick

Research

Chair: Robert V. Harrison Members: Doug Chepeha, Alain Dabdoub, David Goldstein, Karen Gordon, John Lee, Vincent Lin, David Pothier, Evan Propst, Allan Vescan; Paolo Campisi, Ian Witterick *[ex-officio]*

Audiology

Chair:Vicky Papaioannou Hospital for Sick Children: Susan Druker, Karen Gordon, Gina Goulding, Laurie MacDonald, Lora Carinci Sunnybrook Health Science Centre: Julija Adamonis, David Shipp, Kari Smilsky, Ken Williams Sinai Health System: Dana Parker, Nadia Sandor, Eloise Thurier, Erica Wong, Jill Witte, University Health Network: Carolyn Falls

Departmental Appointments Committee (DAC)

Chair: Jonathan Irish Members: Peter Adamson, Jennifer Anderson, Joseph Chen, Jeremy Freeman, Ralph Gilbert, Robert V. Harrison, Vicky Papaioannou, Blake Papsin, Ian Witterick

Departmental Promotions

Chair: Robert V. Harrison Members: Peter Adamson, Joseph Chen, Jeremy

Freeman, Ralph Gilbert, Jonathan Irish, Blake Papsin, Ian Witterick

Budget Advisory

Chair: Ian Witterick

Members: Jennifer Anderson, Joseph Chen, Jeremy Freeman, Ralph Gilbert, Robert V. Harrison, Blake Papsin

Community Academic

Chair: Yvonne Chan

Members: Peter Adamson, Ashlin Alexander, Sumeet Anand, Jamil Asaria, Jason Atlas, Sarfaraz Banglawala, D. Glenn Beard, Greg Belchetz, Michael Brandt, Deron Brown, Roman Chaban, Michael Chang, Nitin Chauhan, Al Chiodo, K-Y Chow, Janet Chung, Kris Conrad, Joseph da Silva, Dustin Dalgorf, Taryn Davids, William El Masri, David Ellis, David Finkelstein, Rick Fox, Artur Gevorgyan, Andres Gantous, David Goldfarb, Everton Gooden, Aman Grewal, Hany Guirgis, David Hacker, James Haight, Jerry Halik, Basil Hassouneh, Robert Hekkenberg, Bradley Hubbard, Theresa Holler, Robert Josephson, Thileeban Kandasamy, Anil Katyal, William Kaul, Jack Kolenda, Mark Korman, Ambrose Lee, Randy Leung, Bosco Lui, Berge Marcarian, Jeffrey Mendelsohn, Robert Mounsey, David Naiberg, Karim Nazarali, Raymond Ng, Alfred Oh, Xerxes Punthakee, Richard Rival, Raewyn Seaberg, Lorne Segall, Manish Shah, Jack Shahin, Oakley Smith, Alma Smitheringale, Philip Solomon, Victor Toran, Cory Torgerson, Adam Toth, Jeffrey Werger and Adrienne Wong

Advancement

Chair: Patrick Gullane Members: Ian Witterick, Heather Yearwood

Quality and Safety

Chair: Danny Enepekides Members: Jennifer Anderson, Doug Chepeha, Jonathan Irish, Adrian James, Eric Monteiro, David Pothier, Manish Shah, Ian Witterick



DEPARTMENTAL Committee and Division Reports

Executive

Dr. I. Witterick (Chair)

The departmental Executive Committee is the senior advisory body to the Chair. The committee includes the hospital chiefs, the directors of undergraduate medical education, postgraduate medical education, continuing professional development, research and the chairs of committees in our department (Audiology, Advancement, Departmental Appointments Committee and Promotions). The head of our two divisions (Head and Neck Oncology and Facial Plastic and Reconstructive Surgery) as well as the representative for the Community Academic Faculty also sit on the Executive Committee. The Executive Committee receives reports from all standing committees on a monthly basis and distributes minutes of the meetings to all faculty members. The committee provides guidance to the Chair in all matters related to the functioning of the department.

Dr. Jeff Mendelsohn from the Trillium Health Partners completed his term as Chief and we welcomed his successor, Dr. Lorne Segall to the committee this year. The committee continues to function well with excellent input and advice on the running and future directions of our department. I am indebted to the high caliber of colleagiality and assistance the members of this committee provide.



Undergraduate Medical Education

Dr. Allan Vescan (Chair)

The 5th Annual Canadian Conference for Undergraduate Medical Education in Otolaryngology-Head & Neck Surgery took place at the University of Calgary in November 2015. All of the undergraduate leadership from across Canada was represented. The morning session featured keynote speakers who focused on integrating medical education technology with UME in OHNS and brainstorming sessions on further refinement of the LearnENT App 2.0.

The afternoon session allowed for the refinement of the National Objectives for UME in OHNS and lectures on assessment and development of questions for the National Exam Bank.

In January 2016, we participated in the third and final year of the Art and Science of Medicine Year I (ASCM I) course. We had 13 faculty members lead small group teaching sessions in a novel "Coteaching" environment with ASCM 1 tutors. Next year we move into the new "Foundations" Curriculum which will see the roll out of the new ASCM Course named: ICE (Integrated Clinical Experience).

Pre-Clerkship Courses

Dr. Brad Hubbard represented our department during the Preclerkship Curriculum as Assistant UME director and led the department in the delivery of the ASCM1, MMMD, PBL and Longitudinal Elective courses.

The fall of 2016 will be a time of change with the roll out of the new Foundations Curriculum. The 1st year class will be in the new curriculum and the second year class will still be receiving the traditional curriculum see diagrams below.





Most of the changes affecting our faculty will arise during the 2017-18 academic year, as most of our teaching responsibilities take place with the Year 2 class. Stay tuned for new opportunities to get involved as our new MMD week is finalized in the TOPIC component of the Curriculum.

Post-Clerkship Courses

Dr. John Lee continues to lead our department as the Assistant Director of UME overseeing the TTR (Transition to Residency Program), Fusion course and Portfolio course.

Clerkship

Our delivery of clerkship has evolved significantly over the last 3-4 years. It began with a redistribution of clinical clerks, away from the academic core hospitals and into our community academic facilities. This has led to higher Rotation Scores and improvements in Teaching Evaluation Scores across all sites. We then moved to the adoption of the Longitudinal Integrated Clerkship (LInC) model of clerkship initially with 7 students at SMH and now with 24 students across multiple academies. This will be expanding further in the 2016/17 academic year. This new model of integration allows for a longitudinal relationship with the student over 8 1/2 day clinics where they have an opportunity to follow patients on their journey through an otolaryngologist's practice. Early assessments reveal that this model has advantages as long as it is delivered in a compact longitudinal fashion.

Future Direction

2016/17 is shaping up to be an exciting year in UME at The University of Toronto with the rollout of the Foundations Curriculum. We will continue to be actively involved in the delivery of UME at the Pre-clerkship level and there will be opportunity for involvement in new models of education delivery.

We need to closely monitor the ever expanding Longitudinal Integrated Clerkship and ensure that this is an appropriate and efficient manner to teach a surgical sub-specialty that traditionally only has had students for 1 week.

I would like to sincerely thank all of our faculty for their amazing contributions to UME over this past year and look forward to your continued support.

Special thanks to Drs. John Lee and Brad Hubbard for all their extra work and effort in the delivery of UME for our department!


Residency Program Committee

Dr. Paolo Campisi (Chair)

The 2015-2016 academic year has been a year of innovation and planning for the introduction of Competency-Based Education to the residency program. This report also celebrates the ongoing outstanding contributions from our residents, fellows, and faculty to the department.

The Residency Program Committee (RPC) has been working tirelessly on a monthly basis guiding the residency program and ensuring a high quality educational program and the introduction of new educational experiences for our residents. Most importantly, it has engaged our learners to play an active role in the management of our program.

A sincere thank you to all of the members of the RPC for their invaluable contributions. John de Almeida (University Health Network) Brad Hubbard (Michael Garron Hospital, formerly Toronto East General Hospital) John Lee (St. Michael's Hospital) Vincent Lin (Sunnybrook Health Sciences Centre & Research Committee) Eric Monteiro (Sinai Health System) Evan Propst (Hospital for Sick Children) Adam Toth (Mississauga Academy of Medicine) Josie Xu (PGY1 representative) Yelda Jozaghi (PGY2 representative) Michael Awad (PGY3 representative) Gordon Tsang (PGY4 representative) Edward Park (PGY5 representative & Chief Resident) Caitlin McMullen (Fellow representative)

Residents

There were 29 residents and 19 clinical and research fellows enrolled in postgraduate training programs within our department. Dr. Edward Park served as the Administrative Chief Resident and represented the interests of the residents diligently. Dr. Park completed his term on April 30, 2016 and Dr. Michael Au was subsequently elected as incoming Chief Resident. Thank you Ed and Michael for your excellent work on behalf of the residents.

All 7 graduating residents successfully passed the Royal College Examinations in Otolaryngology-Head & Neck Surgery held in Ottawa on April 15, 2016. Congratulations to Antoine (Tony) Eskander, Sarah Hugh, Kayvan Nateghifard, Heather Osborn, Dupe Oyewumi, Edward Park, and Nik Wolter. Tony and Heather will be pursuing a head & neck surgical oncology fellowship, Tony at Ohio State University and Heather at Harvard University. Nik will also be in Boston to complete a fellowship in pediatric otolaryngology. Sarah, Kayvan, Dupe, and Ed are establishing community-based practices.



Graduting Residents and Their Spouces.

Resident Selection

The CaRMS selection process was held on January 29, 2016 using best practices guidelines. The process included file reviews, traditional interviews, multiplemini interviews (MMI), and a surgical skills station. The Selection Committee continues to have significant resident representation. The traditional interviews were conducted by Drs. Ian Witterick, Paolo Campisi, Tony Eskander, Sarah Hugh, Edward Park, and Jennifer Wang. The MMIs were administered by Drs. John de Almeida, Yvonne Chan, Vincent Lin, and Eric Monteiro. The surgical skills station was prepared by Drs.Vito Forte and Paolo Campisi, and administered by Gian-Marco Busato, and Peter Dixon. A sincere thank you to all the members of the Selection Committee for their dedication to this very important day for the department.

The program successfully matched all available positions to Canadian medical graduates. The department was delighted to welcome Neil Arnstead from the University of Saskatchewan, Christopher Hong from the University of Ottawa, Florence Mok and Christopher Noel from the University of Toronto, and Jennifer Siu from Queen's University.

Residency Curriculum

The Residency Core Curriculum continues to be provided over a 3-year cycle to residents in the PGY2-4 years. In the 2015-2016 academic year, the core topics covered were Laryngology and Pediatric Otolaryngology. Drs. Jennifer Anderson and Paolo Campisi served as leads for the series of lectures provided.

The PGY1 residents attended weekly "Foundations of Surgery" lectures throughout the year and a twoweek "Prep Camp" in July prior to joining clinical rotations. The PGY5 residents participated in weekly Fellowship Study lectures provided by faculty in preparation for the Royal College Examinations. Residents in the PGY 2-5 years wrote the annual National In-Training Examination in December 2015. Once again, our residents performed very well on this examination.

The faculty members have continued to provide an incredible number of exceptional clinical courses for the residents and fellows. A special thank you goes out to Dr. Peter Adamson for organizing the Soft Tissue Dissection and Rhinoplasty courses, Drs. Jennifer Anderson & Theresa Holler for the Laryngology and Microlaryngeal courses, Drs. John Lee & Allan Vescan for the Endoscopic Sinus Surgery course, Dr. Eric Monteiro for introducing the Craniofacial Plating course, and the many faculty & fellows that have contributed to the series of Temporal Bone Dissection courses provided throughout the academic year.

The PGY4 residents attended the annual American Academy of Otolaryngology-Head & Neck Surgery meeting in Dallas Texas in September 2015. This opportunity has been generously funded every year by the faculty at the core teaching sites. Thank you to the faculty at the University Health Network, Sinai Health System, Sunnybrook Health Sciences Centre, St. Michael's Hospital, and the Hospital for Sick Children.

Our department has encouraged and supported residents to participate in Global Health initiatives offered by our faculty. In the past academic year, two residents joined Dr. Peter Adamson on humanitarian missions with the Face the Future program. In February 2016, Dr. Gian-Marco Busato participated in a mission to Rwanda and in June 2016, Dr. Michael Au participated in a mission to Russia. (see photos on next page) In the coming year, the department will endeavor to provide more opportunities in Northern Ontario, Africa and Asia.

RESIDENCY PROGRAM COMMITTEE



February 2016 Mission of Rwanda Dr. Busato at far rights, Dr. Adamson in Centre, Front.



June 2016 Mission to Russia. Dr. Au at far left, Dr. Adamson in Centre, front.

The third annual resident retreat was held on June 24, 2016. The theme for the retreat was "What I wish I had known as a junior resident". The senior residents provided several lectures on this topic at the Royal Canadian Yacht Club on the Toronto Islands. Access to the club for the retreat was graciously provided by Dr. Peter Dixon.



Resident's 2016 Retreat held at the Royal Canadian Yacht Club

The specialty of Otolaryngology-Head & Neck Surgery has been selected by the Royal College to implement a Competency Based Medical Education curriculum in July 2017. Following several meetings at the Specialty Committee level and locally, a pilot program has been designed for implementation in July 2016. The local meetings have been led by Susan Glover-Takahashi (PGME) & Paolo Campisi. Several faculty development events were provided throughout the year. A curriculum map, assessment tools, individualized schedules, and an on-line assessment program have been developed for piloting during the 2016-2017 academic year. A very special thank you to all members of the PGME team including Susan Glover-Takahashi, Heidi Marcon, Lisa St. Amant, Marla Nayer, and the members of the RPC.

Lastly, thank you to Drs. Adrian James, Yvonne Chan and the faculty mentors for organizing and providing mentorship for the Journal Club meetings.

Fellowship Programs

The Department of Otolaryngology-Head & Neck Surgery at the University of Toronto continues to be a beacon for fellowship training nationally and internationally. There were 19 fellows enrolled in clinical and research training programs in our department for the 2015-2016 academic year:

Research

The PGY2 residents continue to participate in a 4month research block under the supervision of various faculty members. During the 2015-2016 academic year, new initiatives were introduced to help mentor the incoming PGY2 residents in advance of their research block. Residents are now required to submit a research proposal and plan that are reviewed by the RPC and Research Committee. These changes were introduced to ensure success and encourage residents to pursue graduate level programs in subsequent years. Dr. Xiao Zhao continues to work towards completing his PhD program in the next academic year.

The 4th Harry Barberian Fundraising Dinner was held on May 5th, 2016. The proceeds from this annual

event are used to fund resident and faculty research in the department. The recipients of Harry Barbarian Scholarships for 2016 are listed in the "Departmental Awards Program" section of the annual report. A special thank you to Mr. Arron Barberian and Dr. Jeremy Freeman for their ongoing support of this annual event.

The Percy Ireland Annual Academic Day was held on May 13, 2016. The invited professor was Dr. Mark Wax from the Oregon Health & Science University. Dr. Wax was very impressed with the quality of the resident research. The award recipients of the various categories are listed in the "Percy Ireland Academic Day" section of this report.

Research and Teaching Awards

Dr. Nik Wolter was recognized by his peers as the Resident Teacher of the Year.

Dr. Christopher Chin was recognized by the residents as the Fellow Teacher of the Year.

Dr. John Lee was recognized by the residents for the Residency Advocate Award.

Dr. John de Almeida was recognized by his peers as the Faculty Teacher of the Year.

Dr. Dupe Oyewumi finished second for the poster award at the CSO-HNS meeting in June 2016 for her work in screening vestibular impairment in children.

Dr. Xiao Zhao was awarded a CIHR Vanier scholarship (ranked 9th out of 183).

Dr. George Kurien (fellow) was nominated for the 2016 PGME Social Responsibility Award.

Otolaryngology Jeopardy, December 11, 2015



Winning team members (L to R): Drs. Andrew Ma, Jonathan Yip, Weibo Hao and organizer Dr. Edward Park

RESIDENCY PROGRAM COMMITTEE

The Chief's Cup (OHNS Trivia Contest) was held on January 13, 2016 at the Foggy Dew Pub



A graduation ceremony for Residents and Fellows was held on June 8, 2016 at Hart House























RESIDENCY PROGRAM COMMITTEE



















RESIDENCY PROGRAM COMMITTEE









Continuing Professional Development

Dr. Yvonne Chan (Chair)

Our department has established a reputation of delivering world class continuing education programs under the University of Toronto brand for community and academic otolaryngologists. We are indebted to our entire faculty who volunteer their time and energy to organize the successful courses that are attended by otolaryngologists and other health care professionals from around the world. I would like to thank Dr. Ian Witterick for organizing our Grand Rounds every Friday morning during the academic year. These rounds include presentations from visiting professors, guest lecturers, community & academic faculty, fellows, and residents. In the last 4 years, we have added the capability to watch the Grand Rounds live to help provide our community academic faculty easier access to these educational activities.

Courses Organized

DATE(S)	COURSE TITLE (ORGANIZERS)	GUEST FACULTY/INVITED SPEAKERS
June 4, 2016	Caring for Skin Cancer & the Aging Face (Drs. Peter Adamson, Ashlin Alexander, Jamil Asaria, Michael Brandt, Andres Gantous, Philip Solomon, Cory Torgerson)	Division of Dermatology, U of T: Drs. Howard Bargman, Christian Murray, Lori Shapiro Department of Radiation Oncology, U of T: Dr. Woodrow Wells Community Dermatologist: Dr. Dusan Sajic
May 13, 2016	25th Annual Percy Ireland Day (Drs. Paolo Campisi, Robert Harrison, Ian Witterick)	Visiting Professor: Mark Wax, Portland OR Guest of Honour: KY Chow
May 11-14, 2016	14th International Conference on Cochlear Implants (Drs. Julian Nedzelski, Joseph Chen, Vincent Lin, Alain Dabdoub)	Keynote Speakers: Drs. Michael Dorman, Steve Lomber, Sandra Black, Charles Limb, Warren Estabrooks Citations: Professors Henyrk Skarzynski, Thomas Lenarz, Drs. Thomas Balkany, William Gibson

CONTINUING PROFESSIONAL DEVELOPMENT

Courses Organized continued...

DATE(S)	COURSE TITLE (ORGANIZERS)	GUEST FACULTY/INVITED SPEAKERS
February 6, 2016	14th Annual Otolaryngology Update (Drs. Yvonne Chan, Al Chiodo, Brad Hubbard)	Jason Franklin, Queen's University Louis Liu, U of T Robert Lorenz, Cleveland Clinic Kristian MacDonald, University of Ottawa Corey Moore, Western University Leigh Sowerby Western University
February 5, 2016	Septorhinoplasty Update (Drs. Peter Adamson, Yvonne Chan, Andres Gantous, Oakley Smith)	
November 7-8, 2015	Current Concepts in Head and Neck Surgery (Drs. Patrick Gullane, Ehab Hanna, Ashok Shaha)	
November 6, 2015	ACS Thyroid & Parathyroid Ultrasound Course (Drs. Yvonne Chan, Jeremy Freeman)	David Goldenberg, Penn State Hershey Russell Smith, University of Nebraska
October 24, 2015	Current Management of Sleep Disorders (Drs. Raymond Ng, Yvonne Chan)	Stephen Glazer, Queen's University Tina Meisami, Faculty of Dentistry, U of T Purti Papneja, DFCM, U of T Alan Lowe, Queen's University Alan Fung, Dept of Psychiatry, U of T
October 16-17, 2015	Sialendoscopy Course (Dr. Jack Kolenda)	Philippe Katz, School Paris University VI and VII Rohan Walvekar, Louisiana State University David Cognetti, Thomas Jefferson University Allison Ogden, Washington University of Medicine Michael Turner, Mount Sinai Beth Israel
October 16, 2015	2nd Toronto International Pediatric Open Airway Surgery Course (Drs. Evan Propst, Paolo Campisi, Marvin Estrada)	Michael Rutter, University of Cincinnati Matthew Bromwich, University of Ottawa Sam Daniel, McGill University Murad Husein, Western University Darren Leitao, University of Manitoba Jonathan MacLean, McMaster University John Manoukian, McMaster University Charles Myer IV, University of Cincinnati Steven Sobol, University of Pennsylvania Christopher Wootten, Vanderbilt University

Courses Organized continued...

DATE(S)	COURSE TITLE (ORGANIZERS)	GUEST FACULTY/INVITED SPEAKERS
October 15, 2015	6th Toronto International Pediatric Endoscopic Course (Drs. Evan Propst, Paolo Campisi, Marvin Estrada)	Michael Rutter, University of Cincinnati Matthew Bromwich, University of Ottawa Murad Husein, Western University Darren Leitao, University of Manitoba Jonathan MacLean, McMaster University John Manoukian, McMaster University Charles Myer IV, University of Cincinnati Lily Nguyen, McGill University Steven Sobol, University of Pennsylvania Christopher Wootten, Vanderbilt University

Invited Professors/Invited Guests



June 2, 2016 Dennis Kraus New York Head & Neck Institute (Connery Lecturer)

TITLE OF PRESENTATION

Management of Malignant Tumors of the Maxillary Sinus & Infratemporal Fossa



May 13, 2016 Mark Wax Oregon Health and Science University (Percy Ireland Day) Head and Neck Reconstruction: A Collaborative Effort



May 6, 2016 Gresham Richter University of Arkansas for Medical Sciences Practical Management of Vascular Lesions of the Head & Neck



April 29, 2016 Richard Hayden Center for Regenerative Medicine, Mayo Clinical Arizona *(Head & Neck Cancer Foundation Lecturer)* Head & Neck Reconstruction: What's Changed in 33 Years?

CONTINUING PROFESSIONAL DEVELOPMENT

Invited Professors/Invited Guests continued...



April 22, 2016 Della Saunders Research Projects & Program Development Manager, Research & Innovation, Faculty of Medicine, University of Toronto Getting Funded: Writing a Successful Grant Proposal

TITLE OF PRESENTATION



April 1, 2016 Abi Sriharan Northeast Ohio Medical University We are from Earth, They are from Jupiter: Understanding Today's Learners



March 18, 2016 Ted Teknos Ohio State University (Gullane/O'Neil Lecturer) Surgical Outcomes and Management of Oropharyngeal Cancer



March 11, 2016 Kathleen Cullen McGill University (Tomlinson Lecturer) The Vestibular System: Multimodal Integration and Encoding of Self-motion for Perception and Action

March 4, 2016 Martyn Hyde Department of Otolaryngology-Head & Neck Surgery, Faculty of Medicine, University of Toronto *(Krista Riko Lecturer)*

February 19, 2016 Bryan McIver University of South Florida *(Binstock Lecturer)* Evaluating Thyroid Nodules in the Era of Molecular Markers

The Pursuit of Quality

Invited Professors/Invited Guests continued...



January 29, 2016 Terry Day Medical University of South Carolina *(Bulhoes Lecturer)* TITLE OF PRESENTATION

An Update on Regional Metastasis in Parotid Gland Malignancies



January 15, 2016 Jonathan Sykes University of California, Davis (Joseph K.H. Wong/Smile China Lecturer) Contemporary Concepts in Rhinoplasty

November 20, 2015 Michael Ruckenstein University of Pennsylvania What I Learned in Residency 20 Years Ago that is Still True Today



November 13, 2015 Ryan Brydges The Wilson Centre, University Health Network Transforming 'Self-Regulated Learning' into Life-Long Learning



November 6, 2015 Russell Smith University of Nebraska Medical Center Contemporary Management of Primary Hyperparathyroidism



October 30, 2015 Carol-Anne Moulton Department of Surgery, Faculty of Medicine, University of Toronto

The Vulnerability of the Surgeon in Shining Armour

CONTINUING PROFESSIONAL DEVELOPMENT

Invited Professors/Invited Guests continued...

October 23, 2015 Edward Etchells Department of Medicine, Faculty of Medicine, University of Toronto

Implementing Change: Non Negotiable Elements

TITLE OF PRESENTATION



October 16, 2015 Michael Rutter University of Cincinnati College of Medicine Management of Children with Complete Tracheal Rings



October 9, 2015 Roy Cassiano University of Miami, Miller School of Medicine

Endoscopic Skull Base Surgery: Challenges and Limitations

The Department of Otolaryngology-Head & Neck Surgery continues to play an increasing and effective role in international continuing medical education and facilitating Canadian influence in international development and health systems development. This is pioneered by Dr. Arnold Noyek, Director for International Continuing Medical Education for the Faculty of Medicine. Over the years, Dr. Noyek, through CIESPO, used CEPD for health as a bridge to peace and global health initiatives. The core principle has always been: Canadian umbrella, academic setting, multilateral on the ground across the Arab and Israeli divide. More recently, University of Toronto accredited distance educational programming through video teleconferencing has been developed. The durable network of peaceful professional cooperation across the Arab and Israeli frontier has been offering increasing and regularized CISEPO (www.CISEPO.ca) and Peter A. Silverman Global teleHealth programming involving Canadian, Israeli, Jordanian and Palestinian universities, teachers, residents, students, nurses and health care

professionals. The department facilitates these high impact multidisciplinary programs thus extending its own influence as an international academic and educational broker not only in advancing hearing health and other aspects of Otolaryngology but by engaging in a multidisciplinary manner with a variety of universities and health centers worldwide.

Upcoming Courses 2016 & Beyond

October 18-19, 2016: Endoscopic Ear Surgery Course, Toronto, Ontario.

October 20-21, 2016: Pediatric Endoscopic and Airway Courses, Toronto, Ontario.

November 5 & 6, 2016: Current Concepts in Head & Neck Surgery, Houston, Texas.

February 3, 2017: Update in Medical and Surgical Management of Sleep Disorders, Toronto, Ontario.

February 4, 2017: 15th Annual Otolaryngology Update, Toronto, Ontario.

March 3 & 4, 2017: University of Toronto Microvascular Course, Toronto, Ontario.

April 7, 2017: Toronto Voice Course, Toronto, Ontario.

Summary

We are committed to further establishing innovative courses for otolaryngologists, academic and

community, as well as family practitioners and allied health care providers. Faculty development is an area of new opportunity for us to explore including teaching, time management, leadership training, and development of teaching dossier for promotion application. I would like to thank Audrea Martin, our Business Officer, for her continued excellent support for our CPD portfolio.

Caring for Skin Cancer and the Aging Face - June 4, 2016





14th International Conference on Cochlear Implants – May 11-14, 2016



CONTINUING PROFESSIONAL DEVELOPMENT

14th Annual Otolaryngology Update – February 6, 2016



































CONTINUING PROFESSIONAL DEVELOPMENT





TONY & ANNE ARR CLASSROOM











Septorhinoplasty Update – February 5, 2016

















CONTINUING PROFESSIONAL DEVELOPMENT

Current Concepts in Head and Neck Surgery – November 7-8, 2015





















ACS Thyroid & Parathyroid Ultrasound Course – November 6, 2015





CONTINUING PROFESSIONAL DEVELOPMENT

Current Management of Sleep Disorders – October 24, 2015



Sialendoscopy Course – October 16-17, 2015



International Pediatric Open Airway Surgery and Endoscopic Courses – October 15-16, 2015



Research Committee

Dr. Robert V. Harrison (Chair)

The mission of the Faculty of Medicine is to seek excellence in clinical practice, teaching and research, and we follow that lead in our department. Within the umbrella of our specialty we have a very diverse range of research teams that span almost all aspects of Otolaryngology – Head & Neck Surgery. (See the diagram on page 126 of research teams directly associated with our University department.)

Some clinically related research is carried out by almost of our staff, often in association with other healthcare professionals and/or basic scientists. Our full-time scientists interact extensively with our clinicians in translational studies, and are also involved in basic aspects of science ("discovery science") relating to Otolaryngology – HNS.

Our departmental Research Committee is structured to represent the research activities at each of our core teaching hospitals, and also to represent both clinical and basic research. Thus, **Karen Gordon** and **Evan Propst** represent SickKids. From Sunnybrook we have **Alain Dabdoub** and **Vincent Lin**. Sinai Health System research is represented by **Al Vescan**, and science at St. Mikes by **John Lee**. At UHN, **David Pothier, Doug Chepeha** and **David Goldstein** are the hospital representatives. The committee also includes *ex-officio* members **Ian Witterick** and **Paolo Campisi**.

In our discussions throughout the year we have addressed some of the pressing current issues relating to research. This included the very unhealthy state of federal research support, and the increasing need to rely on industry or philanthropic funding. The research-publishing world has undergone a major transition with online journals usurping the traditional hard copy journals. Scores of online publishing enterprises have been created, competing with established journals. All journals now charge high processing and "open access" fees.

Part of our Departmental Strategic Plan relates to improvement of our "academic impact". In this context we have discussed various metrics used to measure quality of research. We have advised our departmental staff and trainees on the value of considering (when possible) journal Impact Factor, H-index and other measures of individual academic performance such as ResearchGate, Google Scholar and Scopus entries. The reality is that we will all be judged on such factors in the future!

Two events in the department are the highlights of the academic year. Our annual academic (Percy Ireland) day is when the focus of attention is on both clinical trainees research during residency or fellowship, as well as graduate students in basic science labs. Our committee has spent some time discussing how our resident research experience can be improved. With leadership from Paolo Campisi we have adopted a scheme that will ensure that resident research projects are systematically approved and monitored by members of our Research Committee.

RESEARCH COMMITTEE

In the fall we also hosted an excellent research evening at which we attempted to exhibit an overview of the many research activities in the department. This year we held this event in the new research and learning tower at SickKids (PGCRL). The time available at the research evening is always inadequate to allow in-depth display of all the science that goes on "behind the scenes" but we try to include as much as possible. Our research evening this year was very successful covering, albeit in brief, the whole range of science activity in the department. It was an impressive display of academia that we should all be very proud of.

The past year has seen the initiation, as well as the fruition of many research projects. Our department continues to improve research productivity in terms of the typical metrics of success (grant funding and peer reviewed publications) as well as the demand on our faculty to make presentations at national and international clinical and research meetings. By all measures of research productivity, we continue to grow and fulfill the research mission of the Faculty of Medicine in Toronto. Well done to all those who have contributed to our academic progress.





Ms. Vicky Papaioannou (Chair)

The Audiology Committee is composed of a strong group of audiologists dedicated to research, undergraduate and postgraduate education, and continuing medical education within the department. Members of the Audiology Committee under the leadership of Susan Druker provided audiology teaching as part of the Otolaryngology curriculum for the undergraduate medical students. The core lecture series for the otolaryngology residents took place in the fall. "Audiogram of the month" continued for another year and continued to include vestibular cases as well as hearing. Kids2Hear, a combined program involving undergraduate medical students and members of our department had another successful year. Medical students and many members of our department participated in hearing screening at several different Toronto elementary schools. Martyn Hyde, Professor Emeritus, presented at the annual Krista Riko Lecture discussing "The Pursuit of Quality". The evolution of Quality Improvement (QI) concepts and methods in industry and healthcare were presented in this valuable presentation for both students and practicing professionals.

The Audiology Committee members for the 2015-2016 academic year were:

Hospital for Sick Children

Susan Druker, Karen Gordon, Gina Goulding, Laurie MacDonald, Vicky Papaioannou (Chair)

Sinai Health System

Dana Parker, Nadia Sandor, Eloise Thurier Erica Wong, Jill Witte

Sunnybrook Health Sciences Centre

Julija Adamonis, David Shipp, Kari Smilsky, Ken Williams

University Health Network

Carolyn Falls



Department Appointments Committee

Dr. Jonathan Irish (Chair)

The Departmental Appointments Committee (DAC) was established in all clinical departments under the directive of the Dean of Medicine, University of Toronto. The DAC has the following mandates:

- 1. ensures consistent and appropriate appointment processes to the Department of Otolaryngology-Head & Neck Surgery;
- 2. conducts 2 performance reviews (first a midterm review at 18 months followed by the usual full probationary period prior to a continuing annual appointment at three years, but may be extended for up to two years) of all Fulltime appointments in accordance with the Procedures Manual for Clinical Faculty;
- reviews all activity reports of Part-time, Clinical Adjunct and Status only faculty members and makes recommendations to the Chair of the department.

The DAC provides advice to the chair and hospital chief regarding all initial part time and full time appointments, all adjunct appointments and conducts 2 performance reviews of all full-time academic appointments first at 18 months then at the end of the probationary period.

The following faculty serve on the DAC: Jonathan Irish (Chair), Peter Adamson, Jennifer Anderson, Joseph Chen, Jeremy Freeman, Ralph Gilbert, Blake Papsin, Ian Witterick (ex-officio) Robert Harrison, and Vicky Papaioannou. The committee is active and has three planned meetings per year (November, February and May) with other meetings scheduled as necessary.

The Departmental Appointments Committee has made the following recommedations to the Chair of the department this year:

Approval of Faculty Probationary Review

As a requirement of academic recruitment at the University of Toronto every new recruit must undergo an academic review after a probationary period of 3-5 years after recruitment. Dr. David Pothier and Dr. John de Almeida both had a midterm review and were unanimously approved.

Approval of New Clinical Adjunct Faculty Appointments all at the level of Lecturer

- Michael Chang
- Artur Gevorgyan
- Sandra Vojvodich

Approval of New Clinical Part Time Faculty Appointment at the level of Assistant Professor

Prabhjyot Singh

Approval of New Status Only Appointment at the level of Lecturer

Lora Carinci

The DAC also recommended re-appointment of 46 Clinical Adjunct and Part-time Faculty

The DAC membership would like to congratulate all new faculty members to the Department of Otolaryngology-Head & Neck Surgery.



Department Promotions Committee

Dr. Robert V. Harrison (Chair)

Promotion through the ranks at the University of Toronto is an important marker of academic achievement, and an indicator of excellence in both our clinical and research communities. There is an expectation that academic staff recruited into our department will work towards and achieve university promotion, eventually to full professor level.

In the Faculty of Medicine the standards and criteria for promotion are high. For clinicians in our department, much credit is given for being an excellent role model and showing initiatives to improve clinical care, i.e. Creative Professional Activity (CPA). Contributions to teaching are also important at all levels, from undergraduate to continuing education. For all our staff, and particularly our scientists and clinician-scientists, research is essential. Peer reviewed publications are expected and full time scientists are also expected to garner research funding.

Our Promotions Committee membership reflects the full range of clinical sub-specialties in Otolaryngology-Head & Neck Surgery, as well as the special interests of our teaching hospitals. The committee for this year consisted of Peter Adamson, Joe Chen, Jeremy Freeman, Ralph Gilbert, Jonathan Irish and Blake Papsin. Ian Witterick is an ex officio member. Our committee makes an assessment and will recommend promotion candidates to our Chair and to the Dean. Our committee does not award promotion, but decides who is eligible for consideration by the Decanal Committee of the Faculty of Medicine. Our committee also assists candidates to prepare documentation, and coordinates external and internal peer reviews.

Our committee is involved in all university promotion steps from the rank of Lecturer to Assistant Professor (so called "junior promotions") as well as senior level stages through Associate to Full Professor. Regarding the early promotion stage, many of our community-based faculty who have served the educational mission of the department, and/or have CPA achievements clearly deserve university professorial rank. In the past year we offer our congratulations to Sumeet Anand, Michael Brandt, Everton Gooden, Jack Kolenda, Robert Mounsey, Allan Vescan and Jeffrey Werger for promotion to Assistant Professor.

For our more senior promotions we are pleased to note that David Goldstein has been promoted to Associate Professor, and Karen Gordon has been elevated to the rank of Full Professor.

Professorial rank is one of the more tangible reminders that we are part of a University family. Even though we are all dispersed at various hospital and institutes, we have a common academic mission and, more importantly, a shared collegiality. Our promotions committee has an important role, and I would thank all members of our committee for their careful and diligent assistance over the past year.



Budget Advisory Committee

Dr. I. Witterick (Chair)

The Budget Advisory Committee helps to guide the Chair in appropriately monitoring the financial affairs of the department, particularly related to academic stipends.

We continue to experience annual reductions in our base budget to run the department secondary to financial pressures in the Faculty of Medicine and University of Toronto. We have been frugal with our budget expenditures and have made adjustments as necessary to deliver a balanced budget.

We strive to support new full-time faculty members to create an academic environment to allow them to be academically successful. All faculty members have been very supportive as we continue to have challenges with our budget. I especially want to thank all members of this committee for their help and advice and a special note of thanks to our Business Officer, Ms. Audrea Martin who does an excellent job in managing our finances.



Community Academic Faculty

Dr. Yvonne Chan (Lead)

The membership of this group of faculty has increased significantly in the last 6 years as we take on a more expanded role in undergraduate and post graduate education. This year, I would like to welcome the following new community academic faculty: Drs. Michael Chang, Artur Gevorgyan and Sandra Vojvodich.

The Community Academic Faculty continues to play an active role in all levels of education and research within the department. At the undergraduate level, clinical teachers at all the academies are actively involved in the Arts & Science of Clinical Medicine teaching and clerkship teaching. Medical students are also being supervised by our community faculty during clinical observerships, both pre-clerkship and clerkship. At the post-graduate education level, trainees continue to rotate through Toronto East General Hospital, North York General Hospital, Trillium Health Partners, and William Osler Health System. PGY 4 residents have a 1 month rotation in Facial Plastic Surgery. In addition to residency training, world renowned fellowships in Facial Plastic Surgery are offered by Drs. Adamson, Ellis, and Conrad.

Our Community Academic Faculty are involved in Continuing Education & Professional Development to practicing otolaryngologists. We were involved in the planning and sponsorship of the successful 14th Annual Otolaryngology Update in February 2016 at the Li Ka Shing Knowledge Institute. Again, it was extremely well attended and highly rated by otolaryngologists across Ontario.

The Distinguished Alumnus Award this year was presented at The Percy Ireland Dinner in May 2016. This award is presented to an Alumnus of the University of Toronto Otolaryngology-Head & Neck Surgery program and whose professional and ethical standard have been of the highest order. This year's award was presented to Dr. Brian Tatham.

As the membership of the community academic faculty grows, we will continue to make a strong contribution to both clinical and basic science research and all levels of education through publications, invited lectures, and visiting professorships.



Advancement Initiatives and Successes

Dr. Patrick Gullane (Lead)

Initiatives and Successes

This past year has been an exciting one where together we further built on prior relationships, cultivated new ones with our alumni, generous donors and friends to successfully enhance our existing giving base.

We have also increased giving by clearly communicating the department's needs and by offering creative ways for donors to support our mission. In addition, we have effectively developed these relationships and communicated our case for support through a dedicated solicitation team of faculty, staff and volunteers.

We exceeded last year's goal of five major gifts with a total of nine major gift solicitations. The process has been very positive in helping cultivate relationships and in addition to learn more about why faculty, friends and alumni desire to support the department's mission.

Notably, we had success with donors who renewed and increased their support, through strategic cultivation and stewardship activities which are key to fostering relationships and ongoing philanthropy. Strategic cultivation has covered a range of activities from direct mail, telephone and e-mail contact, invitations to events, personal visits and peerreviewed networking. During this past year Heather Yearwood, Senior Development Officer, U of T Medicine, Department of Otolaryngology-Head & Neck Surgery did a most laudable job in conducting 14 discovery meetings and two discovery tours with support of members of our faculty and alumni. Discovery meetings are an effective way to identify and qualify prospective major gift donors and help build a pipeline of alumni and friends who value the department. In addition, it provides a clear picture of their philanthropic interests and educates them on how this support may be aligned with the university and the departments values, vision and strategic plans.

These discovery visits provide three objectives:

- 1. Provide a meaningful opportunity for the department to listen to a key consultant,
- 2. Help develop a philanthropic profile of the donor,
- 3. Train and engage the organizations volunteers in the cultivation and solicitation process.

This year the department's gift planning program secured three legacy gifts: two bequests and one life insurance.

To express the gratitude of the university department to its supporters, major and planned giving donors have the opportunity to be featured on the Faculty of Medicine "Donor Recognition Wall" located in the Medical Sciences Building.

Stewardship is therefore vital in maintaining long term relationships with donors. To show appreciation and to formally acknowledge our generous supporters, the Office of Advancement prepares and produces "Impact Summaries" and "Donor Financial Reports".

This past year our Senior Development Officer personally hand delivered six Impact Summaries, met with the donors and heard about their wonderful aspirations to continue to give back to our department. This is crucial to the understanding of the donors and the impact they can have on our departments mission.

Well how do we continue to facilitate this support of our department's vision:

A small sample of these special events coordinated by the office of advancement included:

- Department of Otolaryngology-Head & Neck Annual Percy Ireland Dinner
- Department of Otolaryngology-Head & Neck Event for Postgraduates
- Inaugural Dr. Joseph K. H. Wong Lecture and Dinner
- Annual Otolaryngology-Head & Neck Update Event
- Alumni receptions hosted by the Chair at the AAO-HNS Annual meeting at the CSO-HNS Annual meeting.

This year a most generous gift of \$100,000 from Paul and Rose Allison to establish the Rose and Paul Allison Hearing Loss Research Fund at the University of Toronto. This gift shall be used to support Biological Scientist Dr. Alain Dabdoub's research aimed at uncovering the development process unfolding in a less accessible sense organ: the ear. This is the only lab of its kind in Canada. This investment other interested individuals to support initiatives that will help further transform our departments future opportunities and inspiring students to consider a career in otolaryngology-head & neck surgery and will open doors for cutting-edge scientific and hearing-loss research. We are also grateful to Rose Allison for her role as ambassador for the Department of Otolaryngology-Head & Neck at the University of Toronto. Her volunteer commitment will help advance research, and education for the department.

We are again indebted to the continued support from Dr. Raymond Ng- who's contribution of \$100,000 matched by Dean Whiteside and the Provost helps to continue create two awards: one the Provost's PhD Enhancement Fund Dr. Raymond H. W. Ng PhD Award for the support of PhD students in our department and the second the Dr. Raymond H. W. Ng Graduate Award for MSc trainees. This helps to ensure our future as a specialty that Canada has the expertise we need to meet the challenges and the opportunities facing us today and in years to come at the University of Toronto.

The momentum of generosity was further experienced and enhanced with the 4th Annual Harry Barberian Memorial dinner organized by Dr. Jeremy Freeman and supported by Mr. Arron Barberian at his historic restaurant and steakhouse. Over 100 generous donors including this year's special guest, Roberto Alomar of baseball fame, guest speaker, attended a special evening with spectacular food that raised in excess of \$110,000. This fund enables the support of research scholarships for our newly recruited faculty, residents and fellows across the university department.

In addition the very generous donation of \$240,000 contributed by the "Smile China Foundation" in honour of Dr. Joseph K. H. Wong who was responsible for creating two initiatives. The funds in perpetuity support: One, an annual "Joseph K. H. Wong/Smile China Project Lecture in Global Health & Outreach". The First Joseph K.H. Wong Visiting Lecture was hosted by the Department of Otolaryngology-Head & Neck Surgery on January 14, 2016 and welcomed the esteemed Visiting Professor Dr. Jonathan Sykes, Professor of Otolaryngology-Head & Neck Surgery, University of California at Sacramento. His lecture titled "Applying Anatomy to Aesthetics in Facial Surgery" was most informative and innovative. Second; an annual Joseph K. H. Wong/Smile China Project Award in Global Health & Outreach". The Award

ADVANCEMENT INITIATIVES AND SUCCESSES

will be given to trainees or faculty members within the Department of Otolaryngology-Head & Neck Surgery, and will support the recipient's travel to a low- or middle-income country, with the purpose of advancing education and building capacity in areas of need.

This year the department at the Sunnybrook Health Sciences Centre was the benefactors of a most generous donation in excess of 2 million dollars by the Michael and Sonia Koerner to support the ongoing innovative inner ear research by Drs. Alain Dabdoub, Joe Chen and Vincent Lin.

The department continues to benefit from the ongoing support of the Chapnik, Freeman and Friedberg Clinical Scientist Program Award which contributes some \$15,000 per year to a deserving graduate student or newly recruited faculty member.

Further generosity from Mr. Mark Daniels has helped to secure \$30,000 for teaching microscopes and a further committed support of \$50,000 for 2017-18 for ear drills for our teaching/simulation laboratory in the University of Toronto's Surgical Skills Centre (the "SSC") at Sinai Health System.

This past year also saw the endowment of a \$3 million chair and selection of the chair holder Dr. Ralph Gilbert for the Gullane/O'Neil Family Chair at the UHN/U of T.

Two additional chairs this past year were the Lisa Gnat Family and Bastable-Potts Chair in Otolaryngology held by Dr. Blake Papsin at The Hospital for Sick Children and the Nicole Muzzo Term Chair in Voice Disorders Research held by Dr. Jennifer Anderson at St. Michael's Hospital.

In addition Dr. Gilbert secured a major donation of \$5 million from Mr. Joseph Burnett to further enhance the department's consolidation and update.

In addition to the above some of our faculty have made generous contributions to the department through wills and donations that include funding named lectures, research awards and scholarships that exceed \$300,000.

Finally the department's mission continues to be supported through the many chairs funded in the department, i.e. the Wharton Chair in Head & Neck Surgery, the Gullane O'Neil Chair, the Sullivan Chair, the Temmy Latner Chair, the Elia Chair and the Cochlear Chair. The funds from these endowments are the financial engine that helps to further enhance the research, educational and clinical initiatives that would not have been possible otherwise. The department's research productivity of over 170 peer reviewed publications has been responsible in great part as a result of this funding and philanthropy.

Finally we are indebted to the leadership provided by so many people in the department which include our Chair Dr. Ian Witterick, and Ms. Heather Yearwood our Senior Development Officer supporting our departments advancement mission.



Quality and Safety Committee

Dr. Danny Enepekides (Head)

The Quality and Safety committee had an active academic year. We initiated several projects. These included the introduction of a Quality and Safety speaker series, the creation of two web-based patient education tools, and the development of two clinical guidelines. Our first two speakers were Dr. Ed Etchells and Dr. Shojania Kaveh. Both gave outstanding lectures on change management and set the stage for the future success of this speaker series. Dr. Eric Monteiro led the development of two webbased education tools, one for tonsillectomy and the other for thyroidectomy. The two projects were supported by the Harry Barberian Fund and will be shared with the department in the coming academic year. Finally, we are developing two clinical guidelines that will be reviewed and presented to the department in the fall. The first, led by Dr. Praby Singh, will be on the appropriate use of thromboprophylaxis in otolaryngology. The second, led by Dr. Eric Monteiro, will review the appropriate use of perioperative antibiotic prophylaxis in head and neck surgery. We look forward to ongoing success this year and plan on expanding these initiatives further.



Dr. Ralph Gilbert (Head)

Members, Drs. Ralph Gilbert(Chair), Douglas Chepeha, Dale Brown, Jean Davidson, John de Almeida, Danny Enepekides, Jeremy Freeman, Patrick Gullane, David Goldstein, Kevin Higgins, Jonathan Irish, Ian Witterick, Al Vescan, and Eric Monteiro.

The Division of Head and Neck Oncology at the University of Toronto continues to have an extremely productive clinical and academic program. The clinical and academic programs are located at three sites. The Princess Margaret/UHN site with surgical services at the Toronto General Hospital; the Princess Margaret/Sinai Health System with surgical services at the Mt. Sinai.

The division directs an American Head and Neck Society Advanced Training Fellowship program under the leadership of Dr. Jeremy Freeman. This highly sought after fellowship program with six clinical rotations and one research position, draws applicants from around the world and develops and trains the future leaders of our sub-specialty.

The PMH/UHN site provides tertiary/quaternary services in Head and Neck Oncology within the largest regional program in Canada. The PMH/UHN site provides a complete spectrum of head and neck services including Endocrine, Microvascular surgery and minimally invasive approaches including Robotics. The departments at UHN and the Sinai Health System are pleased to welcome Dr. Eric Monteiro to our group. Eric trained at the University of Toronto and completed a H&N and Skull Base Fellowship under Dr. Witterick's supervision. Eric's academic focus is outcomes research and quality and safety and his primary appointment for clinical care is at the Sinai Health System.

The PMH/UHN program has a strong multidisciplinary translational program, with four core labs focused on different aspects of Head and Neck Oncology. This program has been strongly supported by the PMH Foundation with key donations from the Joe Findlay and Wharton endowments.

The PMH/Sinai Health System continues to offer tertiary/quaternary Head and Neck Services with an internationally acclaimed program in endocrine oncology. Drs. Witterick, Vescan, de Almeida and Monteiro in collaboration with the UHN neurosurgery group provide a world-class program in MIS skull base surgery at Sinai Health System and the Toronto Western Hospital. The Sinai Health System has an active and extremely productive molecular oncology program in endocrine and oral cancer.

The Sunnybrook/Odette site offers tertiary/quaternary Head and Neck Oncology Services including Endocrine and Microvascular Surgery. The group at Sunnybrook also has a major presence in the Odette multidisciplinary Skin

Malignancy Site Group. Dr. Kevin Higgins is the site chair for Head and Neck at Sunnybrook. The group continues to collaborate with the UHN group and has an active research program in molecular imaging and outcomes research. Dr. Danny Enepekides is the Head of Surgical Oncology at the Odette Cancer Centre at Sunnybrook, one of the leading departments in the country.

The University of Toronto Head and Neck Division had a very productive academic year. Our collaboration with Memorial Sloan Kettering Hospital in New York and the MD Anderson Cancer Center in Houston in presenting the annual Current Concepts Meeting continues and involves a broad spectrum of our faculty. The meeting in Toronto in November 2015 was a great success with tremendous support from CPD director, Dr. Yvonne Chan.

The division's staff continues to be highly sought after speakers with presentations in the past year at a

number of high profile Head and Neck meetings including; AHNS, and numerous national and international societies. Dr. Irish just completed his role as Chair of the International Head and Neck Meeting put on the by the American Head & Neck Society in July of 2016, and will also serve as Vice-President of the AHNS and President in 2017-2018. Dr. Gilbert has been elected President-Elect of the International Association of Oral Oncology and will serve as President in 2017.

The division continues to thrive providing worldclass clinical programs to the region and the province. The division through its academic programs continues to have a national and international presence providing leadership in Advanced Head and Neck training and improving the care and survival for patients afflicted with Head and Neck malignancies.


Division of Facial Plastic and Reconstructive Surgery

Dr. Peter Adamson (Head)

It is my pleasure to report on the activities of the Division of Facial Plastic and Reconstructive Surgery for the academic year 2015 – 2016. We presently have 19 members, including Drs. Ashlin Alexander, Jamil Asaria, Michael Brandt, Nitin Chauhan, Douglas Chepeha, Kris Conrad, David Ellis, Danny Enepekides, Andres Gantous, Ralph Gilbert, David Goldstein, Kevin Higgins, Robert Mounsey, Xerxes Punthakee, Richard Rival, Oakley Smith, Phil Solomon, Cory Torgerson and Peter Adamson.

Of note was the passing this year on September 7, 2015 of Dr. Wilfred S. Goodman, an honourable member of our division and one of the pioneers in facial plastic and reconstructive surgery. Dr. Goodman distinguished himself through his introduction of external or open septorhinoplasty to North America in 1970. Remembrances and accolades have previously been written – suffice it to say his shadow is long and his legacy deep.

Our division has had a productive year, not only due to the many contributions of our faculty members, but also due to the exceptional assistance of our departmental administrative staff. Michael Figueiredo, Audrea Martin and Sonia Valente provide us invaluable support to fulfill our academic mission. This has been developed with the expert guidance and leadership of our chair, Dr. Ian Witterick, and our PGME director, Dr. Paolo Campisi. Also, Dr. Yvonne Chan has provided valuable advice in creating our Continuing Professional Development courses. To each and all of them I extend our deepest gratitude on behalf of our divisional faculty.

Promotions

This year saw the promotion of Drs. Michael Brandt and Robert Mounsey to Assistant Professor. It is recognized that academic promotion is a rigorous process and a special challenge for part-time staff. I join all members of our department in congratulating them on this achievement and for their continued contributions to our division.

Divisional Continuing Medical Education Courses

Two courses were developed for practicing physicians and surgeons. Septorhinoplasty 2016: Consensus and Controversies was held February 5, 2016 at Sinai Health System. This was directed by Dr. Adamson with additional faculty presentations from Drs. Asaria, Brandt, Ellis, Gantous, Mounsey, Rival, Smith and Solomon. 57 participants were interactively engaged. Caring for Skin Cancer in the Aging Face in Family Practice was held June 4, 2016 at Sinai Health System, directed by Drs. Brandt and Adamson. Contributing faculty included Drs. Howard Bargman, Christian Murray and Lori Shapiro from Dermatology, and Drs. Asaria, Gantous, Solomon and Torgerson from our division. 32 participants, primarily family doctors and residents, attended.

Three traditional resident courses were continued. These included Soft Tissue workshops directed by Drs. Brandt and Alexander on November 30, 2015 and February 1, 2016. The popular Rhinoplasty Dissection workshop on April 18, 2016 was directed by Dr. Smith, assisted by Dr. Adamson.

Postgraduate Teaching and Mentoring

Our PGY4 residents have a one-month set rotation in aesthetic and reconstructive surgery. Divisional faculty who mentored our residents included Drs. Asaria, Conrad, Ellis, Rival, Smith, Solomon and Adamson. This year new resident and faculty guidelines for these rotations were developed by Dr. Adamson.

Drs. Adamson and Ellis continued as fellowship directors for the American Academy of Facial Plastic and Reconstructive Surgery (AAFPRS) fellowship programs, with commendable adjunctive participation from Drs. Asaria, Gantous and Smith, as well as other related specialties, to offer the broadest possible subspecialty training. Drs. Andrew Courson from Mayo Clinic and Jeffrey Jumaily from Boston University completed Drs. Adamson's and Ellis' programs. Dr. Courson has returned to a group practice in Houston and Dr. Jumaily is practicing in Toronto. Dr. Conrad also had a departmentalsponsored fellowship, his fellow this year Dr. Yazeed Alghonaim. Several members in our department also accept international surgeons for clinical observerships. These include Drs. Asaria, Conrad, Ellis, Rival, Smith, Solomon and Adamson.

Dr. Adamson presented his lecture on "Facial Plastic and Reconstructive Surgery for the dermatologist" to their residents as part of their core teaching program.

Divisional Activities

The division held its annual meeting at North 44 on May 16, 2016. Important issues discussed included continuing development of our academic mission through teaching and research. A confounding matter has been the ability of non-University Hospital based community surgeons to access Ethics Research Boards. Terms of Reference for the division were reviewed with a view to their being updated. The importance of properly managing the impactful role of social media, marketing and advertising in medicine have been reviewed so as to provide guidance to faculty regarding professional and ethical practices.

Association Activities

Dr. Andres Gantous continues as our Canadian representative on the AAFPRS Board of Directors. Dr. Asaria sits on the Emerging Trends and Technologies, CME, and Face to Face committees of the AAFPRS, and is a Guest Examiner for the American Board of Facial Plastic and Reconstructive Surgery (ABFPRS). Drs. Alexander and Mounsey are contributing written and oral exam questions to the ABFPRS. Dr. Brandt sits on the C.O.R.E. (Centralized Otolaryngology Research Efforts) Committee for research activities, representing the AAFPRS at the American Academy of Otolaryngology – HNS (AAO-HNS); he also sits on no fewer than five AAFPRS committees and is a reviewer for five journals.

Dr. Adamson continues in his role as President of the International Board for Certification in Facial Plastic and Reconstructive Surgery (IBCFPRS), taking leading roles in the board examinations in Washington, DC and London, England. He continues as Senior Advisor to the ABFPRS and is on the International Advisory Board of our specialties' primary journal, JAMA Facial Plastic Surgery. Many of our division members have been active as faculty speakers at numerous local, national and international association meetings.

Humanitarian Contributions

This year saw the inaugural Dr. Joseph Wong Smile China Project Lecture in Global Health Outreach on January 14, 2016. Dr. Jonathan Sykes, Clinical Professor at University of California Sacramento, who was a good friend and colleague of Dr. Wong's and who had participated on several Smile China missions, gave a presentation on humanitarian missions. The next day he spoke on cleft lip and palate repair at grand rounds. Dr. Wong's endowment also supported two residents to participate in humanitarian missions as noted below.

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Dr. Adamson's Face the Future Foundation had its fourth mission to Rwanda in February, 2016. The team of 10 included Dr. Gian-Marco Busato a PGY4 resident, as well as university surgeons from Johns Hopkins, Harvard, Baylor and Regensburg, Germany. Dr. Busato was supported by our department. Surgeries included congenital, traumatic and postablative facial reconstructions for children and young adults, including six free flaps.

The fifth Face the Future mission to Ulyanovsk, Russia in June, 2016 included seven team members. Michael Au, PGY4 resident, was supported by our department. More details of these missions can be found in the Humanitarian Activities Report elsewhere in this annual report.

Future Directions

Our division will look to continue our successful resident and CPD courses. Our PGY4 rotation will be further structured. Drs. Asaria, Brandt and Alexander are developing, with Dr. Adamson, a revised core curriculum and facial plastic surgery core examination. Our division members seek to engage more medical students and residents for elective rotations, and continue to accept international observers. We look forward to the participation of senior residents on our Face the Future humanitarian missions and encourage faculty to consider joining these missions. We will continue to seek a resolution to the challenges of REB approval for research projects for our faculty.

We look forward to collaborating with our departmental leadership and administrative staff to constantly improve our contributions to the academic mission of our division and department.



Teaching Hospital Reports



Michael Garron Hospital

Dr. Al Chiodo (Otolaryngologist-in-Chief)

HOSPITAL PROGRAMS

This year has seen many changes for our hospital. There has been a new name change and hospital structure. After a generous donation of \$50 million by the Garron family, the hospital was renamed the Michael Garron Hospital as part of our new Toronto East Health Network. Moreover, the Ralph and Rose Chiodo family donated a quarter million dollars toward the new Otolaryngology-Head and Neck Surgery clinic as part of the new hospital redevelopment, which is slated to start next year.

Not including the evening and weekend emergency visits, 5455 clinic visits were recorded for our department last year. In addition, this fiscal year has seen the growth of the Thyroid Diagnostic Assessment Unit. This unit is a multidisciplinary initiative joining together the specialties of otolaryngology-head and neck surgery and endocrinology. The Thyroid Diagnostic Unit was able to acquire an ultrasound machine through a patient donation, which now allows us to provide patients with needle biopsy services at the same time of their multi-disciplinary consultations. Surgically, we have been able to complete over 330 thyroid cases with about 220 carcinomas with the assistance of Drs. El Masri, Chiodo, Hubbard, Enepekides, Higgins and Davidson.

Our department divides its surgical services between outpatient and inpatient surgical services spanning the subspecialties of pediatric otohns, otologic surgery, sinonasal surgery, laryngology, facial plastic surgery and head and neck surgery. The addition of Dr. Hubbard, who is a fellowship trained otologist, to our full-time staff last year has allowed our department to offer patients in the TEGH catchment area with otologic surgery services including mastoidectomy and middle ear surgery. In our sinus surgery program, the purchase of a new imageguided system last year allowed us to continue to offer exacting sinus surgery to our patients. In our facial plastic surgery program, Dr. Smith has shifted his surgical focus to nasal reconstruction and is providing a major program for patient care and resident teaching.

Our inpatient volumes were over 500 cases last year. The majority of inpatient volumes consist of pediatric inpatient surgery and head and neck surgery. The bulk of the head and neck surgery arises from our thyroid program. Our day surgery volumes have been about 845 cases last year.

EDUCATION

a. Undergraduate Medical Education

Dr. Hubbard has continued to be the assistant director of undergraduate medical education with our university department. He continues to direct

the MMMD course and ASCM II courses for the university department. The hospital department is involved in courses at every level of undergraduate training. The Longitudinal Experience in otolaryngology-head and neck surgery, the DOCH II course, ASCM I and II, MMMD, Clerkship, the Longitudinal Integrated Clerkship and the Transition to Residency course are all actively taught by our department faculty. The OTOHNS clerkship at MGH/TEHN was established 4 years ago as a pilot project and because of its success, this communitybased clerkship model was rolled out across the city in other community sites. We have had over 15 elective and selective students this year including one student from Ireland and 2 students from Dubai. MGH/TEHN has consistently scored very high for rotation effectiveness for the clerkship.

b. Postgraduate Education

Our department has participated in the residency program since the early 1990's with regular rotations starting in 1999. Dr. Hubbard represents our department on the university department postgraduate committee. We have consistently had high rotation effectiveness scores and teacher effectiveness scores year after year. Residents continue to have high surgical volumes as primary surgeons in pediatric, sinus, otologic, endocrine and facial plastic surgeries. The otolaryngology-head and neck surgery resident continues to maintain a well attended resident clinic in community otolaryngology-head and neck surgery. Furthermore, we have had over 37 family practice residents rotate through our department clinics.

c. Continuing Professional Development

Our department has been actively involved in continuing education with department members giving presentations at the local and national levels. Dr. Hubbard was lead organizer for the CPD event 'Revolutionalize Vestibular Testing'. Drs. Chiodo and Hubbard have been the course directors with Dr. Chan for the Otolaryngology-Head & Neck Surgery Update, which is now into the 15th year. It has been an important national meeting for our specialty and was started at MGH/TEHN. Dr. Chiodo presented on competency based training with Dr. Campisi at the Otolaryngology-Head & Neck Surgery Update this year. In addition, Dr. Chiodo was honoured by the Canadian Society of Otolaryngology-Head & Neck Surgery in Charlottetown in June, 2016 as part of the 'Honouring Our Own' program. He presented the undergraduate, postgraduate and continuing education experiences at the Toronto East Health Network. In addition, he chaired the 'General Otolaryngology-Head and Neck Surgery Research Section'. Dr. Chiodo was also asked to lecture at Upper Canada College this year on the undergraduate medicine program. Furthermore, Dr. Oakley Smith continues to be the course co-director for the Rhinoplasty and Soft Tissue Course through the University of Toronto, which is also a nationally attended course.

REASEARCH INITIATIVES:

Dr. Hubbard published in The Laryngoscope this year with Drs. Papsin, Cushing and Gordon on characterization of retentive capacity of the subpericranial pocket in cochlear implants with and without pedestal. Dr. Hubbard also received a grant from the Barberian Fund to study the development of a vestibular simulator. Drs. Chiodo, Hubbard and El Masri are completing a study on institutionspecific risk of papillary thyroid cancer based on preoperative fine needle aspiration biopsy results in a community-based thyroid program. Another paper was recently presented at the Quality Improvement and Patient Safety Conference in Toronto on 24hour PTH monitoring post-thyroidectomy with a retrospective analysis of hypocalcemia risk and patient discharge preferences. Moreover, Dr. Chiodo is completing a 3 year review comparing community-based versus tertiary-based clerkship teaching.



North York General Hospital

Dr. Everton Gooden (Otolaryngologist-in-Chief)

The Division of Otolaryngology-Head & Neck Surgery at NYGH is staffed by four full time surgeons (Drs. Goldfarb, Gooden, Kandasamy and Shah) with expertise in Endocrine, Laryngology, Otology and Pediatrics. Dr. Michal Brandt has been providing locum coverage this past year to assist with the high volume of patients referred to our clinic.

Our ambulatory clinic provides a full range of otolaryngology services and is supported by 4 fulltime audiologists under the direction of Dr. Gina Oh. The clinic continues to participate in the Infant Hearing Program in partnership with the City of Toronto Public Health. Our new vestibular testing lab opened November 2015 providing full range of vestibular testing.

We continue to participate regularly in the Undergraduate Otolaryngology Teaching (ASCM and clerkship teaching) including the Transition to Clerkship Program and the Longitudinal Integrated Clerkship Program. In addition, many elective residents from the Family Medicine Program request rotations through our clinic and our evaluation scores have remained excellent.



Sinai Health System

Dr. Ian Witterick (Otolaryngologist-in-Chief)

In 2015, Mount Sinai Hospital (MSH) amalgamated with Bridgepoint Active Healthcare, and together with Circle of Care and the Lunenfeld-Tanenbaum Research Institute, formed Sinai Health System (SHS). The Mount Sinai Hospital and Bridgepoint Active Healthcare names remain the same under the banner of Sinai Health System. Sinai Health System has an integrated medical staff with a single Medical Advisory Committee with representation by physicians from both sites.

The President and CEO, Mr. Joseph Mapa and the Associate CEO and Chief Transformation Officer, Ms. Marian Walsh (former CEO of Bridgepoint Active Healthcare) will both be stepping down from their respective positions as of October 3, 2016. Following an international search, Dr. Gary Newton, currently Chief Medical Strategy Officer and Physician-in-Chief of Sinai Health System, will assume the role of President and CEO, effective October 3, 2016. A well respected physician leader, Dr. Newton served as the Head of the Division of Cardiology, University Health Network and Mount Sinai Hospital, from 2009 through 2013. He was appointed Physician-in-Chief at Mount Sinai Hospital in November 2013 and assumed his current role as Chief Medical Strategy Officer and Physicianin-Chief of Sinai Health System in January 2015.

Mount Sinai Hospital is an internationally recognized, 442-bed, acute care academic health sciences centre affiliated with the University of Toronto. Our hospital has been designated with Exemplary Status from Accreditation Canada and the first hospital in Canada to receive Magnet® status for nursing excellence and patient care. The Lunenfeld-Tanenbaum Research Institute consistently places in the top tier of biomedical research institutes worldwide.

The most recent numbers show 4,544 staff including 1,400 nurses, 2,702 students/trainees, 285 scientists/research trainees, 318 physicians and 1,265 volunteers. The hospital has 442 beds, delivered 7,000 babies, performed 16,483 surgeries, had 58,414 emergency visits, 741,486 ambulatory care visits, 27,467 admissions and performed 192,686 medical imaging investigations¹. SHS is Toronto's third largest centre for the surgical treatment of cancer

Mt. Sinai Hospital is in Phase 3 of Renew Sinai, a multi-year capital redevelopment project to expand and modernize the hospital. The Lobby Redevelopment and the new RioCan Food Hall are complete. As part of the renewal, new state-of-the-art surgical suites are planned on the 7th floor of SHS and the intensive care units would be moved to the existing OR suites on the 5th floor. Some of our existing otolaryngology-head & neck surgery clinic space will be temporarily relocated (anticipated in late 2017) to accommodate new ventilation systems along the emergency department driveway.

Our Faculty

The five full-time clinical faculty are Drs. Jerry Chapnik, Jeremy Freeman, Eric Monteiro, Allan Vescan and Ian Witterick. Part-time faculty include Drs. Ashlin Alexander, Yvonne Chan, Nitin Chauhan, Kris Conrad, Dustin Dalgorf, Taryn Davids, John de Almeida, Arnold Noyek, Xerxes Punthakee and Manish Shah. Dr. Alexander will be leaving to pursue a full-time job in Scarborough and we will be welcoming Dr.Vinay Fernandes and Dr. Robert Burke on as courtesy staff in the fall of 2016. In December 2015 we outfitted our out-patient clinics with an electronic medical record.

Dr. Monteiro has integrated seamlessly into SHS during his first year of practice and participates with Drs. Freeman and Witterick in a multidisciplinary head and neck oncology clinic at Princess Margaret Cancer Centre with Dr. Jolie Ringash from Radiation Oncology (who also has a crossappointment to our University department).

Drs. Taryn Davids and Manish Shah along with Speech Language Pathologist Mr. Tim Poon run multi-disciplinary voice clinics each month and Drs. Yvonne Chan and Iona Leung (Dentistry) continue to run regular Mouth Clinics for the management of patients with challenging mouth disorders. The multidisciplinary skull base clinic is running well, a collaborative effort between our department, neurosurgery (Drs. Gelareh Zadeh and Fred Gentili) and endocrinology (Dr. Rowena Rideout). We continue to have multidisciplinary endocrine interaction in our ambulatory clinic as well as endocrine tumour board rounds with three endocrinologists (Drs. Phil Segal, Paul Walfish and Afshan Zahedi).

We continue to see a large volume of general and subspecialty patients (endocrine, sinus, skull base, head & neck oncology, larynx and mouth disorders). The audiologists at SHS are first rate and deliver excellent audiologic diagnosis and management of complex audiovestibular problems. They are a provincial centre and resource for infant hearing screening. They are also very active in the education of our residents, medical students and audiology students from other centres. The hearing aid dispensary is running smoothly. Dr. Ranju Ralhan, PhD (Director of Research for our department) runs an active basic science research program in the development of biomarkers for oral cancer and thyroid malignancy. She collaborates extensively with our department and Dr. Paul Walfish (endocrinology). In addition, she has numerous collaborators across the GTA and worldwide (see further details in the SHS research report).

Dr. Vescan successfully defended his Master's thesis in September 2015 and Ms. Fatima Jessa is in Dr. Ralhan's lab will defend her Master's thesis in August 2016; both Master's degrees are through the Institute of Medical Science at the University of Toronto.

Education

Sinai Health System remains a popular rotation with residents and fellows and a very popular elective for University of Toronto and visiting medical students. We had a large number of international residents and observers come through our clinics and operating rooms this year. We continue to provide valuable offservice rotations for PGY1 residents in allied health specialties including Anesthesia, Pathology, Ophthalmology and Vision Sciences and Radiation Oncology. Our teaching evaluation and rotation effectiveness scores remain one of the best in the department.

The pilot Longitudinal Integrated Curriculum for the 2015-16 year will be expanded in the next academic year. Thank you to Drs. Vescan and Monteiro for providing excellent learning experiences for these clerks. Dr. Freeman mentored Drs. Jeffrey Blumberg and Caitlin McMullen as Head & Neck Oncology fellows. Both did their residencies in the United States and are continuing on their second year of fellowship at UHN and Sunnybrook. Drs. Witterick, Vescan and Monteiro mentored Dr. Christopher Chin as the Rhinology, Skull Base and Head & Neck Oncology fellow. Dr. Chin did his residency at Western University and will be starting practice in St. John's New Brunswick in July 2016.

Drs. Freeman and Witterick are on the steering committee of the 3rd World Congress on Thyroid Cancer scheduled for July 2017 in Boston, MA. Dr. Freeman organized the 14th Annual Morley Binstock University of Toronto-Mount Sinai

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Hospital Lecture in Head and Neck Oncology and Visiting Professor, Department of Otolaryngology-Head & Neck Surgery University of Toronto on February 19, 2016. The guest lecturer was Dr. Bryan McIver from the Moffitt Cancer Center in South Florida whose lecture was titled "Evaluating Thyroid Nodules in the Era of Molecular Markers".

Drs. Monteiro and Vescan continue to work on videos to educate patients on common otolaryngologic surgical procedures and Dr. Monteiro leads our quality and safety initiatives.

Awards

Congratulations to Drs. Vescan and Chan along with Dr. John Lee (St. Michael's Hospital) who were awarded the Colin R. Woolf Award for Excellence in Course Coordination at the Faculty of Medicine's Annual Education Achievement Celebration on May 11, 2016 for the Rhinology Update course (held in May 2015). In addition, congratulations to Dr. Vescan on his promotion to Assistant Professor this year.

Leadership

For the University department, Dr. Witterick has finished 4 years of his 5-year term as Chair of the University department; Dr. Vescan is doing an excellent job as Director of Undergraduate Medical Education, Dr. Yvonne Chan has organized an incredible number of high-quality continuing professional development courses and Dr. Jeremy Freeman continues to do a stellar job directing the Head & Neck Oncology Fellowship program. Dr. Vescan co-chaired an excellent annual meeting of the North American Skull Base Society in Phoenix Arizona in February 2016 and Dr. Witterick was named President-Elect of this Society. At the Canadian Society of Otolaryngology-Head & Neck Surgery annual meeting in Charlottetown, PEI in June 2016, Dr. Yvonne Chan was elected as Physician Resources Chair and Dr. Ian Witterick was elected as 2nd Vice-President Elect.

Advancement

Dr. Freeman, the SHS Foundation and a grateful family led by Mr. Arron Barberian organized the 4th

Annual Harry Barberian Memorial Dinner on May 5, 2016. Mr. Roberto Alomar of Blue Jays fame was the guest of honour. The funds are used to provide research scholarships to residents, fellows and faculty in the university department through a competitive peer-reviewed grant mechanism. We believe the most recent event raised in excess of \$100,000.

Other significant contributions to the department continue to include the Frederick Wax Family, the Joseph Sonshine Family, the Freeman Family, the Rabi Family and the Keith Ray Fund. Dr.Vescan received a generous donation over 5 years to support the Rhinology and Skull Base Program. Each year the Chapnik, Freeman and Friedberg Fund administered through the University department continues to significantly support residents and/or junior faculty pursuing a graduate degree. The Arnold M. Noyek O.C. Awards are scholarships to fund two students' teleHealth projects annually, one for a student in the Faculty of Medicine and another for a student in the Dalla Lana School of Public Health, University of Toronto.

Dr. Freeman is the Temmy Latner/Dynacare Chair in Head and Neck Oncology. Dr. Walfish is the Alex and Simona Shnaider Research Chair in Thyroid Oncology and the principal organizer and Co-chair of the Annual Mount Sinai Hospital Da Vinci Gala for thyroid cancer care and research in support of the Joseph and Mildred Sonshine Family Centre for Head and Neck Diseases at SHS.

Our department continues to excel clinically and academically. I am very grateful to our dedicated administrative staff, nurses and allied health professionals who help so much with our clinical, education and research endeavors. The Sinai Health System leadership has been very supportive of our programs and we look forward to working with the new President and CEO, Dr. Gary Newton when he assumes this position on October 3, 2016.

¹http://www.mountsinai.on.ca/about_us/images/m ount-sinai_fact_sheet-infographic.pdf/index.html

St. Joseph's Health Centre

Dr. Rick Fox (Otolaryngologist-in-Chief)

The Division of Otolaryngology-Head & Neck Surgery at St. Joseph's Health Centre (SJHC) is staffed by six otolaryngologists with special interest and expertise in neuro-otology, rhinology, facial plastic and reconstructive surgery, pediatric otolaryngology, and endocrine surgery.

Faculty members are Drs. Dustin Dalgorf, Rick Fox, Andres Gantous, Robert Josephson, Jack Kolenda and Ian Witterick. All members of the faculty hold appointments with the University of Toronto. Dr. Witterick continues to serve as Chairman, Department of Otolaryngology-Head & Neck Surgery, University of Toronto.

SJHC has maintained its tradition as a leader in the surgical and medical management of sinus and nasal disease. There are frequent visitors to the operating room to observe advanced sinus, rhinological, facial plastic and reconstructive techniques. Staff is involved with teaching university sinus and temporal bone courses, as well as resident preparation for Royal College exams. Otolaryngology, family practice residents and medical students have continued their rotations throughout the last academic year. They have always rated their time at SJHC to be an extremely rewarding experience with the large volume of varied cases. Rhinology fellows, and in some cases facial plastic and reconstructive surgery fellows, learn from our faculty and are involved in the education and training of residents.



St. Michael's Hospital

Dr. Jennifer Anderson (Otolaryngologist-in-Chief)

St. Michael's Hospital is in the midst of a major physical space renovation with a new patient care tower midway through construction at the corner of Queen Street East and Victoria Street. A significant amount of service decanting has occurred including moving the laboratories and several inpatient units. Unfortunately, the construction has not been without problems given the age of some of the infrastructure and merging new and old architecture. There was a major interruption of surgical services including a shutdown of the ambulatory operating rooms for several weeks in the winter after a flood. As a result, new operating room equipment for our service was required including a new endoscopic surgery tower and carbon dioxide laser.

The new building is anticipated to be complete in 2018 and will house state-of-the-art operating rooms, intensive care units and inpatient units. It is not clear whether this may impact our outpatient clinic area but the in-patient beds will be moving.

Our emphasis in clinical activity continues to focus in laryngology, rhinology/skull base, and endocrine related surgery. In laryngology, the addition of the outpatient laser (KTP) along with appropriate endoscopic equipment has facilitated the transition of a significant portion of laryngology surgical procedures from the operating room to the outpatient clinic. This has been very successful with improved access and safety in the delivery of specific procedures. The hospital has been very supportive of this activity and a recent capital acquisition will add two further endoscopy towers and a fourth stroboscopy unit to the clinic. The Voice Clinic continues to be a nationally recognized clinical and educational leader in voice disorders.

In 2016, a 5 year term chair in voice research was created; jointly held by the University of Toronto and St. Michael's Hospital. After an internal search, Dr. Jennifer Anderson was appointed as chair holder of the Nicole Muzzo Chair in Voice Research. The Chair is to promote voice research in a variety of disorders in conjunction with the strong clinical laryngology program.

The Nasal Physiology laboratory (Dr. John Lee, Director) is now completely functional with acoustic rhinomanometry, olfactory function and nitrous oxide testing. William To, our Research Assistant, was instrumental in getting the lab up and running and we are now accepting clinical and research patients.

The full time faculty at St. Michael's Hospital in our department include Drs. Jennifer Anderson, John Lee and Molly Zirkle (Fitzgerald Academy Director). Part time academic faculty include Drs. Al Chiodo, Taryn Davids, Jean Davidson, Ron Fenton, Andres Gantous, Theresa Holler, Anil Katyal, Richard Rival and Philip Solomon. Dr. Davids welcomed a third child this Spring, a daughter whom they named Noa.

Our department has more than 20,000 outpatient visits per year with more than 1,000 surgical procedures performed annually. St. Michael's Hospital continues to increase in activity overall with the changing landscape and demographics of the downtown core. In 2015–2016, there were 507,825 ambulatory visits, 3,977 students educated, 74,750 emergency room visits and 30,025 surgeries performed at St. Michael's Hospital.



Sunnybrook Health Sciences Centre

Dr. Joseph Chen (Otolaryngologist-in-Chief)

2015-16 has been a year marked by many opportunities for our department. To maintain our core mandate in in Head & Neck Oncology and Cochlear Implantation, the department sought to divest its primary/secondary activities (endocrine surgery and general otology) to improve surgical access by establishing new partnerships with the Women's College Hospital (WCH) and the Michael Garron Hospital (formerly Toronto East General Hospital). A recent Ernst & Young survey in surgical efficiency showed that the department leads in many quality metrics that allowed the department to maintain our surgical resources, while many other surgical sections realized reductions. Anticipating and adapting to change will remain a focal point in clinical care and teaching in the coming years.

Alignment with imaging based therapeutics and High Intensity Focused Ultrasound (HIFU) will serve as a new platform of clinical research in Head and Neck oncology for the near future. Recruitment of Trung Le, MD, PhD, and Andrew Dimitrijevic, PhD mark an important milestone in the expanding research initiatives of stem cell biology and electrophysiology in the cochlear implant program. A \$2 million gift from the Koerner Foundation and a series of smaller but significant donations have helped with the sustainability of the Sonja Koerner Inner Ear Regeneration Initiative.

The Cochlear Implant program has also improved its international profile in successfully chairing the 14th International Conference on Cochlear Implantation (aka CI2016) at the Sheraton Centre on May 12-14. 1700+ attendees were attracted to a rich scientific program that was lauded as one of the best in the history of this conference. The above marked a terrific send-off for Dr. Julian Nedzelski, whose illustrious career was highlighted by many pioneering work in the management of acoustic neuroma, facial nerve disorder and Meniere's disease. Most importantly, his legacy in the creation of the Ontario Cochlear Implant Program to help deaf Ontarians navigate the healthcare system in a regionalized care was identified as the defining accomplishment worthy of the 2016 award of the Order of Ontario. We wish him the very best in his retirement.

During this year, Dr V. Lin and Dr. A. Dabdoub were promoted to the level of Associate Professor, congratulations! Dr. J. Chen received an honorary position as the adjunct Professor at the University of Vienna. Dr. Trung Le and Dr. Andrew Dimitrijevic, PhD were recruited to enhance the cochlear implant program and to support our research programs; welcome! Dr. V. Lin was the recipient of the 2015 Teacher of the Year, and Residency Advocate of the Year, congratulations!

The department has received a total of \$650,000 in grants to support its various research initiatives.

The Hospital for Sick Children

Dr. Blake Papsin (Otolaryngologist-in-Chief)

The theme of my report again this year is the ongoing change occurring within our health care system and the resultant reformation of our practices and research activities at The Hospital for Sick Children (SickKids). After the significant organizational changes of the past few years there has been institutional stability at SickKids during this past year. The focus on accountability and care delivery is being practically applied with a number of quality initiatives being undertaken within our department. Great efforts are being expended to improve access to pediatric otolaryngology specialists and reduce wait lists for children requiring our care. The Otolaryngology – HNS department is one of the hospital's most efficient users of operating room resource and continues to be the beneficiary of resource reallocation based on our performance. This has only been possible as a result of the tremendous flexibility on the part of the departmental physicians and the strong work of our newly reorganized clerical and administrative team.

A major task this past year has been to undertake a needs assessment and determine how best to recruit a new pediatric Otolaryngologist – HNS for our department. This process has been enlightening and we were able to advertise and significantly advance the recruitment process. Our hope is to appoint a new partner in the next few months. This new recruit will help the current head and neck/airway consultants who are bearing an inordinate clinical load at present. It is hoped that our new recruit will both undertake independent research in this area and allow the current consultants to devote more time to their research.

The head and neck/airway portfolio also received a sizeable boost this past year with the establishment of the Jordan and Lisa Gnat Family and Bastable-Potts Chair in Otolaryngology-HNS at our hospital. This Chair was funded to encourage and support ongoing research in the non-otologic foci within our department. The Cochlear Americas Chair in Auditory Development was transferred and is now held by Dr. Karen Gordon who will continue to develop and support the department's otologic research.

Over the past year our team has benefitted from Dr. Theresa Holler's services as an Associate member of our department. Dr. Holler has helped establish a specialty clinic designed to introduce speaking valves to children with longstanding tracheotomies, shouldered a sizeable load of the primary/secondary surgical care in complex children, and taken on a number of the teaching activities within the department. As a result of her efforts, in addition to those of the other departmental members, we have seen an improvement in our departmental teaching scores. Undergraduate and post-graduate teaching remains an important focus of our department and we were overjoyed to see our efforts rewarded in this way.

The remainder of the consultant staff have continued to execute their academic and clinical activities prodigiously. In addition to providing superb clinical care, our departmental members have spoken across the province, country, and globe sharing best practices and the basic science research they have conducted here. Dr. Propst hosted the 6th Toronto International Pediatric Endoscopic Course and the 2nd Toronto International Open Airway Surgery Course at the Peter Gilgan Research and Leaning Tower with students from far and wide. He, Drs. Campisi, James and Cushing continue to teach widely and publish their work regularly. The work of Drs. Gordon and Harrison has also been expansive over the past year and is detailed in their independent laboratory reports.

The department at SickKids remains healthy and increasingly able to efficiently deliver high quality pediatric Otolaryngology-HNS care to Ontario's children in addition to fulfilling the academic mission of our university department. We are well positioned for another successful year.

Trillium Health Partners (The Credit Valley Hospital, The Mississauga Hospital and Queensway Health Centre)

Dr. Jeffrey Mendelsohn/Dr. Lorne Segall (Otolaryngologists-in-Chief)

The Division of Otolaryngology-Head & Neck Surgery at Trillium Health Partners comprises 10 members (Drs. Glen Beard, Yvonne Chan, Joe Chen, Janet Chung, Aman Grewal, Jeff Mendelsohn, Karim Nazarali, Lorne Segall, Adam Toth and Sandra Vojdovich).

We continue to be involved in undergraduate medical education at the University of Toronto. All 2nd year medical students of the University of the Toronto Mississauga Academy of Medicine (MAM) do their ASCM II teaching at Trillium Health Partners. In their third year, all students of the University of the Toronto Mississauga Academy of Medicine (MAM) do their clerkship rotations at the teaching clinic at Credit Valley Hospital. The teaching responsibilities are shared equally between all members of the division. Our division continues to score very well in the student evaluations.

Since June of 2015, residents in the Otolaryngology-Head & Neck Surgery program have rotated every three months at all our sites. I would like to thank Drs. Yvonne Chan, Janet Chung, Aman Grewal, Jeff Mendelsohn, Karim Nazarali and Adam Toth for agreeing to supervise the residents.

Our division is strong and well respected both internally and externally.



University Health Network

Dr. Ralph Gilbert (Otolaryngologist-in-Chief)

The Department of Otolaryngology-Head & Neck Surgery at UHN had another great year of clinical and academic accomplishments and continues to provide international leadership in Head and Neck Oncology/Reconstructive Microsurgery and Otology Neurotology.

Drs. de Almeida and Goldstein continue to lead our robotics program with a rapidly developing expertise in trans-oral robotic surgery. Dr. de Almeida also collaborates with Drs. Witterick and Vescan in our institutional endoscopic skull base program.

Our Otology/Neurotology program continues its leadership in the management of vestibular disorders and innovations in care of patients with vestibular disorders. The Hearing and Balance Centre along with our Munk Hearing Aid Centre continues to provide strong clinical and academic programs. Dr. Pothier is providing leadership and clinical and academic innovation in minimally invasive ear surgery and is a highly sought after international speaker.

The Head and Neck Group including Drs. Brown, Chepeha, de Almeida, Gilbert, Goldstein, Gullane and Irish continues to be extremely productive both academically and clinically. Dr. Irish just completed leading a very successful International Head and Neck Meeting run by the American Head & Neck Society in July 2016. He positioned a number of Canadian keynote speakers who provided great breadth to this international meeting. In addition he has been elected Vice-President of the American Head and Neck Society and will serve as its President in 2017. Dr. Gilbert is the president-elect of the International Academy of Oral Oncology, beginning his term in May 2017. The group has been extremely productive internationally with invited presentations and keynotes at the American Head & Neck Society, and numerous other national and international meetings. Dr. Gullane was given a life-time achievement award by the Canadian Society of Otolaryngology-Head & Neck Surgery.

From a research perspective the group has been very active and successful in CIHR grants; of note is the GTx collaborative group under Jon Irish's leadership. Drs. Goldstein, de Almeida and Chepeha continue to lead our outcomes and translational research program.

The department's undergraduate, postgraduate and fellowship programs continue to provide excellent training. The department is an active participant in the university department's divisional fellowship offering 4 clinical and 1 research fellowship position every year. These positions are highly sought after because of the strength of the clinical program at UHN.

The department continues to be indebted to our many donors as well as the Princess Margaret Foundation and the Toronto General/Toronto Western Foundation whose contributions allow us to continue the legacy of leadership in Otolaryngology-Head & Neck Surgery.

The department is also indebted to our support staff under the remarkable leadership and skill of our manager Jamie Chong. We all look forward to another productive and enjoyable year.

Research Team Reports

Departmental Research Team Reports



The Hospital For Sick Children

OtoSim[™] Lab Paolo Campisi, Vito Forte

OtoSim[™] has enjoyed another successful year thanks to the ongoing efforts of its team members and collaborators. Dr.Vito Forte is the acting CEO and lead of the 'Hammers and Nails' program at the Hospital for Sick Children. This has resulted in a successful collaborative team with engineering students.

Product development remains a key component of OtoSim Inc. such as the introduction of advanced self-learning software and remote teaching capabilities. Modified simulators that can be applied to smart phones are currently in development and will be piloted in an education study funded by a Harry Barberian Scholarship.

A list of recent and current projects includes:

Objective Evaluation of Otoscopy Skills amongst Primary Care and Otolaryngology Residents. Poster Presentation, Canadian Society of Otolaryngology – Head & Neck Surgery Annual Meeting. Charlottetown, PEI, Canada. Presenter(s): Oyewumi M, Brandt MG, Carrillo B, Atkinson A, Iglar K, Forte V, Campisi P. ***Awarded 2nd prize for the Poster Competition.

Evaluation of an ophthalmoscopy simulator to teach normative anatomy and fundoscopy skills to paediatric residents. To be presented at the International Conference on Medical Education. September 2016, Niagara Falls, Ontario, Canada. Presenter(s): Kouzmitcheva E, Ali A, Carrillo B, Atkinson A, Forte V, Campisi P, Grover S, Berenbaum T,Yeh EA.

Pediatric Voice & Airway Research Lab Paolo Campisi, Vito Forte, Evan Propst

The Paediatric Voice Laboratory has been involved in various voice outcomes-based research studies. The laboratory collaborates with Jennifer Allegro and Laurie Russell, speech-language pathologists and Kim Simpson, research nurse. Recent and ongoing projects include:

Voice therapy for the management of vocal fold nodules in children. This was a multi-centre (Toronto, Boston, Milwaukee, and Philadelphia) randomized-controlled trial comparing two types of voice therapy. The data collection is complete and the study is being prepared for publication. This study was funded by an NIH grant.

Canadian JoRRP surveillance study. Data collection for the 2012-2017 time frame will be initiated this year. The national prevalence and incidence of JoRRP 10 years after the introduction of HPV vaccination strategies will be assessed.

Cochlear Implant Research Lab Karen Gordon, Blake Papsin

The Cochlear Implant Laboratory at the Hospital for Sick Children continues to investigate auditory development and plasticity. We ask: 1) What aspects of auditory and vestibular development are arrested in children with hearing loss; 2) What changes in the auditory and vestibular system occur during the period of deafness; and 3) To what extent can auditory and vestibular plasticity and development be promoted by cochlear implant use? We are also interested in innovations in cochlear implant design and programming which seek to improve the resilience of the device as well as to preserve residual hearing and binaural cues. Our work is supported by research funding from the Canadian Institutes of Health Research along with the Cochlear Americas Chair in Auditory Development and generous donations. Specific hypotheses which stem from these questions are tested through a number of studies currently underway.

Our team includes Carmen McKnight, our research project manager, and we recently welcomed Christina Lavallee, our new research project coordinator. Dr. Hiroshi Yamazaki completed his fellowship in February 2016, Joshua Gnanasegaram is preparing to defend his M.Sc. thesis in late July 2016 and Dr.Vijayalakshmi Easwar is expected to complete her post-doctoral fellowship at the end of this summer.

Dr. Yamazaki worked with Dr. Easwar to explore hemispheric differences in responses to tone bursts and clicks presented monaurally and binaurally to children and adolescents with normal hearing. Importantly, tonal stimulation showed increased responses in the right auditory cortex than broad band clicks in young children. Decreases in tone burst evoked peak activity occurred with age in the left but not right auditory cortex, suggesting increased role for the right hemisphere in processing tone bursts throughout childhood and adolescence. These results were most recently presented at the 14th International conference on cochlear implants and other implantable technologies, Toronto, Canada, May 11-14, 2016.

Dr. Easwar is a clinical audiologist. During her postdoctoral fellowship in the lab, she compared responses to click stimuli in children with normal hearing to children who received bilateral cochlear implants simultaneously at young ages. Main results demonstrated the preservation of right hemispheric dominance as found in the normal hearing peer group but several abnormalities in cortical processing were also revealed: 1) reduced contrasts between unilaterally and bilaterally presented stimuli; 2) reduced contralateral aural preference; and 3) reduced change in cortical activity with changes in binaural timing or level cues. These data are in preparation for publication. Dr. Easwar also used the datalogging capabilities of recent cochlear implant speech processors to assess children's listening environments. She found that children are in noisy environments daily and for longer than adults. They are also exposed to music most frequently in their early years. She has also explored the role of listening exposure to speech perception outcomes. These results were published earlier this year and were also most recently presented at the 14th International conference on cochlear implants and other implantable technologies, Toronto, Canada, May 11-14, 2016.

Joshua Gnanasegaram has worked in collaboration with Dr. Sharon Cushing, and with present otolaryngology fellow, Dr. William Parkes, to investigate whether the vestibular system can be evoked by electrical stimulation from a cochlear implant in children. Results have been encouraging, revealing evoked responses in a proportion of children with and without residual vestibular function and improved perception of vertical with cochlear implant stimulation. Both Dr. Parkes and Mr. Gnanasegaram have been able to present this work at international conferences. A manuscript outlining the results at this stage is being prepared for publication.

Melissa Polonenko, a clinical audiologist, continued to make great gains in her PhD thesis work. She is studying the use of bimodal hearing (acoustic hearing in one ear and electrical hearing through a cochlear implant in the other). She has received an impressive 10 major studentship awards. Over the past year, she received the Ontario Student Graduate Award as well as the prestigious SickKids Scientist-Training Program Award. Most recently, her abstract was chosen for podium presentation at the Gordon Research Seminar.

We have enjoyed the opportunity to work with 4 summer students: Joshua Baitz (innovative recording of vestibular myogenic responses); Hayley Wilson (cortical activity in unilateral deafness); Mark Sandor and Jonah Gorodensky (binaural hearing in children with hearing loss). We continue to have important collaborations both locally, with Robert Harrison, Sharon Cushing, Adrian James, Sam Doesburg, James Rutka, Sandra Trehub, Susan Blaser, and Frank Russo, nationally, with Sam Doesburg and internationally, with Robert Cowan and Richard van Hoesel.

The past year has been very productive: 11 publications came out or are in the press. Between this summer and last, we collectively presented over 20 abstracts at international meetings and gave more than two dozen invited talks internationally.

Some highlights from the past year include: Invited talk at the Gordon Research Conference (Gordon); 6 presentations at 14th International conference on cochlear implants and other implantable

RESEARCH TEAM REPORTS

technologies, Toronto, Canada; 11 student awards (Polonenko, Easwar, Gnanasegaram, McCann); 2nd Cochlear Americas Chair (Gordon).

Auditory Science Lab Robert V. Harrison

The Auditory Science Laboratory has been associated with the university Department of Otolaryngology-Head & Neck Surgery over three decades. Our mission is to increase our knowledge about the complex biological mechanisms that allow us to hear and to understand the exact nature of hearing deficits. This new knowledge may lead to improved strategies for prevention, diagnosis and remediation of hearing disorders.

We use a wide range of research tools to explore the structure and function of the pathological inner ear, as well as the developmental plasticity of the auditory brain. Our electrophysiological techniques include measurement of single neuron response properties in auditory midbrain and cortex. We also use evoked potential and otoacoustic emission research in human subjects and in animal models.

In our anatomical studies, we make histological evaluations of the inner ear with light and electron microscopy. In recent years we have mastered corrosion cast studies of vascular structures in the inner ear. Note the image below of the cochlear vasculature in a mouse model. We make extensive use of immuno-labeling techniques to visualize cochlear structures and toe assess neural activity patterns in central auditory pathways. A continuing research interest over the past year has been an investigation of the damage to cochlear capillary networks (e.g. stria vascularis) resulting from cytomegalovirus (CMV) infection. This work is part of thesis research by our PhD candidate Mattia Carraro, and our project is in collaboration with Dr. Albert Park at the University of Utah. Mattia's work was supported in part by a Barberian scholarship award. Mattia has also introduced some novel imaging techniques, including laser thin sheet microscopy, and has refined the method to allow whole cochlear specimens (mouse) to be viewed in detail without bone removal. In the examples shown below individual spiral ganglion cells, cochlear vasculature can easily be recognized.

This past year has also been productive for our project manager Jaina Negandhi. She has been working on projects ranging from recording ABRs in animal models as well as studying auditory midbrain activity patterns with c-fos labeling.

In this last year, our research has resulted in publication of a number of peer-reviewed papers ranging from studies of cochlear vasculature in animal models of hearing loss, to a review of cochlear implant patients diagnosed with auditory neuropathy spectrum disorder (ANSD). Harrison has also contributed to the latest edition of The Comprehensive Handbook of Pediatric Audiology (Plural Publishing).

A sincere thank you to all those associated with the Auditory Science Laboratory; we have had a productive year.



Capillary network of the mouse cochlear stria vascularis (scanning electron image of a corrosion cast specimen).

University Health Network

Guided Therapeutics (GTx) Research Jonathan Irish, David Goldstein, Michael Daly

The GTx Surgery Program, part of UHN's Techna Institute continues to accelerate the translation of novel image-guidance technology from pre-clinical laboratory work into the operating room, improving the use of image guided technologies in surgery. The multi-disciplinary GTx team developed a core technology platform which integrates threedimensional imaging, surgical navigation, robotics and molecular imaging to provide precise intraoperative visualization of tumours and surrounding healthy tissue. The GTx program consists of two main physical resources: the GTx lab, located in the Princess Margaret Cancer Research Tower and a unique operating room, dedicated to research, the GTx Operating Room (GTx-OR), located within the clinical ORs at the Toronto General Hospital. The in-room computed tomography (CT) imaging capabilities of the GTx-OR, consisting of the Siemens Somatom Flash CT and the Siemens Artis Zeego Cone Beam CT, are under evaluation in a growing number of clinical studies which includes head & neck, skull base, orthopaedic, thoracic, vascular and cardiac patients.



The GTx Sarcoma Research and Surgery Team: a collaboration between UHN and Sinai Healthy System.

From benchtop to bedside, 2015 marked a successful year in translating the use of the GTx navigation and planning platform to the OR, with first-in-patient procedures for sarcoma surgery executed for a clinical trial lead by Dr. Jay Wunder. The GTx platform was further developed for patients with benign extremity bony tumors, a stepping stone toward more complex pelvi-sacral sarcoma surgeries. This work will also translate to head and neck clinical trial with guided osteotomies in maxillary and mandibular surgery. Lab work with phantom models and cadavers have already been initiated and first-in-human work is about to begin. Innovations developed and tested in the first clinical trials included: novel tool design and workflow to allow seamless automatic registration leveraging on the intra-operative robotic cone beam CT; a dynamic, real time intuitive color map that helps predict, visualize and control the distribution of Target Registration Errors; and a gesture control device called 'Leapy' which enables a gloved surgeon to manipulate, twist, turn and scroll through CT/MRI navigation images for best visualization while remaining sterile.

Notable achievements for the GTx Surgery Program include further progress made in fluorescence-guided surgical studies. Heck & Neck and Thoracic are working on new clinical applications for existing multifunctional nanomedicines, setting the stage for first-in-human studies involving novel multimodality contrast agents. When integrated with PET/computed tomography and fluorescence imaging, these particles accurately detect primary tumor and metastatic lymph nodes in head and neck cancer, and provide real-time visualization of lymphatic drainage to identify unknown primaries and recurrent tumors. The tumor-specific activation of fluorescence further enables image-guided surgery and increases the potential of localized ablation of disease while sparing the surrounding healthy tissue. Successful findings in 2015 on two such agents: porphysomes (collaboration with Dr. Gang Zheng)

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and liposomes (Christine Allen, Jinzi Zheng, David Jaffray) showed promising translational potential of these nanoparticles to enhance both diagnosis and therapy of head and neck cancer, and were featured as the cover stories in journals of Clinical Cancer Research (N. Muhanna, et al., 2015) and Advanced Healthcare Materials (N. Muhanna, et al., 2015).

The GTx Program At-A-Glance:



Head & Neck Translational Program Fei-Fei Liu

The Head and Neck Cancer (HNC) Translational Research Program at the Princess Margaret strives for a future where HNC can be cured without toxicity. This program has three main goals:

- 1. To understand HNC biology at the molecular, cellular, and tumour levels;
- 2. To elucidate the molecular and genetic bases of treatment toxicities in response to radiation, with or without chemotherapy; and,
- 3. To train young scientists and physicians in the scientific pursuits of understanding HNC.

The year 2015 marked the opening of the Joe Finley Centre for Head and Neck Cancer Research at the Princess Margaret. Our research team comprises of over 80 clinicians, scientists and research personnel, collectively working on several projects, including: tumor initiating cells, genetic determinants of outcome, biomarkers & novel drug discovery, proteomic studies, treatment of human papilloma virus associated oropharynx cancer, and prognostic value of imaging-omic data.

This year has seen numerous advances in HNC research. In 2015, we published 13 peer-reviewed publications in leading scientific journals, with an additional 14 peer-reviewed publications in the first half of 2016 alone. Our team, in collaboration with The Cancer Genome Atlas, published a landmark article in one of the leading scientific journals, Nature. This article described the comprehensive genetic analysis of a large group of Head and Neck Squamous Cell Carcinomas (HNSCC), finding key genetic features related to tumour development, and importantly, identifying novel targets for personalized

treatment. Dr. Scott Bratman, who was recruited to the Princess Margaret in 2014, also led an investigation of the association between HPV genotype and survival in HNSCC, published in JAMA Oncol in early 2016. This study not only provides key insight into the biology of these tumours, but is also expected to significantly change clinical practice by informing trial development for patients with HPV-associated HNC. In addition, Dr. Fei-Fei Liu's group had published a study in Oncotarget that built upon previous research to identify and validate a 4-microRNA signature predictive of distant metastasis risk in Nasopharyngeal Carcinoma (NPC). Once this observation has been further confirmed clinically, this information could be used by oncologists to personalize the treatment of future NPC patients based on their risk (or lack-thereof) of developing distant metastases; a major cause of death in patients with NPC.

One of the highlights of our program was the key study led by Dr. Brian O'Sullivan, published in J Clin Oncol, which detailed advancements in tumour stage and prognostic groups for Human Papillomavirus (HPV)-associated Oropharyngeal Carcinomas (OPC), refining the way we categorize and treat these tumours. This study, along with Dr. O'Sullivan's previous work to risk categorize OPC, which was published in the J Clin Oncol in 2013, aided in the development of a current NCI-US de-escalation clinical trial for HPV-associated OPC, whereby patients with these tumours are offered de-escalated treatments, in order to mitigate treatment toxify (NCT02254278).

Neurotology and Vestibular Research David Pothier, Philip Gerretsen and John Rutka

The neurotology/vestibular research program at UHN continues to be the flagship program in Canada for the assessment of the dizzy patient. Much of what has been accomplished is the result of a continued funding from Ms. Debbie Hertz to the Hertz Multidisciplinary Neurotology Clinic which has allowed for us to provide additional vestibular rehabilitation therapy to those in need.

Working in conjunction with the UHN Center for Advanced Hearing and Balance Testing we have continued our clinical research in i) High velocity/acceleration VOR activity, ii) the effects of catastrophization in chronic balance disorders in conjunction with the Department of Psychiatry, iii) neuroplasticity for vestibular loss and iv) the assessment and prevention of ototoxicity in a structured multidisciplinary program.

Dr. David Pothier continues his pioneering work in endoscopic ear surgery and continues to be a highly sought after speaker promoting this exciting technology internationally. He is a founding member of the International Working Group in Endoscopic Ear Surgery (IWGEES). He is continuing his study of endoscopic tenotomy surgery for the treatment of incapacitating Meniere's disease.

David Pothier and his co-editor Jane Lea have put the finishing touches on a Vestibular Disorders Book that is nearing completion for publication. Chapters have been written by world experts and it is anticipated that this book will be a seminal achievement in our understanding and appreciation of the vestibular system. Chapters have been written on Vestibulotoxicity and Vestibular Rehabilitation Therapy for the book by UHN authors.

We have also continued our research looking into i) comparing and defining the role of the vestibular head impulse test (vHIT) to caloric and scleral coil testing for VOR activity, ii) Advanced tympanometry in the diagnosis of Meniere's Disease, iii) the role of the otolithic organs in the development of positional vertigo not arising from the posterior semicircular canal.

The academic year 2015–2016 saw a seismic number of publications from our unit through the industry of our fellows (specifically Drs. Ilan and Syed).

Despite our formal retirement as mentors for the TWJ Foundation we continue to have a full complement of clinical fellows and observers who wish to advance their knowledge of the vestibular system.

Head & Neck Surgical Research David Goldstein, Ralph Gilbert, Patrick Gullane, Dale Brown, Jonathan Irish and John de Almeida

Research at the University Health Network takes place across three sites, with the majority of research occurring between the Toronto General Hospital and Princess Margaret Cancer Center. The two major research programs are the head and neck oncology program and the otology/neurotology program. The surgeon investigators for the head and neck oncology program have affiliations with both the Ontario Cancer Institute and the Toronto General Research Institute. The research program is a multidisciplinary program with local, national and international collaborations. This academic year has seen the continuation of weekly future directions meeting with representation from surgical oncology, medical oncology and radiation oncology. The goal of these meetings is to develop trials for novel treatment approaches to head and neck cancer.

The research program has 4 major themes:

- 1. Guided therapeutics program whose work is covered in a separate report;
- 2. Clinical outcomes research in head and neck oncology and reconstructive surgery. Outcomes research includes clinical trials, and prospective and retrospective observational studies in mucosal, salivary gland, endocrine and skull base neoplasms. In addition, there is a major focus on evaluation of outcomes with microsurgical reconstruction and functional outcomes including quality of life assessment;
- 3. Basic science and translational research program is a multidisciplinary program that involves radiation and medical oncology, pathology, and basic science labs. Research includes proteomics, genomics, stem cell research, and molecular epidemiology. A large focus of the program is on the identification and assessment of biomarkers in the treatment of head and neck cancer;
- 4. Health services research with a focus on patterns of practice and volume outcome studies in head and neck oncology.

Resident and fellow research is a major component of the research program. There have been a number of residents and fellows who have been mentored and supported by members of the head and neck surgery research program. In the 2015-2016 academic year there have been approximately 53 peer-reviewed publications and book chapters published. The head and neck research program has had the following notable research within the past year:

- Recruitment to the ORATOR clinical trial comparing transoral robotic surgery (with or without adjuvant radiation) to chemoradiation or radiation for HPV related oropharynx cancer
- Development of a radiolucent mouth retractor and evaluation for use in image guidance during transoral robotic surgery
- Evaluation of endoscopic versus open surgical techniques for nasopharyngectomy and evaluation of a novel approach to reconstructing nasopharyngectomy defects with free tissue transfer
- Evaluation of the impact of post-operative infection and inflammation on recurrence and survival in patients with oral cavity cancer and larynx cancer
- Development of a run-in/window of opportunity trial of immunotherapy in head and neck cancer patients
- Completion of building a fully annotated oral cavity cancer tissue microarray on over 400 patients
- Evaluation of the invasive front in oral cavity cancer and development of digital research pathology slide viewing system
- Cost-utility studies on nerve monitoring for thyroidectomy and banning of tanning beds in youth
- Development of a clinical trial aimed to increase detection of occult malignancies in oropharynx cancer using a transoral robotic approach with the goal to reduce radiotherapy volumes
- Development and recruitment for a study investigating active surveillance in patients with low risk papillary thyroid cancer

- Evaluation in changes in incidence in head and neck cancer in Ontario using population based (ICES) data
- Various reconstructive surgery projects evaluating outcomes with different reconstructive techniques
- Development of a clinical and translational assessment of neck fibrosis in patients undergoing head and neck cancer treatment
- Development of an online research project development and tracking database

Sinai Health System

Rhinology/Skull Base Research Ian Witterick, Allan Vescan, Eric Monteiro and John de Almeida

There are ongoing clinical research projects in rhinology and the skull base program. These include:

- Development of quality indicators for chronic rhinosinusitis
- Virtual reality simulators (Neurotouch) with validation trials
- Virtual reality sinus simulators to establish learning curves
- Validation of the skull base inventory quality-oflife instrument
- A ten year outcomes study of non-squamous cell sinonasal malignancies

Education research continues with the OtoSimTM in undergraduate medical education as well as the development of quality and safety measures for our specialty.

Head & Neck Oncology Research Ranju Ralhan, Ian Witterick, Paul Walfish, Jeremy Freeman, Allan Vescan and Eric Monteiro

Our research interests primarily focused in the areas of translational research in applying proteomic findings and novel digital imaging technologies to development of biomarkers based algorithms that can be used in early detection, risk assessment, and management of oral cancer and precancers, as well as in community screening. The goal of this knowledge translation research has been to develop better cancer diagnostics based on subcellular quantitation of biomarker proteins expression in oral premalignant lesions for stratifying their risk of cancer development that brings fundamental change to the management of these patients. Our biomarkers can identify head and neck lesions that have a high risk of becoming cancer, permitting more effective and less traumatizing treatment.

- 1. Proteomics based biomarkers for predicting oral pre-malignant lesions at high risk of cancer development. Our most significant contributions have stemmed from our biomarkers research using oral pre-malignant lesions leading to development of new biomarkers to predict the risk of malignant transformation in patients with oral lesions. Currently, we are focusing on developing an Oral Cytology Test using oral cytosmears for protein biomarkers analyses for widespread use of our technology in dental clinics for patient care.
- 2. Prediction of recurrence-free survival using a protein expression-based risk classifier for head and neck cancer. Head and neck cancer prognostic biomarker panel has also been identified using tissue proteomics and independently validated in Canada and India for their global use for predicting the risk for recurrence of the disease in oral cancer patients (Chauhan SS et al., Prediction of recurrence-free survival using a protein expression-based risk classifier for head and neck cancer. Oncogenesis. 2015;4:e147. doi: 10.1038/oncsis.2015.7). As a powerful predictor of 3-year recurrence-free survival in head and neck cancer patients, the newly developed biomarker panel risk classifier will facilitate patient counseling for personalized treatment.
- 3. Developing novel molecular therapeutics for oral cancer. Two novel small molecule inhibitors identified in high throughput chemical screens have being investigated for their therapeutic efficacy, drug targets, mechanism of action using in vitro, in vivo, and clinical oral cancer samples for development of targeted therapy for oral cancer (Srivastava et al., Anticancer activity of Pyrithione Zinc in oral cancer cells identified in

small molecule screens and xenograft model: Implications for oral cancer therapy. *Molecular Oncology* 2015. 9 (8), 1720–1735; Guodong et al., ER maleate is a novel anticancer agent in head and neck cancer cells: Implications for cancer therapy. *Oncotarget* 2016 Feb 26. doi: 10.18632/oncotarget.7751).

Knowledge translation of our biomarkers into clinical settings for patient care has unraveled gaps in understanding of molecular mechanisms implicated in head and neck cancer development. Intense efforts are focused on unraveling molecular mechanisms involved in malignant transformation of oral epithelial dysplasia using indigenously established in vitro and in vivo experimental models to get deeper insight into development and progression of oral cancer.

Endocrine Oncology Research Ranju Ralhan, Paul Walfish, Jeremy Freeman, Ian Witterick, Allan Vescan and Eric Monteiro

The endocrine oncology research laid major thrust on translational research aimed at applying proteomic findings and digital pathology to development of biomarkers based algorithms for improving thyroid cancer diagnostics.

Clinically integrated diagnostics for thyroid cancer is being developed with four major themes:

- 1. Use of protein biomarkers for predicting aggressive thyroid cancers.
- 2. Molecular signature for distinguishing benign from malignant thyroid nodules in ultrasound guided fine needle aspiration biopsies to improve surgical selection.
- 3. Biomarker based selection of aggressive thyroid cancer patients for immunotherapy.
- Reference clinical database set up for cataloging the clinical course in different subtypes of thyroid cancer and correlating pre-operative FNA cytology with final surgical pathology.
- 1. Histology and digital pathology based biomarker panel test for predicting aggressive thyroid

cancers. Using proteomics and immunohistochemistry, our laboratory identified protein biomarkers that are differentially expressed in thyroid benign tissues and cancers. Our results demonstrated the clinical significance of increased nuclear Ep-ICD (i.e. intra-cellular domain of EpCAM) in aggressive thyroid cancer tissues. Interestingly, loss of membranous ALCAM and EpEx (extracellular domain of EpCAM) correlated with progression of disease and predicted poor prognosis in thyroid cancer patients. A digital pathology platform is being developed based on image analysis of immunostained biomarkers to derive a robust algorithm for predicting aggressive thyroid cancers.

2. Thyroid US-FNAB biomarker panel test. It is of critical clinical importance to accurately select for surgery thyroid nodules at risk for malignancy and avoid surgery on those that are benign. Using alterations in sub-cellular localization for seven putative biomarker proteins (identified by proteomics), we defined a molecular signature which could distinguish benign from malignant nodules to assist in future surgical selection by FNAB (Ralhan et al., Immunohistochemical Subcellular Localization of Protein Biomarkers Distinguishes Benign from Malignant Thyroid Nodules: Potential for Fine-Needle Aspiration Biopsy Clinical Application. Thyroid. 2015 Nov;25(11):1224-34). Our molecular signature had high efficiency for distinguishing benign from malignant thyroid nodules and could improve surgical selection for thyroid cancer among indeterminate nodules. Further validation in prospective pre-operative FNAB is in progress for its clinical application. Thus, using surgical pathology and preliminary FNAB, this panel of protein biomarkers is being validated for clinical application to improve presurgical selection of thyroid nodules at risk for malignancy. This is of paramount importance in not only avoiding unnecessary surgery on benign nodules with its associated morbidity but also in reducing healthcare costs through selection for surgery those nodules at risk for malignancy.

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- 3. Programmed Death-Ligand 1 Overexpression Predicts Poor Prognosis in Papillary Thyroid Cancer (PTC) and its Variants. Programmed death ligand 1(PD-L1) expression on tumor cells is emerging as a potential predictive biomarker in anti-PD-L1 directed cancer immunotherapy. We evaluated the prognostic potential of PD-L1 in PTC and its variants and determined whether PD-L1 represents a therapeutic target in aggressive or metastatic PTCs that could be amenable to antibody-based immunotherapy. Our findings showed that PD-L1 expression in tumor cells correlates with aggressive metastatic PTC and shortened survival thereby favoring the possibility that anti PD-1/ PD-L1 axis immunotherapy could be a potential target for the treatment of advanced refractory PTC (Chowdhury et al., Programmed death-ligand 1 overexpression is a prognostic marker for aggressive papillary thyroid cancer and its variants. Oncotarget 2016 Apr 12. doi: 10.18632/oncotarget.8698).
- 4. We have established one of the largest clinical databases that have been developed for cataloging the clinical course in different subtypes of thyroid cancer. This database will also be useful for comparing the current pre-operative ultrasound and FNAB cytology based diagnosis with the final surgical pathology. It will therefore serve as a unique invaluable resource for comparative evaluation of new molecular diagnostic techniques with the current cytology based diagnostics to improve future surgical selection of patients for hemi-thyroidectomy vs total thyroidectomy and distinguishing benign from malignant thyroid nodules by pre-operative FNAB techniques.

St. Michael's Hospital

Voice and Upper Airway Lab Jennifer Anderson

Two projects were successfully executed this year in conjunction with the voice laboratory. The first was a combined project with faculties of music and medicine on the effects of external vibration on voice in trained singers. This was a randomized controlled study with 27 study subjects and is in the manuscript preparation phase. The results will be presented at the combined PAVA and fall voice meeting in October 2016.

The second project was the development of a novel microlaryngeal surgery simulator (with porcine larynges) for teaching and competency assessment. Drs. Theresa Holler and Jennifer Anderson are coinvestigators with Dr. Yelda Jozaghi, one of our residents participating in the project. Two lab sessions with 18 trainees were held and the project is currently in the data analysis phase.

Dr. Dulani Mendis, the graduating laryngology fellow, had retrospectively reviewed laryngeal trauma secondary to sporting injuries in patients presenting to St. Michael's Hospital Voice Clinic over a ten year period. This was presented at the CSO meeting in Charlottetown and the manuscript has been submitted for publication.

Grants 2015-2016

Validation of a Novel Microlaryngoscopy Simulator and Assessment AFP (Alternate Funding Plan) Innovation Grant \$10,950.00 Dr. Theresa Holler, Dr. Jennifer Anderson

2016 Education Research

Investigating Organizational Drivers of Resident Fatigue

AFP Innovation Grant \$21,972.00

Investigators: Drs. Julie Maggie, Najma Ahmed, S. Edwards and Molly Zirkle

This study seeks to identify the organizational influences that drive and mitigate fatigue in residents rotating through three distinct units within a large academic health sciences centre. Using text analysis, interviews, and ethnographic observation, we will conduct an institutional ethnography on resident fatigue in three units located in a large urban academic-teaching hospital. The findings and their dissemination, locally and nationally, will serve as an important step in the evolution towards comprehensive and contextually appropriate fatiguemanagement strategies.

Rhinology Research John Lee

2015-2016 continued to be a year of growth in rhinology research at St. Michael's Hospital. The most exciting news is that the Nasal Physiology Lab has now acquired a portable nasal nitric oxide (nNO) detector. Combining this with our airflow and olfaction testing, we are able to comprehensively evaluate various sino-nasal conditions in patients being seen in the rhinology clinic. This will help build on our research agenda of investigating the role of nNO in patients with chronic rhinosinusitis. Our initial prospective study on this topic was published in the International Forum of Allergy & Rhinology in October 2015.

Six manuscripts were published this year; largely this research productivity is directly attributed to the dedication and hard work from our motivated residents. Topics ranged from steroid impregnated middle meatal spacers to the psychological morbidity of waiting for sinus surgery. A special thanks goes out to Drs. Jason Xu, Gordon Tsang, Gavin le Nobel, Jonathan Yip and Michael Au.

We are also excited to announce that the "Handbook of Skull Base Surgery" was published by Thieme Inc. in February 2016. With editors Drs. Michael Cusimano, Antonio Di Ieva and John Lee, all from St. Michael's Hospital, this was a large undertaking and produced a handbook that offers a step-by-step approach in this complex field. Dr. Jennifer Anderson was author on two chapters as well.

Finally, the groundwork for a number of prospective multi-centered studies was established this past year. From in-clinic polypectomy to post-sinus surgery irrigations and novel adjuvant treatments for nasal polyposis, we are excited to recruit patients this upcoming year and continue the tradition of rhinology research at SMH.

Sunnybrook Health Sciences Centre

Auditory Development, Protection & Regeneration Alain Dabdoub

Hearing loss is the most common sensory disability affecting 0.3% of newborns, 5% of people under age 45 and 50% by age 70; culminating in 400 million people worldwide according to the World Health Organization, 3.5 million here in Canada. Our fundamental research focuses on biological solutions for hearing loss and balance disorders.

Wnt Signaling in Hair Cell Development and Regeneration

Wnt signaling is intensively studied in many systems due to its key role and therapeutic implications in development, cancer, stem cells and tissue renewal. We have previously shown that canonical Wnt signaling is an essential pathway during development of the cochlea, and raised the possibility that Wnt signaling could be used to regenerate sensory hair cells. This year we published a study identifying all the Wnt pathway molecules expressed in the embryonic and adult cochlea and importantly, we continue to work on revealing the role of this important pathway in hair cell regeneration. Furthermore, I co-organized a symposium on Wnt signaling "Wnt Signaling in Development and Disease" for the Association for Research in Otolaryngology 2016 meeting.

Advances in Vestibular Research

In mammalian mouse studies, using manipulation of Wnt signaling as well as gene overexpression, we have been able to elicit regenerative abilities of the mature utricle, a vestibular organ responsible for balance. We want to determine whether this is translatable to humans. To do so, we are harvesting utricles from surgical patients and using the human tissue for experimentation. We are using this system to determine the effectiveness of potential new therapies, accelerating discovery, and reducing the costs of doing trials in patients. Ultimately this may provide us with the ability to restore some balance function.

Regeneration of Auditory Neurons

Auditory neurons do not regenerate when they are lost or damaged due to noise exposure or aging; thus, their loss is prevalent and permanent and leads to hearing impairment. We are working to directly reprogram cochlear glial cells into neurons by overexpression of neurogenic and ear-specific transcription factors. This holds promise for regeneration of auditory neurons and amelioration of hearing loss. Outside the lab and as part of the CI2016 meeting, we organized a symposium on "Cochlear Implants Meet Regenerative Biology". In addition, in collaboration with colleagues published a book on auditory neurons, entitled "The Primary Auditory Neurons of the Mammalian Cochlea" (2016 - Springer Handbook of Auditory Research, New York).

Cochlear Implant Research Vincent Lin, Julian Nedzelski, Joseph Chen

The Sunnybrook CI program played host to the international community in the largest CI meeting of its kind on May 11-14, 2016. The 14th International Conference on Cochlear Implantation (aka CI2016) drew 1700+ registrants with approximately 350 podium presentations and 500+ posters. This year's conference was focused on the research of auditory plasticity, adult aural rehabilitation and aging. Keynote speakers who addressed the audiences over three days included Michael Dorman, Steve Lomber, Charles Limb, Sandra Black, and Warren Estabrook. They received rave reviews for their expertise and passion demonstrated through their lectures. Special symposia on "Molecular Biology meets Technology" chaired by Alain Dabdoub, and "Musicality" chaired by Lee Bartel were particularly well received. The Sunnybrook team presented 17 podium presentations and 6 posters; 6 members were interviewed and videos were made available to social media. The feedback from attendees were uniformly superb and most indicated that the CI2016 was the best in the history of this meeting that balanced high caliber science with relevant clinical presentations for everyone.

The meeting was co-chaired by Drs. Nedzelski and Chen; the scientific committee was organized by Drs. Lin and Dabdoub. The combined efforts from the Sunnybrook's and Hospital for Sick Children's cochlear implant teams were invaluable to the success of this meeting. The meeting also marked the finale of a stellar career of Dr. Julian Nedzelski and the end of an era in Canadian Cochlear Implantation.

To stay relevant and continue to maintain an international profile, the Sunnybrook program is entering into another phase in its growth in two strategic areas through recruitment.

- Dr. Andrew Dimitrijevic, PhD, from the Cincinnati Children's Hospital has been recruited to come back to Toronto to help with research in electrophysiology and neuro-plasticity/imaging. He is a protégé of Professor Terry Picton and he will usher in a new era of auditory science that has been lacking in Toronto.
- Dr. Trung Le, MD, PhD was recruited from the University of Manitoba/UBC to focus in molecular biology in the context of merging stem cell therapy through magnetic induction via a cochlear implant. He will work closely with Drs. Alain Dabdoub and Vincent Lin in the Sonja Koerner Inner Ear Regeneration Laboratory.

On the administrative side, in terms of provision of care, the adult program is growing due to increased awareness and referral. The surgical wait time has increased dramatically across Ontario, while this challenge is greatest in Toronto, approaching 2 years. In our leadership role, Sunnybrook has created a white paper to help the Ministry establish standards and quality metrics to achieve a sustainable future in CI funding in Ontario.

We look forward to another productive year in 2017.

Neurotology & Otology Research Joseph Chen, Julian Nedzelski, Trung Le, Vincent Lin

Ageing: We have completed validation of the Hearing Impaired MoCA (HI-MoCA) for our group I and II patients (normal hearing, no cognitive loss & hearing impaired, no cognitive loss). This multi-year collaboration between our department and the Department of Neurology (Drs. Sandra Black and Mario Masellis) has worked tirelessly to develop this important screening test for the severely hearing impaired. Our results demonstrate no comparable differences between the standard MoCA and the HI-MoCA meaning that the cutoff score of 26 and greater as normal will be maintained for both versions of the test. This data was recently presented at the CI 2016 meeting held in Toronto. We are currently accruing patients in group III (confirmed cognitive impairment). We have also begun discussions to convert this test into an easier to administer app version which could be used on an iPad or Surface tablet.

Dementia: As a major adult implantation centre, we are expanding our research on the effects of hearing loss on the development and progression of dementia. We have now incorporated dementia screening in our at risk patients prior to cochlear implantation surgery. We have also begun to investigate the association between dementia and anesthesia in patients undergoing cochlear implant surgery and we continue to recruit patients for this longitudinal prospective study. Finally we recently published a major article that demonstrates a dramatic improvement in the quality of life in the partners of cochlear implant recipients. In the past, the main focus has always been on the recipient but caregiver burden is becoming a major health care issue so we will continue to investigate this link and the potential positive benefits from cochlear implant surgery.

Music: A new version of the MusicEAR (formerly MusicEAR) has been developed. This new software will now be freely available to clinics worldwide for auditory and music rehab in our cochlear implantation patients. CI-CROS: We have finished our Phase 3 trial of our new CI-CROS prototype. This new prototype is now wireless and is based on the Phonak CROS technology. Our results demonstrate good situational improvement. Phase 4 would involve better microphone and sound processing algorithms to dynamically change the sound routing from side to side depending on the location of the sound source.

Outcomes Research: Acoustic Neuroma research continues in our department, with our current line of collaboration with Neurology and Radiology retrospectively examining whether irradiation effectively inhibits tumor growth over a minimum post-treatment interval of 5 years. We are also collaborating with the Division of Neuroradiology to examine the utility of MRI tractography to help predict intraoperative facial nerve location.

Head & Neck Research Danny Enepekides, Kevin Higgins

ALT Perforator Flaps

Motor and Sensory Donor Site Morbidity Associated with the Anterolateral Thigh Perforator Flap: A Pilot Study

Anterolateral thigh (ALT) free flap remains one of the most commonly used flaps in head and neck construction. Understanding of the functional outcomes associated with donor site morbidity is limited by a lack of robust clinical data. The impact of the lateral femoral cutaneous nerve sacrifice, motor nerve sacrifice, and disruption of vastus lateralis is also unclear. Objective and subjective methods are implemented pre-operatively and postoperatively for patients over six-months and one-year time intervals for data accrual. Current data suggests minimal donor site morbidity, reduced sensation of the ALT, thigh strength not statistically different, and some impairment for patients undergoing musculocutaneous dissection. This study is still active and patient recruitment is currently ongoing to optimize the statistical power. A poster for this study was recently presented at the Canadian Society of Otolaryngology-Head & Neck Surgery 70th Annual General Meeting.

HME Systems

Heat and Moisture Exchanger Use Reduces In-Hospital Complications Following Total Laryngectomy: A Case-Controlled Study

Total laryngectomy delivers excellent oncologic outcomes for patients with laryngeal cancer. Heat and Moisture Exchangers (HME) are used as a means to compensate for the lost functions in the upper respiratory tract due to TL. We hypothesized that improved compliance with humidification by way of HME usage could reduce the need for escalation of respiratory care and prevent significant adverse events such as return to the operating theatre for management of mucus plugging. This study is now accepted and published in the Journal of Otolaryngology-Head & Neck Surgery. We concluded that HME use does reduce in-hospital complications, in particular, episodes of mucus plugging and post-operative care requirements. Costbenefit gains for using HME systems also warrants the wide spread introduction of these medical devices in head and neck surgery. A podium for this study was recently presented at the Canadian Society of Otolaryngology-Head & Neck Surgery 70th Annual General Meeting.

Parotid Metastases Staging Cutaneous Squamous Cell Carcinoma Metastases to the Parotid Gland

The staging of cutaneous squamous cell cancers (cSCC) was revised by AJCC to incorporate known prognostic factors and expand the N category. The aim for this study was to validate this staging system using a North American cohort retrospectively collected from three separate institutions in Canada. This study focused on parotid cSCC metastasis and compared it to major salivary gland staging and the O'Brien P and N staging system, for the purpose of elucidating the most appropriate considerations for staging. Data accrual implies patients with cSCC metastasis to the parotid gland had good survival despite presentation with advanced disease, likely, due to adjuvant radiation therapy. cSCC staging in the setting of parotid metastasis is found to be, despite its limitations, the most reliable predictable staging system available. The study is complete and a final manuscript is generated. Currently, journal

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submission and publication are pending. A podium for this study was recently presented at the Canadian Society of Otolaryngology-Head & Neck Surgery 70th Annual General Meeting.

LAFDA for Head and Neck Skin Flaps Intraoperative Evaluation of Head and Neck Reconstruction Using Laser Assisted Fluorescent Dye Angiography, A Case Series

Laser assisted fluorescent dye angiography (LAFDA) is a novel technique utilizing the excitability of an injected dye (indocyanine green -ICG) to evaluate microvascular tissue in real time. LAFDA technology is proven to be extremely useful for objective evaluation of mastectomy skin flaps, perforator identification and post-anastomosis perfusion of free tissue transfers. In the setting of head and neck, our case study aims to evaluate LAFDA is assessing postlaryngectomy pharyngectomy pharyngeal mucosa and regional/free flap perfusion in head and neck cancer surgery/reconstruction and correlate with rates of postoperative wound complications. Clinical vignettes as recently presented via poster at the Canadian Society of Otolaryngology -Head and Neck Surgery 70th Annual General Meeting exemplify the continued use of LAFDA in select head and neck reconstructions, specifically, in situations where flap perfusion is questionable by standard techniques, surgeon suspicion of compromised perfusion is high, need for complex flap design, and/or in a post-radiation setting.

DEFINITY in Melanoma Head and Neck A Single-Center, Nonrandomized, Single-Group Pilot Study of Feasibility of the Contrast-Enhanced Ultrasound for the Detection of Sentinel Lymph Nodes in Cutaneous Melanoma of the Head and Neck

Despite their proven efficacy, traditional sentinel lymph node biopsy (SLNB) techniques with blue dye injection and lymphoscintigraphy have limitations. Staining of second echelon nodes and shine through from the primary site may limit their utility. Microbubble-based ultrasound contrast agents (i.e. DEFINITY) injected around a primary melanoma have been demonstrated to concentrate in lymphatic channels and first echelon nodes for up to four hours and be detectable with contrast-enhanced ultrasound (CEUS). This pilot study investigated the technical feasibility of one such UCA for CEUSassisted SLNB in head and neck melanomas. The plan is to move on to human subject clinical trials as soon as possible. We are currently collaborating with a radiation oncology and a medical imaging team to perform experiments via a model organism (i.e. rabbits) to further investigate any issues we encountered for protocol modification.

Thyroid US-FNAB

Surgeon-performed Ultrasound Guided Fine-Needle Aspirate Biopsy with Report of Learning Curve; A Consecutive Case-Series Study

Fine-needle aspiration biopsy became the standard of care for the evaluation of thyroid nodules. Recently, the use of ultrasound guided fine-needle aspiration biopsy (UG-FNAB) has improved adequacy of sampling. This biopsy is now increasingly more accessible with the advances of ultrasound technology. Adequacy rates and learning curves of a single surgeon at the adoption of UG-FNAB into surgical practice was investigated in this retrospective study. In respect of the retrospective data accrued within five years, we concluded that surgeons were capable of performing UG-FNABs with a learning curve noted to achieve standard adequacy rates. Cystic nodules were also shown to yield more nondiagnostic samples in the surgeon's office. The manuscript was submitted and accepted for publication via the Journal of Otolaryngology -Head & Neck Surgery.

¹⁸F-FDG-PET/CT in Oropharyngeal SCC Patients Diagnostic Performance of Perfusion and Diffusion MR Imaging to Detect False Positive Rates of 18F FDG-PET-CT in Patients with Oropharyngeal Squamous Cell Carcinoma after Definitive Treatment

Functional imaging with ¹⁸F-fluorodeoxyglucose positron emission tomography/computed tomography (¹⁸F-FDG-PET/CT) is currently being utilized after definitive treatment in oropharyngeal squamous cell carcinoma (SCC) patients for evaluation of post-treatment response and detection of recurrence or residual disease. However, a relative low positive predictive value of ¹⁸F-FDG-PET/CT has led to a diagnostic dilemma and necessitated the development of more accurate diagnostic modalities in order to avoid further unnecessary invasive testing in those patients with positive PET scans. This prospective and pilot study investigates the role of advanced MR imaging techniques, specifically diffusion and perfusion weighted imaging, in improving the positive predictive value of post-PET-CT treatment for detecting locoregional tumour recurrence. This study is granted REB approval and will shortly begin data accrual.

$HPV \pm OPC$

Radiologic Differences between Human Papillomavirus (HPV)-related Compared to HPV-Unrelated Oropharyngeal Carcinoma on Diffusion Weighted Imaging

Human papilloma virus-related oropharyngeal carcinoma (HPV+ OPC) is a unique entity with distinct epidemiological and clinical features compared to HPV-unrelated (HPV-) OPC. Previous studies have been inconsistent regarding the differences between HPV+ and HPV- OPCs on DWI. The purpose of this study is to evaluate the association between ADC values and HPV status in OPCs as an imaging biomarker. A retrospective review of OPC patients yielded higher ADC values in both primary tumour and lymph node metastases in HPV+ OPC compared to HPV-OPC. It was found that further studies are required in order to establish prognostic value of ADC and to verify any correlation, if any, between ADC and HPV status. The final manuscript is now submitted.

IRX-2 2015A

A Randomized Phase 2 Trial of Neoadjuvant and Adjuvant Therapy with the IRX-2 regimen in Patients with Newly Diagnosed Stage III or IVA Squamous Cell Carcinoma of the Oral Cavity

IRX-2 is a primary cell-derived biologic with multiple active cytokine components, produced under pharmaceutical standards from phytohemagglutinin (PHA) and ciprofloxacin stimulated donor mononuclear cells. This phase 2b study in head and neck squamous cell carcinoma (HN SCC) patients further investigates neoadjuvant therapy with IRX-2 regimen in a randomized trial. The objectives are to determine if event-free survival (EFS) of subjects treated with Regimen 1 is longer than for subjects treated with Regimen 2 and to compare the safety and feasibility of each regimen. The protocol is developed and the study is now successfully launched.

Other Studies Successfully Launched

- Pilot Project to Assess the Feasibility, Acceptability and Impact of Cancer Care Ontario's Psycosocial Oncology & Palliative Care Pathway embedded into the outpatient care of patients with Head and Neck Cancer in the Odette Cancer Centre
- 2. A randomized phase II trial for patients with p16 positive, non-smoking associated, locoregionally advanced oropharyngeal cancer
- A Phase III Randomized Trial of MK-3475 (Pembrolizumab) versus Standard Treatment in Subjects with Recurrent or Metastatic Head and Neck Cancer
- 4. A randomized phase II trial for patients with p16 positive, non-smoking associated, locoregionally advanced oropharyngeal cancer
- 5. Efficacy of Optically-Guided Surgery in the Management of Early-Staged Oral Cancer
- 6. A randomised, double-blind, placebo-controlled, phase III study to evaluate the efficacy and safety of afatinib (BIBW 2992) as adjuvant therapy after chemo-radiotherapy in primary unresected patients with stage III, IVa, or IVb locoregionally advanced head and neck squamous cell carcinoma
- 7. A randomized, double-blind, multicenter, Phase III study of everolimus (RAD001) plus best supportive care versus placebo plus best supportive care in the treatment of patients with advanced NET of GI or lung origin

Humanitarian Outreach

Canada International Scientific Exchange Program (CISEPO)

Dr. Arnold Noyek, OC, MD, FRCSC, FACS

I am pleased to provide this updated humanitarian outreach report for the past academic year. It is really a generalized summary of three decades of projects and programs by the CISEPO team which have built bridges of understanding and coexistence between Arabs and Israelis through CME and CPD in the first instance and led to a remarkable globalization in support of Canadian led initiatives. The activities to date are really an ongoing tribute to a cooperative team initiative in the health sector involving CISEPO, University of Toronto and other academic partners in Canada and abroad.

What has changed as of this year? Our initiative which was primarily dedicated to building bridges of peace and cooperation in the Middle East is now globalized and accepted as such and has the longterm support of the government of Canada.

What does this mean? Humanitarian outreach consists of doing good in the health sector based on our social contract as physicians with colleagues across the health spectrum devoted to good deeds and building the health of nations. In a more focused form for us it involves contributing to the development of health systems in developing and developed countries, capacity building and advancing the role of Canada in promoting and fostering these initiatives. It is more than simple humanitarian outreach; it is outreach which enables us to influence for good our partners through CPD, professional development but also through all the fine attributes and values that we believe exist within Canadian healthcare such as the CanMeds framework, respect for the dignity and rights of all through the social determinants of health, civility, and exemplary activities with constant encouragement and mission focus.

What does this mean for the future? Currently we have many programs on the ground globally (under the aegis of CISEPO), here in Canada for training

and education within the context of the trainees returning to their home country to make their communities a healthier and better place, and utilizing telehealth for knowledge transfer through highly interactive video teleconferencing accredited by University of Toronto CPD. It also means that we can grow the partnership of health care system growth and development, the development of scientific methodologies and evidence-based medicine, public health in all its dimensions and many other needs-based requests from our partners to optimize our world as a better place to live in.

The fruits of these multi-decade, sustainable activities are now at hand in a transformative moment. You'll see in the coming immediate months just what this means for Canada and how our department, along with great projects such as that to be enumerated by Dr. Peter Adamson and his colleagues, come together to demonstrate the vision, commitment and longterm thrust of the Department of Otolaryngology-Head & Neck Surgery in supporting the mission of the University of Toronto and our country broadly.

In this coming globalized change, telehealth will be the key means for knowledge transfer and CISEPO will lead into on the ground cooperative projects built around mother and child health but extending broadly across multiple disciplines on needs basis. The reader will find more information at www.CISEPO.ca

Face the Future[™] Foundation

Dr. Peter Adamson, MD, FRCSC, FACS

This year the Face the Future[™] Foundation celebrated its 20th year of leading international surgical missions. Three missions, including a pilot mission, were completed. This brings the total to 30 major missions and several smaller missions since its inception. The major missions have been led by Dr. Adamson, as president and founder of the foundation, and as Chef de Mission. Participating surgeons and paramedical staff over the years have come from Canada, United States, Germany, Finland, Switzerland and Egypt. The main teams vary from 7 to 16 members with missions usually one, but sometimes two, weeks in duration.

Funding for the missions is based on an endowment initially donated by one of Dr. Adamson's patients. Annual fundraising is primarily achieved through a spring dinner and auction. Additional generous support has been received from colleagues, friends and family of Dr. Adamson. Corporate support and gifts from other foundations wishing to promote the foundation's efforts have been increasing. In recent years our Department of Otolaryngology-Head & Neck Surgery has provided financial support to senior residents to participate in these missions as part of the university's global health outreach program.

The missions are established through partnerships not only with local surgeons, but also with the hospitals, ministries of health and other community leaders. The goals include not only providing consultative and surgical services, but also teaching surgeons, nurses and paramedical staff so that capacity can be built locally. The foundation commits to creating a long-term relationship, meeting needs identified by the local surgeons and other healthcare providers. Most of our team members commit to joining a mission for several years. In this way collegiality, trust and friendships are built such that progress is enhanced. In September 2015, Dr. Adamson and Dr. José Barrera of San Antonio, Texas instigated a pilot mission to Chiclayo, Peru, which is near the coast in northern Peru. Meeting with oromaxillofacial surgeons, touring local hospitals and speaking with health administrators confirmed the need for oromaxillofacial and craniomaxillofacial expertise. A three-person team will embark on its first mission to Chiclayo in September 2016.

The foundation's fourth major mission to Kigali, Rwanda was in February 2016. A team of 10, with Dr. Adamson as Chef de Mission and Dr. Kofi Boahene of Johns Hopkins University as team leader, consulted on over 50 patients and performed 38 surgeries. Most were complex head and neck reconstructions for congenital, traumatic or postablative conditions. Six successful free flaps were performed, mostly with loups and one old microscope. Dr. Gian-Marco Busato, one of our PGY4 residents, joined with team members from Johns Hopkins, Baylor and Regensburg, Germany. In addition, working with Face the Future, Dr. David Shaye of Harvard University and Dr. Travis Tollefson of Sacramento put on a one day facial plating workshop for 16 Rwandan surgeons. This was their first-ever introduction to plating systems and their use in trauma.

In June, 2016, Face the Future sent its fifth mission of seven surgeons and nurses to the Ulyanovsk, Russia Pediatric Regional Hospital. Dr. Michael Au, PGY4 resident in our department, was able to participate through the support of our department. The team consulted on over 60 patients and operated on over 40, all children. Procedures included burn and traumatic scar revisions, complex nasal reconstructions with rib grafting, oromaxillofacial surgery, and congenital urologic and gastrointestinal reconstruction. Subspecialty knowledge through teaching case presentations and rounds was shared.

The foundation's dinner event was held at the Shangri-La Hotel June 14, 2016. Radio celebrity

John Moore hosted the evening with special guest Vladislav Tretiak of hockey fame, with whose foundation Face the Future collaborates in Ulyanovsk. The foundation was also pleased to have Dr. Arnold Noyek of our department and his colleague from the Canadian International Scientific Exchange Program Oversees (CISEPO), Dr. Shawna Novak, attend in recognition of our joint efforts to promote humanitarian activities internationally. 115 guests and supporters not in attendance helped raise over \$60,000.

The coming academic year will see missions to Chiclayo, Kigali and Ulyanovsk. The foundation looks forward to participation by some of our senior residents and also faculty. As always, opportunities for additional missions in less developed countries will be sought.

Additional information is available at <u>http://www.facethefuturefoundation.ca</u>

Resource Exchange International

Dr. Yvonne Chan, MD, FRCSC, MSc, HBSc

Resource Exchange International (REI) is an international not-for-profit educational organization that has been working in Vietnam since 1992 to "build people to build a nation". Over the years, over 350 professionals from various fields have travelled to Vietnam to help develop local expertise in areas such as medicine, veterinary sciences, business, and English education.

Since March 2014, I have joined Dr. Brent Senior's (Rhinologist from University of North Carolina) team on his annual humanitarian trip to Ho Chi Minh City and Hanoi for the past 3 years. Our team usually consists of several rhinologists, rhinology fellow, otologist, head and neck surgeons, radiologists, pediatric otolaryngologist, and general otolaryngologists. Our visits usually comprise of a one to two day course in the update in otolaryngology together with clinic consultations and surgeries. This year, we had the pleasure of having Dr. Gerald Wolf from Graz, Austria join us at our Rhinology Update 2016 in Ho Chi Minh City. During that course, there was didactic teaching as well as cadaver dissection. The surgeries we performed included endoscopic sinus surgery procedures for mucoceles, chronic rhinosinusitis, nasal polyposis, septal deviation, sinonasal malignancies, as well as thyroid goitres and a range of head and neck cancer procedures. The ENT Hospital in Ho Chi Minh City will see over 1200 patients in 1 day in their ambulatory clinics. In between our hectic schedules of lectures, patient consults, and OR, our hosts always manage to treat us to a proper hot meal for lunch and tea breaks.

During our downtime, our generous friends in Vietnam treated us to multiple delicious banquets over the course of our stay. A highlight was our team's enjoyment of the Rooftop Garden Restaurant at the Rex Hotel, where international correspondents dined during the Vietnam war in the 1960s. Over the course of the last 3 years, my visits have cultivated delightful relationships within our team members and with the Vietnamese doctors abroad. One of the residents approached me this year after one of my talks and told me that she has been using some of the new knowledge that she learned during my presentation there back in 2014! It is these interactions that make these trips rewarding. I will be returning to Hanoi,Vietnam in February 2017 if anyone is interested in joining me!

Zanzibar Ear Surgery Camp

Dr. Ambrose Lee, MD, MSc, CCFP(EM), FCFP, FRCSC

I had the honour of representing the university Department of Otolaryngology-Head & Neck Surgery at the Zanzibar Ear Surgery Camp in Stone Town Zanzibar which ran from 28th May – 31st May 2016. The program is run by a charity called IMPACT UK. It was formed during the 1980's with the aim of reducing disabilities worldwide.

The participants of this year's camp were: myself, Dr. Harish Rupani (Kenya), Dr. Mutlaq (Kuweit), Dr. Fei (China), Dr. Naufal (Zanzibar), Dr. Khalid (Dar-essalaam), Dr. Wardat (Zanzibar), Dr. Mwanakhamis (Zanzibar), Dr. Mwanana (Zanzibar), Dr. Wahida (Zanzibar), Dr. Nassor (Zanzibar), Kassim (Anaesthetist-Zanzibar), Amina (Anaesthetist-Zanzibar), Ismail (Anaesthetist – Zanzibar), Ramla (Nurse – Zanzibar), Leyla(Nurse – Zanzibar), Rahma (Nurse-Zanzibar), Dhuria (Nurse – Zanzibar)

Together we did 32 tympanoplasties and 1 modified radical mastoidectomy. I was the principle surgeon of the latter case. The patient presented with a chronically discharging ear, anacusis and a complete facial nerve palsy for weeks. I opened up the mastoid and skeletonised the tympanic and mastoid portions of the facial nerve.

I also supervised Dr. Khalid who is a second year ENT resident from Tanzania for the tympanoplasties.

Performing surgery overseas has always been a daunting task. Factors such as suboptimal sanitary conditions, equipment and anaesthesia play a major role, not to mention the language and cultural barriers. On the other hand, I was rewarded by working with a team of dedicated and motivated individuals with unparalleled efficiency. The turnover time between patients was less than two minutes so we were able to operate on many cases compared to my usual theatre list in Canada. I also learnt how to eat with my right hand only without cutlery or chopsticks for it is a customary practice locally.

I look forward to my next ear camp in 2017.

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Oral Oncology

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Otolaryngology - Head and Neck Surgery (United States)

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Otology and Neurotology

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Pediatrics

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PLoS ONE

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Srivastava, G., Somasundaram, R.T., Walfish, P.G., Ralhan, R. Anticancer activity of apaziquone in oral cancer cells and xenograft model: Implications for oral cancer therapy. 2015 July. PLoS ONE. 10 (7).

Proteomics

Matta, A., Masui, O., Siu, K.W.M., Ralhan, R. Identification of 14-3-3zeta associated protein networks in oral cancer. 2016 April. Proteomics. 16 (7), pp. 1079-1089.

Psycho-Oncology

Devins G.M., Wong J.C., Payne A.Y.M., Lebel S., Lee R.N.F., Mah K., Irish J., Rodin G. Distancing, self-esteem, and subjective well-being in head and neck cancer. 2015 November. Psycho-Oncology. 24 (11), pp. 1506-1513.

Stroke

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Seminars in Pediatric Surgery

Campisi P., Forte V. Pediatric tracheostomy. 2016 June. Seminars in Pediatric Surgery. 25 (3), pp. 191-195.

Supportive Care in Cancer

McEwen, SE, Rodriguez, AM, Martino, R, Poon, I, Dunphy, C, Rios, JN, Ringash, J. "I didn't actually know there was such a thing as rehab": Survivor, family, and clinician perceptions of rehabilitation following treatment for head and neck cancer. 2016. Supportive Care in Cancer. 24 : 1449-1453. DOI: 10.1007/s00520-015-3021-1.

The Laryngoscope

Lee D.J., Fu T.S., Carrillo B., Campisi P., Forte V., Chiodo A. Evaluation of an otoscopy simulator to teach otoscopy and normative anatomy to first year medical students. 2015 September. The Laryngoscope. 125 (9), pp. 2159-2162.

Propst E.J.

Repair of short type IV laryngotracheoesophageal cleft using long, tapered, engaging graft without need for tracheotomy. 2016 April. The Laryngoscope. 126 (4), pp. 1006-1008.

Thyroid

Ganly I., Nixon I.J., Wang L.Y., Palmer F.L., Migliacci J.C., Aniss A., Sywak M., Eskander A.E., Freeman J.L., Campbell M.J., Shen W.T., Vaisman F., Momesso D., Corbo R., Vaisman M., Shaha A., Tuttle R.M., Shah J.P., Patel S.G. Survival from differentiated thyroid cancer: What has age got to do with it?. 2015 October. Thyroid. 25 (10), pp. 1106-1114.

Ralhan, R., Veyhl, J., Chaker, S., Assi, J., Alyass, A., Jeganathan, A., Somasundaram, R.T., Macmillan, C., Freeman, J., Vescan, A.D., Witterick, I.J., Walfish, P.G.

Immunohistochemical Subcellular Localization of Protein Biomarkers Distinguishes Benign from Malignant Thyroid Nodules: Potential for Fine-Needle Aspiration Biopsy Clinical Application. 2015 November. Thyroid. 25 (11), pp. 1224-1234.

Trials

Sawka A.M., Straus S., Rodin G., Thorpe K.E., Ezzat S., Gafni A., Goldstein D.P.

Decision aid on radioactive iodine treatment for early stage papillary thyroid cancer: Update to study protocol with follow-up extension.

2015 July. Trials. 16 (1).

NON-PEER-REVIEWED PUBLICATIONS

ADAMSON, P

Holt, R, Thomas, JR, Chatham, D, Adamson, P, The Ethical Facial Plastic Surgeon – Part One. Facial Plastic Times, Vol. 37, No. 2, p 6. March 2016.

ELLIS, D

Ellis, DAF Bonaparte, JP Alterations in the Elasticity, Pliability, and Viscoelastic Properties of Facial Skin After Injection of Onabotulinum Toxin A. Facial Plastic Surgery. July/August 2015. Vol 17. No 4. 256-263.

FALLS, C

Falls, Carolyn Braci PRO – Alerts for the Hearing Impaired. ENT & Audiology News (Tech Reviews). 2016, 25, 3, 116.

Falls, Carolyn DrawMD: a new communication tool. ENT & Audiology News (Tech Reviews). 2016, 25, 2, 108.

Falls, Carolyn RogerVoice. ENT & Audiology News (Tech Reviews). 2015, 25, 5, 112.

Falls, Carolyn ENT Handbook. ENT & Audiology News (Tech Reviews). 2015, 25, 4, 114.

Falls, Carolyn Do you hear what I hear? A look at auditory illusions. ENT & Audiology News (Tech Reviews). 2015, 25, 3, 94.

Falls, Carolyn A Day in the Life of a Vestibular Audiologist. Canadian Audiologist. 2015, 2, 3.

HARRISON, R

Carraro M, Paroutis P, Woodside M, Harrison RV. Improved Imaging Of Cleared Samples With Zeiss Lightsheet Z.1: Refractive Index On Demand. Zeiss White Paper Technical Report. 2015 Carl Zeiss Microscopy Gmbh. Zeiss White Paper Technical Report. Doi: 10.13140/Rg.2.1.1875.4408.

Harrison RV. How can the audiogram be more useful? Canadian Audiologist (Official publication of the Canadian Academy of Audiology). 2016, vol 3, issue 2.



PRESENTATIONS

Visiting Professorships and Invited Leatures

INTERNATIONAL MEETINGS

Listed by Country

ARGENTINA

GORDON, K

2015 Aug Invited speaker. International Conference of the Argentinian Audiology Association. Buenos Aires, Argentina. Gordon, KA.

AUSTRALIA

CHEPEHA, D

2015 Jul	Panelist. Recurrent Disease: How to Avoid Complications After Salvage Laryngectomy. World Congress Larynx Cancer 2015. Cairns, Queensland, Australia. Presenter(s): Moderator: Guy Rees. Panelist: Douglas Chepeha.
2015 Jul	Panelist. Technical Tips for Improving Short and Long Term Outcomes. World Congress Larynx Cancer 2015. Cairns, Queensland, Australia. Presenter(s): Moderator: Scott Coman, John Chaplin. Panelists: David Lott, Douglas Chepeha, Jonathan Clark, James Burns.
2015 Jul	Panelist. Hypopharyngeal Fistula: Approach to Management. World Congress Larynx Cancer 2015. Cairns, Queensland, Australia. Presenter(s): Moderator: Tim Iseli, Sandro, Porceddu. Panelists: Douglas Chepeha, Jean-Pierre Jeannon, Bernard Lyons, Bahman Emami, Claire Frauenfelder.
2015 Jul	Panelist. Treatment Selection to Facilitate Exploration and Validation of Biomarkers? World Congress Larynx Cancer 2015. Cairns, Queensland, Australia. Presenter(s): Moderator: Chad Brenner, Michael Poulsen. Panelists: Gopal Lyer, William Coman, Chad Brenner, Douglas Chepeha, Camile Farah, Suzy Duflo.
2015 Jul	Panelist. Creating A Database is Not Research: A Primer on How to Create and Use Databases to Facilitate Research. World Congress Larynx Cancer 2015. Cairns, Queensland, Australia. Presenter(s): Moderator: William Coman, Jorgen Johansen. Panelists: Michael Poulsen, Jorgen Johansen, John Ridge, Douglas Chepeha.
2015 Jul	Moderator. Reconstructive Options for the Cricoid with Select Chondrosarcomas: Introduction of a New Technique. World Congress Larynx Cancer 2015. Cairns, Queensland, Australia. Presenter(s): Moderator: John-Charles Hodge, Douglas Chepeha. Panelists: Alan Cheng, Scott Rickert, Steven Zeitels.
WITTERICK, I 2016 Mar	Invited Speaker. Diagnosis & treatment of thyroid nodules. 20th Annual Meeting of the Otorhinolaryngology Head and Neck Nurses Group. Melbourne, Australia.
2016 Mar	Keynote Speaker. 1. Assessment and management of benign sinus neoplasms; 2. Avoidance and management of FESS complications; 3. Training future ENT surgeons; 4. Selection criteria for surgical management of skull base tumours. 66th Annual Scientific Meeting of the Australian Society of Otolaryngology - Head and Neck Surgery, March 6-8, 2016. Melbourne, Australia.

INTERNATIONAL MEETINGS (continued)

2016 Mar Invited Speaker. 1. Training skull base surgeons; 2. Endoscopic approaches to the anterior skull base; 3. Endoscopic reconstruction of the anterior skull base; 4. Managing complications of skull base surgery; 5. Case selection in skull base surgery. Contemporary Management of Skull Base Tumours - a 360 Degree Perspective. Melbourne, Australia.

BARBADOS

ADAMSON, P

2016 Jan Invited Speaker. 1. The Nose and Beauty, Non-Endoscopic Forehead Rejuvenation, Indications and Techniques in Forehead Lift (Panelist). 2. Short Flap to Deep Plane Facelift. 3. Managing the Dissatisfied Patient, Communication, Practice Management and Public Relations (Panelist). Fourth Biennial Caribbean Facial Plastic Surgery Update, Bridgetown, Barbados.

BELGIUM

JAMES, A

2015 Nov 27 Invited Speaker. Pediatric cholesteatoma: Improving outcomes with endoscopy. 4th Antwerp BOT Course. Antwerp, Belgium.

BRAZIL

ADAMSON, P

2016 May Invited Speaker. 1. Nasal Tip Suturing Techniques (Instruction Course). 2. The Difficult Rhinoplasty (Panel Moderator). 3. The Evolution of Beauty, Nasal Tip Refinement Techniques (Video Presentation). 8th International Meeting of the International Federation of Facial Plastic Surgery Societies, Rio de Janeiro, Brazil.

ASARIA, J

- 2016 May Oral Presenter. Aesthetic considerations in ethnic rhinoplasty. The 8th World Congress of Facial Plastic Surgery, Asaria J. Rio de Janeiro, Brazil.
- 2016 May Panel member. Blepharoplasty and surgical periorbital rejuvenation. The 8th World Congress of Facial Plastic Surgery, Asaria J, Laferriere K, Papel ID, Thomas JR, Ferraz MBJ, Patrocinio TG. Rio de Janeiro, Brazil.
- 2016 May Moderator. Revision rhinoplasty. The 8th World Congress of Facial Plastic Surgery, Asaria J, Almeida LC, Dewes WJ, Tasca I, Serna EM. Rio de Janeiro, Brazil.

CHEPEHA, D

- 2015 Jul Invited Panelist. Reconstructive algorithms after the surgical treatment of head and neck cancer. 5th IAOO World Congress. Sao Paulo, Brazil. Presenter(s): Moderator: C. Rene Leemans, Ashok Shaha. Panelists: Sefik Hosal, Wojciech Golusinski, Patrick Gullane, Douglas Chepeha.
- 2015 Jul Invited Panelist. Osteoradionecrosis of the Mandible. 5th IAOO World Congress. Sao Paulo, Brazil. Presenter(s): Moderator: Ian J. Witterick, James Brown. Panelists: Ralph Gilbert, Douglas Chepeha, James Brown, Richard Shaw.

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INTERNATIONAL MEETINGS (continued)

2015 Jul	Invited Panelist. Canada Neck Dissection in oral cancer; facts and fiction. 5th IAOO World Congress. Sao
	Paulo, Brazil. Presenter(s): Moderator: Chung Hwan Baek. Panelists: Brett Miles, Dan M. Fliss, Rui
	Fernandes, Douglas Chepeha.

CUSHING, S

2015 Sep Lecturer. Stabilization of balance using head referenced cochlear stimulation. IX INTERAMERICAN IAPO CONGRESS. Sao Paulo, Brazil. Presenter(s): Cushing SL.

de ALMEIDA, J

2015 Jul Invited Speaker. Health Related Quality of Life for Mandibular and Maxillary Microvascular Reconstruction. Sao Paolo, Brazil. Presenter(s): John R. de Almeida, Peter Cordeiro, Richard Hayden, Joe Helmen. Involved in a lecture and panel discussion on health related quality of life and late outcomes following microvascular reconstruction.

GANTOUS, A

- 2016 May Faculty and Panel Moderator. The Alar Problem. 8th World Congress of Facial Plastic Surgery. Rio de Janeiro, Brazil.
- 2016 May Faculty and Panelist. Nasal Reconstruction. 8th World Congress of Facial Plastic Surgery. Rio de Janeiro, Brazil.
- 2016 May Faculty and Invited Speaker. Incisionless Otoplasty. 8th World Congress of Facial Plastic Surgery. Rio de Janeiro, Brazil.

GILBERT, R

- 2015 Jul Panelist. Future of reconstruction in oral cancer The Canadian experience, cancer of the maxilla. IAOO 5th World Congress. Sao Paulo, Brazil.
- 2015 Jul Keynote Speaker. Head and Neck Reconstruction What's next. IAOO 5th World Congress. Sao Paulo, Brazil.
- 2015 Jul Panelist. Complications of surgical treatment of head and neck cancer. IAOO 5th World Congress. Sao Paulo, Brazil.

PAPSIN, B

2015 Sep Invited Lecturer. Cochlear Implants in children and the development of the auditory system. 3rd IAPO International Symposium of Pediatric Hearing Disorders. Sao Paulo, Brazil. Delivered via videoconference.

CANADA (International Meetings in Canada)

CHEPEHA, D

- 2015 Nov Panelist. Interactive Panel Discussion Salivary Gland Disease. Current Concepts in Head and Neck Surgery. Toronto, Ontario, Canada. Presenter(s): Moderators: Patrick Gullane, Eugene Yu. Panelists: Dale Brown, Danny Enepekides, John Kim, Doug Chepeha, John De Almeida.
- 2015 Nov Faculty. Session VI Stump the Faculty. Current Concepts in Head and Neck Surgery. Toronto, Ontario, Canada. Presenter(s): Moderator: Ashok Shaha. Faculty: Randel Weber, Patrick Gullane, Amy Hessel, Neil Gross, Richard Wong, Jatin Shah, David Goldstein, Doug Chepeha.

INTERNATIONAL MEETINGS (continued)

2015 Nov	Presenter. 3D Modeling in Mandibular Reconstruction. Current Concepts in Head and Neck Surgery. Toronto, Ontario, Canada.
CUSHING, S 2016 May	Invited Lecturer. Approach to the Dizzy Child. 10th Annual International Pediatric Otolaryngology Update. Montreal, Quebec, Canada. Presenter(s): Beaulieu C, Cushing SL, Dannenbaum E, Mijovic T, O'Reilly R. Panel
2016 May	Invited Speaker. Relationship between Cochlear Implantation and Vestibular and Balance Dysfunction. American Cochlear Implant Alliance Cl2016 International. Toronto, Ontario, Canada. Presenter(s): Gordon KA, Beck R, Rajan G, Ramsden J, Cushing SL. Panel: Bilateral Cochlear Implantation in Children: "Simultaneous or Sequential Procedures?".
DABDOUB, A 2016 May	Presenter. Regenerating auditory neurons using gene therapy to directly reprogram resident glial cells. 14th International Conference on Cochlear Implants. Toronto, Ontario, Canada. Presenter(s): Dabdoub, A.
2016 May	Organizer, symposium: Cochlear implants meet regenerative biology. International Conference on Cochlear Implants. Toronto, Ontario, Canada.
de ALMEDIA, J	
2015 Nov	Speaker. Larynx Cancer, Sinonasal Cancer, Oral Cavity Cancer panel. Current Concept in Head and Neck Surgery Toronto, Ontario Canada Presenter(s): John de Almeida, Ralph Gilbert, Amy Hessel, Neil Gross.
2015 Nov	Speaker. Parotid Malignancy Panel. Current Concept in Head and Neck Surgery Toronto, Ontario Canada Presenter(s): John de Almeida, Dale Brown, Danny Enepekides.
2015 Nov	Speaker. Oropharynx Cancer Panel. Current Concept in Head and Neck Surgery Toronto, Ontario Canada Presenter(s): John de Almeida, Neil Gross, John Waldron.
2015 Nov	Speaker. Skin Cancer Panel. Current Concept in Head and Neck Surgery Toronto, Ontario Canada Presenter(s): John de Almeida, David Goldstein, Anthony Joshua, Jonathan Irish.
2015 Nov	Invited Speaker. Current Concepts in Sinonasal Malignancies. Current Concept in Head and Neck Surgery Toronto, Ontario Canada.
ENEPEKIDES, D 2015 Nov	Invited Speaker. Surgical Management of Salivary Gland Disease. Current Concepts in Head and Neck Surgery. University of Toronto, MD Anderson Cancer Center, and Memorial Sloan Kettering Cancer Center Departments of Head and Neck Surgery. Toronto, Ontario, Canada. Presenter(s): Danny Enepekides.
FREEMAN, J	
2015 Nov	Management of Recurrent Thyroid Cancer. Current Concepts in Head and Neck Surgery. Toronto, Ontario.
2015 Nov	Interactive Panel Discussion – Management of Thyroid with Audience Interaction (Moderator). Current Concepts in Head and Neck Surgery. Toronto, Ontario.
GILBERT, R	
2015 Nov	Lecturer. Current Concepts of management of laryngeal cancer. Current Concepts in Head and Neck Cancer. Ontario, Canada.

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INTERNATIONAL MEETINGS (continued)

GOLDSTEIN, D

2015 Nov	Panelist. Stump the faculty panel. Current Concepts in Head and Neck Surgery. Toronto, Ontario, Canada.
2015 Nov	Panelist. Interactive Panel Discussion - Skin Cancer. Current Concepts in Head and Neck Surgery. Toronto, Ontario, Canada.
2015 Nov	Presenter. Staging and treatment for melanoma. Current Concepts in Head and Neck Surgery. Toronto, Ontario, Canada.
2015 Nov	Panelist. Interactive Panel Discussion - Thyroid cancer. Current Concepts in Head and Neck Surgery. Toronto, Ontario, Canada.
GORDON, K	
2016 May	Panel chair. Bilateral cochlear implantation in children: simultaneous or sequential procedures?. 14 th International Conference on Cochlear Implants. Toronto, Canada.
GULLANE, P	
2015 Nov	Moderator. Salivary Gland Disease. Current Concepts in Head & Neck Surgery. Toronto, Ontario, Canada.
2015 Oct	Distinguished Speaker. Cricotracheal Resection. 2nd Toronto International Pediatric Open Airway Course. Toronto, Ontario, Canada.
IRISH, J	
2015 Nov	Moderator. Skin Cancer Panel. Current Concepts in Head and Neck Surgery. Toronto, Ontario, Canada.
2015 Nov	Speaker. New Technology in Head and Neck Surgery. Current Concepts in Head and Neck Surgery. Toronto, Ontario, Canada.
2015 Nov	Panelist. Management of Thyroid Cancer. Current Concepts in Head and Neck Surgery. Toronto, Ontario, Canada.
JAMES, A 2016 May	Invited Lecturer. Endoscopic middle ear surgery. 10th Annual International Pediatric Otolaryngology Update.
	Montreal, Canada.
LIN, V	
2016 May	Presenter. A Semi-Implantable Active Bone Conduction Device for Single-Sided Deafness, Conductive and Mixed Hearing Loss: Performance and Quality of Life at 12 Months. 14th International Conference on Cochlear Implants. American Cochlear Implant Alliance. Toronto, Ontario, Canada. Presenter(s): Julija Adamonis, Vincent Lin.
2016 May	Presenter. Cochlear Implantation in Patients with Single Sided Deafness. 14th International Conference on Cochlear Implants. American Cochlear Implant Alliance. Toronto, Ontario, Canada. Presenter(s): Kari Smilsky, Vincent Lin.
2016 May	Presenter. Adaptation to a Sequential Implanted Cochlear Implant in an Adult Population: Can the Rate and Degree of Improvement of the Second Cochlear Implant be Improved by Suspending the Use of the First Cochlear Implant? 14th International Conference on Cochlear Implants. American Cochlear Implant Alliance. Toronto, Ontario, Canada. Presenter(s): Kari Smilsky, Vincent Lin.
2016 May	Presenter. Full Versus Partial Electrode Usage in the Med-EL FlexSoft and Flex28 Users. 14th International Conference on Cochlear Implants. American Cochlear Implant Alliance. Toronto, Ontario, Canada. Presenter(s): David Shipp, Vincent Lin.
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2016 May	Presenter. Programming Methodologies: A Comparative Analysis of Fitting Using the Standard of Care Versus Electrically Evoked Compound Action Potentials in Unilateral Adult Cochlear Implant Recipients. 14th International Conference on Cochlear Implants. American Cochlear Implant Alliance. Toronto, Ontario, Canada. Presenter(s): Kassandra Kaminskas, Vincent Lin.
2016 May	Presenter. Development and Validation of a Cognitive Screening Test for the Severely Hearing Impaired: 2016 Update. 14th International Conference on Cochlear Implants. American Cochlear Implant Alliance. Toronto, Ontario, Canada. Presenter(s): Vincent Lin.
2016 May	Presenter. The Role of Preoperative Steroids in Hearing Preservation Cochlear Implantation - 1 Year Results of a Randomized Controlled Trial. 14th International Conference on Cochlear Implants. American Cochlear Implant Alliance. Toronto, Ontario, Canada. Presenter(s): Jafri Kuthubutheen, Vincent Lin.
2016 May	Presenter. The Effect of Preoperative Steroids on the Electrically Evoked Compound Action Potential (ECAP) and Cochlear Implant Electrode Impedence. 14th International Conference on Cochlear Implants. American Cochlear Implant Alliance. Toronto, Ontario, Canada. Presenter(s): Jafri Kuthubutheen, Vincent Lin.
2016 May	Moderator. Basic Research 1: 14th International Conference on Cochlear Implants. American Cochlear Implant Alliance, Toronto, Ontario, Canada.
2016 May	Moderator. Rehabilitation in the Elderly 1: 14th International Conference on Cochlear Implants. American Cochlear Implant Alliance, Toronto, Ontario, Canada.
2016 May	Moderator. Audiology 12: 14th International Conference on Cochlear Implants. American Cochlear Implant Alliance, Toronto, Ontario, Canada.
MARTINO, R 2016 Apr	Predictors of dysphagia screening after acute ischemic stroke: Who gets tested? American Academy of Neurology Annual Conference. Vancouver, British Columbia, Canada. Presenter(s): Joundi RA, Martino R, Saposnik G, Fang J, Giannakeas V, Kapral MK.
PAPSIN, B 2016 May	Music training improves perception of emotion and music in children using bilateral cochlear implants or bimodal devices. Program of the 14th International Conference on Cochlear Implants and Other Implantable Technologies. Toronto, Ontario, Canada. Presenter(s): Polonenko, MJ, Giannantonio, S, Papsin, BC, Gordon, KA.
2016 May	Development of the right hemispheric cortical specialization to tone-bursts from early childhood to adolescence in normal hearing subjects. Program of the 14th International Conference on Cochlear Implants and Other Implantable Technologies. Toronto, Ontario, Canada. Presenter(s): Yamazaki, H, Easwar, V, Papsin, BC. Gordon, KA.

INTERNATIONAL MEETINGS (continued)

2016 May	Contextual deficits in perception of Subjective Visual Vertical in children with cochlear implants. Program of the 14th International Conference on Cochlear Implants and Other Implantable Technologies. Toronto, Ontario, Canada. Presenter(s): Gnanasegaram, JJ, Parkes, WJ, Cushing, SL, McKnight, CL, Papsin, BC, Gordon, KA.
2016 May	The nature of listening environments during cochlear implant use varies with children's ages. Program of the 14th International Conference on Cochlear Implants and Other Implantable Technologies. Toronto, Ontario, Canada. Presenter(s): Easwar, V, Sanfilippo, J, Papsin, BC, Gordon, KA.
2016 May	Pediatric bimodal users: who are they? Program of the 14th International Conference on Cochlear Implants and Other Implantable Technologies. Toronto, Ontario, Canada. Presenter(s): Polonenko, MJ, Papsin, BC, Gordon, KA.
2016 May	Preliminary Experience with a Novel Cochlear Implant Designed to Improve Efficiency without Compromising Device Security. Program of the 14th International Conference on Cochlear Implants and Other Implantable Technologies. Toronto, Ontario, Canada. Presenter(s): Cushing, SL, Parkes WJ, Gordon KA, Polonenko, M, Papsin, BC.
2016 May	Initial North American experience with a thin, perimodiolar electrode array in the pediatric population. Program of the 14th International Conference on Cochlear Implants and Other Implantable Technologies. Toronto, Ontario, Canada. Presenter(s): Cushing, SL, Gordon KA, Polonenko, M, Papsin, BC.
PROPST, E 2016 May	Invited Speaker. Testing the olfactory system in children. 10th Annual International Pediatric Otolaryngology Update. Dr. Sam Daniel, Dr. Lily Nguyen. Montreal, Quebec, Canada.
WITTERICK, I 2015 Nov	Panel Moderator. Interactive panel discussion - Iarynx, sinonasal, oral cavity. Current Concepts in Head and Neck Surgery. Toronto, Canada.
2015 Nov	Invited Speaker. Video session: skull base. Current Concepts in Head and Neck Surgery. Toronto, Canada.

CHILE

ADAMSON, P

2016 Apr Invited International Speaker. 1. Concepts and Techniques in Tip Rhinoplasty. 2. Cephalic Malposition of the Lower Lateral Cartilages. 3. Alar Base Refinement. 4. Common Nasal Tip Suture Techniques. 5. Lessons Learned from Revision Rhinoplasty. 6. Management of the Dissatisfied Patient. 7. Adolescent Rhinoplasty. 10th Annual Update Course in Otolaryngology, Clinica Las Condes, Santiago, Chile.

CHINA

ENEPEKIDES, D

2015 Dec Distinguished Speaker. Advances in Microvascular Surgery and Reconstruction with Anatomical Specimens. AO CMF Asia. Shanghai, China.

2015 Dec International Faculty of Honor, AOCMF Advanced Course in Carniomaxillofacial Reconstruction. Shanghai, China.

HARRISON, R

2016 Mar Invited Speaker/Faculty. Numerous lectures at Workshop on Advanced studies in Cochlear Implantation. Chinese Audiology Consortium / Salus University (U.S.). Beijing, China. Harrison RV

NG, R

2016 Jun Oral presentation. Detection and Screening for NPC with Trans-Oral Brushing and Determination of EBV DNA. Gordon Research Conference-Nasopharyngeal Cancer. Hong Kong, China.

COLUMBIA

GORDON, K

- 2016 Mar Invited speaker. Imaging auditory development with electrophysiology. Semana de la Otología 2016. Bogotá-Colombia.
- 2016 Mar Invited speaker. Effects of hearing loss on the developing auditory system. Semana de la Otología 2016. Bogotá-Colombia.
- 2016 Mar Invited speaker. Reducing effects of asymmetric hearing: evidence from children with bilateral cochlear implants and bimodal devices. Semana de la Otología 2016. Bogotá-Colombia.
- 2016 Mar Invited speaker. Promoting binaural hearing in children with hearing loss. Semana de la Otología 2016. Bogotá-Colombia.

PAPSIN, B

- 2016 Mar Temporal Bone Dissection for cochlear implants, middle ear reconstruction and anatomy. 41st Temporal Dissection Course, Semana de la Otologia. Bogata, Colombia.
- 2016 Mar Invited Speaker. 1) 3 Dimensional perception in the absence of fusion: What cochlear implants have taught us about the developing auditory system, 2) Cochlear implantation in children with asymmetric hearing loss, 3) Understanding balance in children with sensorineural hearing loss. 14th Symposium of Otology and Neurotology, Semana de la Otologia. Bogata, Colombia.

FRANCE

ADAMSON, P

2015 Sept Guest International Speaker. 1. Neck Lifting – To Open or Not to Open the Neck. 2. Marketing and Reputation Management. 3. Managing the Dissatisfied Patient. 4. Upper Face Rejuvenation. European Academy of Facial Plastic and Reconstructive Surgery Annual Meeting. Cannes, France.

JAMES, A

- 2015 Nov Invited Speaker. Minimally invasive cochlear implant surgery without endoscopes. ENT Endoscopy 2015. Nice, France.
- 2015 Nov Invited Speaker. Endoscopic techniques to improve outcome in pediatrics cholesteatoma. ENT Endoscopy 2015. Nice, France.

INTERNATIONAL MEETINGS (continued)

2015 Nov	Invited Speaker. Endoscopic Ear Surgery in Children (Canadian Experience). ENT Endoscopy 2015. Nice,
	France.

HONG KONG

LIU, FF

2016 Jun Co-Chair. Future Prospects for Nasopharyngeal Carcinoma. Gordon Research Conference on Nasopharyngeal Carcinoma. The Hong Kong University of Science and Technology. Hong Kong.

HUNGARY

GORDON, K

- 2016 Jun Invited speaker. Imaging bilateral developmental plasticity: evidence from children with bilateral cochlear implants, bimodal devices, and normal hearing. Keynote address. Objective Measures in Auditory Implants. Szeged, Hungary.
- 2016 Jun Invited speaker. Can bimodal hearing protect bilateral auditory development? Evidence from NIC2 evoked responses in children. Cochlear Symposium. Objective Measures in Auditory Implants. Szeged, Hungary.

INDIA

RALHAN, R 2016 Mar	Invited lecturer. Assessment of Risk of Cancer Development in Oral Lesions with Dysplasia using Straticyte Test. Canada-India Med Tech Mission. MolQ Diagnostics, Gurgaon, NCR Delhi.
2016 Mar	Invited lecturer. Predicting Risk of Cancer Development in Oral Lesions with Dysplasia using Straticyte. Canada-India Med Tech Mission. Sapien BioSciences, Hyderabad.
2016 Feb	Invited lecturer. Oral Pre-Cancer and Cancer Proteomic Biomarkers Signature Based Straticyte Test: Translation into Clinics. Canada-India Med Tech Mission. Majumdar Shaw Centre for Translational Research, Bangalore.
2016 Feb	Invited lecturer. Straticyte: A Proteomic Signature Based Test for Predicting Risk of Cancer Development in Oral Lesions with Dysplasia. Canada-India Med Tech Mission. Tata Memorial Hospital, Mumbai, Maharashtra.
2016 Feb	Invited lecturer. Canada-India Med Tech Mission. ONCQuest Lab, New Delhi. Early Detection of Oral Lesions with Dysplasia at High Risk of Cancer Development Using A Proteomic Signature Image Analysis Based Straticyte Test.
2016 Feb	Invited lecturer. Proteomic Biomarkers Signature Based Straticyte Test for Oral Pre-Cancer and Cancer: Translation into Clinics. Canada-India Med Tech Mission. Institute of Cytology and Preventive Oncology, Noida, Delhi.
2016 Feb	Invited lecturer. Straticyte Test for Predicting Risk of Cancer Development in Oral Lesions with Dysplasia. Canada-India Med Tech Mission. All India Institute of Medical Sciences, New Delhi.

ISRAEL

FREEMAN, J	la itad Oneslan Ultrasonal fantha Usad and Nasla Ormana. Dabin Madiael Ormtus Tel Aria Janal
2015 Oct	Invited Speaker. Ultrasound for the Head and Neck Surgeon. Rabin Medical Centre, Tel Aviv, Israel.
2015 Oct	Invited Speaker. Lessons Learnt from the World Congress on Thyroid Cancer 2013. Sourasky Medical Centre. Tel Aviv, Israel.
2015 Oct	Invited Speaker. The Approach to Central Compartment in Thyroid Cancer. The Israel Society of Head and Neck Surgery and Oncology, Kibbutz Hagroshim, Israel.
GILBERT, R	
2016 Mar	Invited Speaker. Role of Surgery in Laryngeal Cancer. Israeli Society of Otolaryngology-H & N Surgery. Israel.
2016 Mar	Panelist. Management of Advanced Stage Laryngeal and Hypopharyngeal Carcinoma. Israeli Society of Otolaryngology-H & N Surgery. Israel.
2016 Mar	Keynote Speaker. Radionecrosis. Israeli Society of Otolaryngology-H & N Surgery. Israel.
2016 Mar	Invited Speaker. Perspectives on the Future of Airway Regeneration. Israeli Society of Otolaryngology- H & N Surgery. Israel.
2016 Mar	Invited Speaker. Oncology Management of Advanced Laryngeal Cancer. Israeli Society of Otolaryngology-H & N Surgery. Israel.
JAMES, A	
2016 Jan	Keynote Speaker. The pros and cons of endoscopic ear surgery. Israeli Otoneurology Society. Tiberius, Israel.
2016 Jan	Invited Lecturer. Challenges in the assessment of tympanic membrane retraction. Israeli Otoneurology Society. Tiberius, Israel.
ITALY	
JAMES, A 2016 Apr	Keynote Speaker. Endoscopes and tympanic membrane retraction. 6th International Workshop on Endoscopic Ear Surgery. Verona, Italy.
2015 Sep	Invited Speaker. Anterior skull base surgery in children. First International Meeting Skull Base Endoscopy - Verona. Verona, Italy.
MARTINO, R 2016 Feb	Visiting Professor: Early Detection of Dysphagia with Screening in Stroke Patients. La Disfagia nell'Adulto e nel Bambino: Diagnosi e Trattamento. Faenza, Italy.

2016 Feb Visiting Professor: Dysphagia Treatment: From Evidence to Practice. La Disfagia nell'Adulto e nel Bambino: Diagnosi e Trattamento. Faenza, Italy.

INTERNATIONAL MEETINGS (continued)

PAPSIN, B

2015 Sep Invited Lecturer. A 3-dimensional percept in the absence of fusion: What cochlear implants have taught us about the developing brain. 52nd Inner Ear Biology Symposium and Workshop. Rome, Italy.

ZADEH, G

- 2015 Sep Invited Speaker. Clinical and molecular predictors of recurrence for meningiomas. World Federation of Neurosurgical Societies. Rome, Italy.
- 2015 Sep Invited Speaker. Update on anti-angiogenesis. World Federation of Neurosurgical Societies. Rome, Italy.
- 2015 Sep Invited Speaker. What factors predict recurrence. World Federation of Neurosurgical Societies. Rome, Italy.
- 2015 Sep Invited Speaker. Gliomas: the new world of classification and management. World Federation of Neurosurgical Societies. Rome, Italy.

JAPAN

JAMES, A

- 2016 Jun Invited Lecturer. Starting totally endoscopic ear surgery safely: Tips for learning & teaching. 5th Hands on Seminar in Endoscopic Ear Surgery. Yamagata, Japan. Presenter(s): James AL. Lecture given by video-conferencing.
- 2015 Jul Facilitator. Practical management of tympanic membrane retraction in teenagers. 30th Politzer Society Meeting. Niigata, Japan. Presenter(s): James AL, Bance M, Hamilton J, Alper C, Saliba I.
- 2015 Jul Invited Speaker. Decision making in pediatric tympanomastoid surgery. 30th Politzer Society Meeting. Niigata, Japan.
- 2015 Jul Invited Speaker. Uncontrollable OM: pediatric tympanic membrane retraction. 30th Politzer Society Meeting. Niigata, Japan.
- 2015 Jul Invited Lecturer. Endoscopic ear surgery in children: Why? Who? How? Yamagata Instruction Course on Endoscopic Ear Surgery. Yamagata, Japan.

PAPSIN, B

- 2015 Oct Keynote Speaker. The 25th Meeting of the Japan Otological Society. Japan Otological Society. Nagasaki, Japan. 1) A 3-dimensional percept in the absence of fusion: What cochlear implants have taught us about the developing auditory system (Keynote Address), 2) Cochlear re-implantation disaster (Invited Address).
- 2015 Oct Invited Lecturer. 1) Surgical aspects of pediatric cochlear implantation 2) What bilateral cochlear implantation has taught us about the developing brain and 3) Asymmetric hearing loss and cochlear implantation. Cochlear Corporation sponsored speaking tour of selected Japanese Cochlear Implant centres. Tokyo (1), Nagoya (2), Fukuoka (2), Nagasaki (3), Japan.

WITTERICK, I

2016 Jun Invited Speaker. 1. Educating future skull base surgeons: Simulation and competency 2. Management of anterior cranial base meningoencephaloceles. 7th International Congress of World Federation of Skull Base Societies, June 14-17, 2016. Osaka, Japan.

KOREA

CUSHING, S

2016 Jun Invited Speaker. Vestibular and Balance Dysfunction in Children with Sensorineural Hearing Loss and Cochlear Implants. Barany Society Meeting. Korea, Korea, Democratic People's Republic Of. Presenter(s): Cushing SL, Gordon KA, Papsin BC.

KUWAIT

ADAMSON, P

2015 Dec Invited Faculty, 1. Patient Selection for Rhinoplasty. 2. Nasal Tip Surgery: Concepts and Techniques. 3. Lessons Learned from Revision Rhinoplasty. 4. Cosmetic Otoplasty. First Kuwaiti Symposium on Facial Plastic Surgery, 38th Kuwaiti Otolaryngology Update, Zain Hospital, Kuwait City, Kuwait.

MALAYSIA

ZADEH, G

- 2016 Jan Invited Speaker. Update on Management of Brain Metastases. Society for Neuro-Oncology. Malaysia.
- 2016 Jan Invited Speaker. Clinical and Biological predictors of Meningiomas. Society for Neuro-Oncology. Kuala Lampur, Malaysia.

PORTUGAL

CAMPISI, P	In the down low Develop Order and Eistudes. The selected Dust Outs, 10th Osenmore, of the Evenences
2016 Jun	Invited Speaker. Panel on Cysts and Fistulae. Thyroglossal Duct Cysts. 13th Congress of the European Society of Pediatric Otorhinolaryngology. Lisbon, Portugal.
2016 Jun	Invited Speaker. Round Table on pediatric Voice. Surgical Treatment of Dysphonia. 13th Congress of the European Society of Pediatric Otorhinolaryngology. Lisbon, Portugal.
CUSHING, S	
2016 Jun	Invited Speaker. Clinical assessment of balance function in children. 13th Congress of the European Society of Pediatric Otorhinolaryngology. Lisbon, Portugal. Presenter(s): Casselbrant M, Castillo R, Cushing SL, Dhooge I, Wiener-Vacher S, Brodsky J, Luis L. Panel, Lisbon, Portugal.
2016 Jun	Invited Speaker. Vestibular System and Cochlear Implants. 13th Congress of the European Society of Pediatric Otorhinolaryngology. Lisbon, Portugal. Presenter(s): Papsin BC, Graham J, Cushing SL, Dhooge I, Wiener-Vacher S, Deggoug N. Panel, Lisbon, Portugal.
GORDON, K	
2016 Jun	Invited speaker. Auditory Plasticity: Implications for Unilateral or Bilateral cochlear implants. 13th Congress of the European Society of Pediatric Otorhinolaryngology. Lisbon, Portugal.
PAPSIN, B	
2016 Jun	Invited Speaker. 1) Scientific Committee Member (International), 2) Panel Moderation on the Vestibular System after Cochlear Implantation in Children, 3) The Bimodal/Asymmetric Hearing Project. 13th Congress of the European Society of Pediatric Otorhinolaryngology - ESPO 2016. Lisbon, Portugal.

INTERNATIONAL MEETINGS (continued)

SAUDI ARABIA

HASSOUNEH, B 2016 Mar	Invited Speaker/Faculty: PDS plate in rhinoplasty and nasal reconstruction. 10th International Saudi Oto-Rhino-Laryngology Conference. Jeddah, Saudi Arabia.
2016 Mar	Invited Speaker/Faculty: Combined FESS and rhinoplasty: success and limitations.10th International Saudi Oto-Rhino-Laryngology Conference. Jeddah, Saudi Arabia.
2016 Mar	Invited Speaker/Faculty: Systematic approach to evaluating nasal obstruction. 10th International Saudi Oto-Rhino-Laryngology Conference. Jeddah, Saudi Arabia.
WITTERICK, I	
2015 Oct	Visiting Professor. Topical therapies in chronic rhinosinusitis management. 26th ENT Updates Symposium, King Abdulaizz University Hospital. Riyadh, Saudi Arabia.
2015 Oct	Visiting Professor. Rhinology fellowship program (sharing & exchanging experiences). 26th ENT Updates Symposium, King Abdulaizz University Hospital. Riyadh, Saudi Arabia.
2015 Oct	Visiting Professor. Measuring competency. 26th ENT Updates Symposium, King Abdulaizz University Hospital. Riyadh, Saudi Arabia.
SERBIA	
NGAN, B 2015 Sep	Invited Speaker. Lympho Proliferative Disease in immunodeficiency. 27th European Congress of Pathology. Sava Centar, Belgrade, Serbia.

2015 Sep Co-chair. Pediatric and Perinatal Pathology. 27th European Congress of Pathology. Sava Centar, Belgrade, Serbia.

SPAIN

CAMPISI, P

2015 Feb Invited Lecturer. Surveillance and Impact of HPV Prophylactic Vaccines. European Research Organization on Genital Infection and Neoplasia (EUROGIN). Seville, Spain.

PAPSIN, B

2016 Mar 1) Balance in children with sensorineural hearing loss: An instructional course, 2) Cochlear implantation in children with asymmetric hearing loss, 3) 3-Dimensional perception in the absence of fusion after cochlear implantation in children, 4) Differences in performance between anti- and peri-modiolar electrodes in simultaneously implanted children. 14th Curso Sobre Implantes Cochleares. Pamplona, Spain.

SWEDEN

GORDON, K

2015 Jun Invited speaker. Cortical consequences of asymmetric hearing during development: evidence from children using cochlear implants. Third International Conference on Cognitive Hearing Science for Communication (CHSCOM2015). Linköping, Sweden.

SWITZERLAND

ANDERSON, J

2016 Jan Invited Speaker. Winter Days of Laryngology, Genève (fr), Switzerland.

TAIWAN

IRISH, J

2015 Aug Keynote Speaker. Taking off our Loupes and Looking Forward: The Future of Surgery in 20/20. Taiwan Head and Neck Society Annual Meeting and International Conference. Changhua, Taiwan.

LIU, FF

2015 Oct Invited Speaker. Recent advances in radiation science shaping the future of radiation therapy. National Taiwan University Yonglin Biomedical Engineering Center. Taiwan, China.

THAILAND

ADAMSON, P

- 2015 Nov
 Invited and Keynote Speaker. 1. The Joseph Wong Memorial Keynote Lecture The Future of Facial Plastic Surgery. 2. Alar Base Refinement. 3. The Graduated Face and Neck Lift. 4. My Technical Approach to Upper and Lower Blepharoplasty. 5. Surgical Management of the Aging Forehead. 6. Nasal Tip Suturing Techniques.
 7. Facial Plastic Surgery Training in Asia. 8. The Graduated Face and Neck Life with Submentoplasty (Cadaver Dissection Workshop). 5th Pan Asian Academy of Facial Plastic and Reconstructive Surgery Conference, Chulalongkorn University, Bangkok, Thailand.
- 2015 Nov Invited and Keynote Speaker. 1. The Science of Beauty (Keynote Speaker). 2. The Graduated Face and Neck Lift. 3. Surgical Management of the Aging Forehead. 4. Open Approach Septorhinoplasty. 16th ASEAN (Association of South East Asian Nations) ORL-HNS Congress. Chiang Mai, Thailand.

TURKS AND CAICOS ISLANDS

PROPST, E

2016 Jan 11 Invited Speaker. Canadian Association of Emergency Physicians. Dr. Mark Mensour. Providenciales, Turks And Caicos Islands. Presenter(s): Evan Propst. Two lectures and online modules regarding emergencies in pediatric Otolaryngology.

INTERNATIONAL MEETINGS (continued)

UNITED ARAB EMIRATES

LIN, V

2016 Jan Invited Speaker. Development and Validation of a Cognitive Screening Test for the Severely Hearing Impaired. Emirates Otorhinolaryngology Audiology and Communication Disorders Congress. Dubai, Dubayy [Dubai], United Arab Emirates.

UNITED KINGDON

ADAMSON, P

2015 July	Guest International Speaker. 1. Demonstration cadaver rhinoplasty dissection. 2. Management of the Dissatisfied Patient. British Academic Conference in Otolaryngology. Liverpool, England.
ANDERSON, J 2016 May	Invited Lecturer. Work Associated Irritable Larynx Syndrome. EuroSciCon, London, England
GILBERT, R 2015 Oct	Keynote Speaker. Current concepts in the management of oropharyngeal cancer. European Head & Neck Course. United Kingdom.
2015 Oct	Moderator. Case discussion- Oral and Oropharyngeal cancer. European Head & Neck Course. United Kingdom.
2015 Oct	Keynote Speaker. Reconstructive Surgery. European Head and Neck course. United Kingdom.
2015 Sep	Keynote Speaker. General concepts of the management of head and neck cancer. European Head & Neck Course. United Kingdom.
2015 Jul	Visiting Professor. Scapula tip and teres major. BAOMS. Liverpool, United Kingdom.
2015 Jul	Panelist. Reconstruction - Dissection session. BAOMS. Liverpool, United Kingdom.
JAMES, A 2016 Jun	Invited Speaker. Predictive factors for recurrent cholesteatoma. 10th International Conference on Cholesteatoma and Ear Surgery. Edinburgh, United Kingdom.
2016 Jun	Invited Speaker. Endoscopic laser surgery for cholesteatoma. 10th International Conference on Cholesteatoma and Ear Surgery. Edinburgh, United Kingdom.
2016 Jun	Invited Speaker. Endoscopic tympanoplasty: Big holes and small ear canals.10th International Conference on Cholesteatoma and Ear Surgery. Edinburgh, United Kingdom.
PAPSIN, B 2016 May	Keynote Speaker. 1) Surgical restoration of hearing in children: The effect on the auditory system (Royal Society of Medicine, Otology Section, London, England), 2) Understanding Balance in Children with Sensorineural Hearing Loss: A Practical Course for Clinicians, (Irish Otolaryngology Society, Belfast Northern Ireland, 3) A Three Dimensional perception in the absence of fusion: What cochlear implants have taught us about the developing auditory system. (Scottish Otolaryngology Society, Dunblaine, Scotland). JLO/RSM.

UNITED STATES

ADAMSON, P	
2016 Mar	Invited Speaker. 1. Open Forehead Rejuvenation. 2. Pearls in Brow lifting (Panelist). 3. Live Forehead Surgery and Panel (Moderator). 4. Patient Management Post Periorbital Surgery (Panelist). 5. Face and Neck Lift Surgical Pearls (Panelist). AAFPRS Facial Rejuvenation 2016, Beverly Hills, CA.
2015 Oct	Invited Faculty. 1. The Ethical Facial Plastic Surgeon (Panelist). 2. The Great Debate – Implants versus Fillers. 3. Key Maneuvers in Otoplasty (Video). 4. A Potpourri of Nasal Tip Finesse Techniques (Instruction Course). American Academy of Facial Plastic and Reconstructive Surgery Annual Meeting. Dallas, Texas.
2015 Oct	Invited Speaker. 1. Alar Base Reduction. 2. Understanding Today's Aesthetic Patient. 3. Management of Cephalic Lower Lateral Cartilage Malposition. 4. Around the World: Views of the Web (Panel Moderator). 5. The Nose and Beauty. 6. Nasal Tip Suturing Techniques. 7. Cosmetic Otoplasty. First Global Aesthetics Conference. Miami Beach, Florida.
ANDERSON, J 2015 Oct	Chair. Fall Voice Conference. University of Pittsburgh Voice Centre, Pittsburgh, Pennsylvania, United States.
CHAN, Y 2015 Sep	Invited Speaker. Recalcitrant Chronic Rhinosinusitis (including Revision Surgery). North American Masterclass in Endoscopic Sinus Surgery. Montreal, Quebec, Canada.
CHEN, J 2016 Mar	Invited Speaker. Cost-effectiveness of bilateral cochlear implantation: Canadian experience. ACIA- 2016 Pediatric Cochlear Implantation Conference. Nashville, Tennessee, United States. Presenter(s): Joseph Chen, MD.
2016 Jan	Invited Speaker. DTI tractography for facial nerve identification during vestibular Schwannoma surgery. University of Colorado. Vail, United States. Presenter(s): Joseph Chen, MD.
CHEPEHA, D 2015 Sep	Primary Instructor. Does My Patient Need a Free Flap? Microvascular Committee Instructional Course, AAO- HNS Annual Meeting. Dallas, Texas, United States. Presenter(s): Douglas B. Chepeha, Samir S. Khariwala, Kelly M. Malloy. September 27-30, 2015.
2015 Sep	Panelist. Orbital Reconstruction: Soft Tissue Reconstruction. Fifth Annual Advances in Microvascular Reconstruction. Dallas, Texas, United States. Presenter(s): Moderator: Judith Skoner. Panelists: Doug Chepeha, Mike Fritz, Ryan Heffelfinger. Microvascular Workshop.
CUSHING, S	
2015 Dec	Invited Speaker. Symposia: Contemporary Management of Chronic Ear Disease. SENTAC. San Antonio, Texas, United States. Presenter(s): Wooten C, Lee K, Preciado D, Cushing SL, Cohen M.
2015 Dec	Chair. Panel: Managing Dizzy Children; a Simple and Practical Approach. SENTAC. San Antonio, Texas, United States. Presenter(s): Cushing SL, Field E, Novick W, O'Reilly RC.
2015 Oct	Invited Lecturer. Vestibular Deficits in Children with Sensorineural Hearing Loss & Medical Management of the Dizzy Child. Pediatric Vestibular Disorders Symposium. Cincinnati, Ohio, United States.

INTERNATIONAL MEETINGS (continued)

2015 Oct	Invited Lecturer. Vestibular Disorders and Sensorineural Hearing Loss. 6th Annual Training Course for Health Care Professionals on Vestibular and Balance Disorders in the Pediatric Population. Boston, Massachusetts, United States.
2016 May	Invited Speaker. Vestibular and Balance Dysfunction in Children with Sensorineural Hearing Loss. 10th Annual International Pediatric Otolaryngology Update. Montreal, Quebec, Canada. Presenter(s): Mijovic T, Beaulieu C, Dannenbaum E, O'Reilly R, Cushing SL. Panel: Approach to the Dizzy Child.
DABDOUB, A 2016 Feb	Presenter. The Wnt-astic cochlea in development and potential for regeneration. Association for Research in Otolaryngology. San Diego, California, United States.
2016 Feb	Co-organizer, symposium: Wnt signaling in development and disease. Association for Research in Otolaryngology Meeting. San Diego, California, United States.
2015 Aug	Invited Speaker. Planar polarity in the mouse cochlea: providing a glimpse. Biology of the Inner Ear Course. Woods Hole, Massachusetts, United States.
de ALMEIDA, J	
2016 Feb	Invited Speaker. Image Guided Skull Base Surgery in Education. North American Skull Base Society. Scottsdale, Arizona, United States. Presenter(s): John de Almeida, Arij Janjua, Eric Monteiro, Chris Depnorrhat, Michael Link, Juan Carlos Fernandez Miranda. Petcha Kutcha format presentation on Education in skull base surgery.
2015 Sep	Invited Speaker. Resource demands for a Transoral Robotic Surgery Program. Annual meeting fo the AAO- HNS Dallas, Texas, United States. Presenter(s): David Cognetti, Jeremy Richmond, John de Almeida, Uma Duvvuri. Panel discussion on Robotic Surgery: Past, Present, Future.
2015 Sep	Invited Speaker. Image guided and molecular guided transoral robotic surgery. Annual meeting fo the AAO- HNS Dallas, Texas, United States. Presenter(s): David Cognetti, Jeremy Richmond, John de Almeida, Uma Duvvuri. Panel discussion on Transoral robotic surgery: past, present, future.
GANTOUS, A	
2016 Jun	Guest Faculty. Rhinoplasty in Patients with Granulomatosis, Pearls and Pitfalls. Vegas Cosmetic Surgery & Aesthetic Dermatology. Las Vegas, NV, United States.
20216 Jun	Guest Faculty. Incisionless Otoplasty, How I Do It. Vegas Cosmetic Surgery & Aesthetic Dermatology. Las Vegas, NV, United States.
2015 Jun	Faculty. Incisionless Otoplasty: A Reliable and Replicable Technique. Vegas Cosmetic Surgery & Aesthetic Dermatology. Las Vegas, NV, United States.
GORDON, K 2015 Dec	Invited speaker. Using evoked auditory nerve and brainstem responses to program bilateral cochlear implants. Maximizing Performance in CI recipients: Programming Concepts. New York University. Gordon, KA.
GULLANE, P	
2016 Feb	Invited Speaker. Master Surgeon: Transfacial Surgery for Skull Base Cancers: What is the Current Role? North American Skull Base Society Arizona, United States

2016 Jan	Panelist. Masters of Otolaryngology: Scary Cases, My Worst Cases, Career Changing Events. Triological Society. Miami, Florida, United States.
HARRISON, R 2015 July	Invited Lecturer: Workshop on Advanced Studies in Pediatric Audiology. Presentation on advanced auditory biology. 2015, SALUS University Philadelphia Pennsylvania, United States.
HIGGINS, K 2015 Sep	Invited Speaker. Contemporary Reconstruction of the midface/cheek with microvascular free tissue transfer. American Academy of Otolaryngology-Head and Neck Surgery. United States. Presenter(s): KM Higgins, Brian Nussbaum, Jason Rich, David Goldstein.
2015 Sep	Advanced Skin Cancer of the Scalp and Cheek: Reconstructive Paradigms. American Academy of Head and Neck Surgery AAO-HNS Annual Meeting. United States.
JAMES, A 2016 May	Lecturer. KTP laser and prevention of residual cholesteatoma. Vanderbilt University 3rd Endoscopic Ear Surgery Course. Nashville, Tennessee, United States.
2016 May	Keynote Speaker. Pediatric issues in endoscopic tympanoplasty. Vanderbilt University 3rd Endoscopic Ear Surgery Course. Nashville, Tennessee, United States.
2015 Sep	Instructor. Minimal Access Cochlear Implantation in Children: New Concepts. American Academy of Otolaryngology - Head and Neck Surgery Annual Meeting. Dallas, Texas, United States. Presenter(s): James A, Papsin B.
2015 Sep	Instructor. Top tips in Pediatric Tympanomastoid Surgery. American Academy of Otolaryngology - Head and Neck Surgery Annual Meeting. Dallas, Texas, United States. Presenter(s): Papsin B, James A.
LIN, V 2015 Oct	Post-operative Cochlear Microphonic Potentials Recorded via Intracochlear Electrocochleography in Cochlear Implant Patients. Cl 2015 Symposium. Washington, District of Columbia, United States. Presenter(s): Leah Smith, Vincent Lin.
LIU, FF 2016 Apr	Distinguished Speaker. Incorporating genomics information in personalized radiation medicine. University of California San Francisco. San Francisco, United States.
2016 Jan	Visiting Professor. Future opportunities in personalized radiation therapy. MD Anderson Cancer Center. Houston, United States.
MARINTO, R 2016 Mar	Invited Speaker: Identifying Dysphagia: Timing Matters. School of Health and Rehabilitation Sciences, Department of Communication Science and Disorders, University of Pittsburgh. Pittsburgh, Pennsylvania, United States.
MONTEIRO, E 2016 Feb	Invited Lecture. Innovation in Education: Measuring the Quality of our Learners – The role of simulation. Monteiro E. North American Skull Base Society 26 th annual meeting. Scottsdale, AZ.

INTERNATIONAL MEETINGS (continued)

NG, R

2015 Nov Invited Speaker. 1. Clinical experience with the brushing method: clinical trial results for screening general Chinese population and those with first degree relatives with NPC from Toronto and Hong Kong. 2. Potential sources of funding for harmonization studies. NCI Workshop on EBV Testing for Nasopharyngeal Cancer, National Cancer Institute, Maryland Washington.

PAPSIN, B

- 2016 Apr Keynote Speaker. A Three Dimensional perception in the absence of fusion: What cochlear implants have taught us about the developing auditory system. Patrick E. Brookhouser, M.D. Memorial Lecture, Boys Town National Research Hospital. Omaha, Nebraska, United States.
- 2015 Dec Panel Moderator and Discussant. Management of a child with asymmetric hearing loss. Annual Meeting of SENTAC (Society of Ear Nose and Throat Advances in Children). San Antonio, Texas, United States.

PAPAIOANNOU, V

2015 Dec Invited Panelist - Asymmetric Hearing Loss in Infants and Children Society for Ear, Nose and Throat Advances in Children Conference, San Antonio, TX.

PROPST, E

- 2016 Jun Keynote Speaker. Children's National Health System. Dr. Nancy Bauman and Dr. Diego Preciado. Washington, District of Columbia, United States. Presenter(s): Evan Propst. Congenital Stridor (30 min); Open repair laryngeal and tracheal anomalies (30 min); teach open airway surgery on live pigs (4 hours).
- 2015 Nov Invited Speaker. Contemporary Management of Aerodigestive Disease in Children. Dr. Jeremy Prager. Denver, Colorado, United States. Presenter(s): Evan Propst. Panel Leader Complete Tracheal Rings - Mitchell M, Molter D, Schraff S.

WITTERICK, I

- 2016 May
 Invited Speaker. 1. Intracranial and orbital complications of sinusitis 2. Technology innovations and skull base and oncological surgery 3. Endoscopic endonasal transcribriform approach (moderator dissection session).
 7th World Congress for Endoscopic Surgery of the Skull Base and Brain, May 15-18, 2016. Chicago, United States.
- 2016 Apr Visiting Professor. Training the future: education, simulation and assessing competence. Department of Otorhinolaryngology - Head and Neck Surgery, University of Pennsylvania. Philadelphia, United States.
- 2016 Feb Panel Moderator. Centers of excellence: Is it time? 26th Annual Meeting of the North American Skull Base Society. Scottsdale, Arizona, United States. Presenter(s): Witterick IJ with Kelly D, Nanda A, Nuss D.
- 2016 Feb Panelist. Global challenges in skull base surgery. 26th Annual Meeting of the North American Skull Base Society. Scottsdale, Arizona, United States. Presenter(s): Witterick IJ with Behr R and Lavigne F (Moderators), Carrau R, Foelich S, Gleeson M, Lambert L, Lavigne P, Ohata K, Tran-Ba-Hui P.
- 2016 Feb Panelist. Operating room of the future: Bone removal. 26th Annual Meeting of the North American Skull Base Society. Scottsdale, Arizona, United States. Presenter(s): Witterick IJ with Sindwani Raj (Moderator), Anand V, Carrau R, Casiano R, Kassam A, Kelly D, Recinos P.

2015 Sep	Panelist. Controversies in the management of sinonasal malignancy. 61st Annual Meeting of the American Rhinologic Society. Dallas, Texas, United States. Presenter(s): Wang E (moderator), Chiu A, Eloy A, Devyani L, Witterick IJ.
ZADEH, G 2016 Mar	Invited Speaker. Genomic Landscape of Schwannomas, Schwannomatosis Conference. New York University, NYC.
2016 Mar	Invited Speaker. Molecular Signature of Vestibular Schwannoma, NASBS. Phoenix, Arizona.
2016 Feb	Invited Speaker. Molecular Predictors of Pituitary Tumors, NASBS. Phoenix, Arizona.
2015 Nov	Invited Speaker. Surgical Resection for GBM - Why Not a Cure? Society for Neuro-Oncology. San Antonio, Texas, United States.
2015 Nov	Invited Speaker. Challenges from the surgery perspective. European Association of Neuro-oncology/Society for Neuro-Oncology. San Antonio, Texas, United States.
2015 Nov	Invited Speaker. Escape mechanisms of anti-angiogenesis. Society for Neuro-Oncology. San Antonio, Texas, United States.
2015 Nov	Invited Speaker. Prediction parameters of Radiosurgery for meningiomas. Elekta- Society for Neuro- Oncology-industry supported symposium. San Antonio, Texas, United States.
2015 Nov	Invited Speaker. Future advances in brain metastases. Society for Neuro-Oncology. San Antonio, Texas, United States.
2015 Aug	Invited Speaker. Neurosurgery guided by Biology. University of California, Irvine Medical Center. United States.

VIETNAM

CHAN, Y

- 2016 Feb Invited Speaker. Demystifying the Frontal Sinus Part 2. Update in Otolaryngology Workshop, Pham Ngoc Thach University and ENT Hospital. Ho Chi Minh City, Viet Nam.
- 2016 Feb Invited Speaker. Demystifying the Frontal Sinus Part 1. Update in Otolaryngology Workshop, Pham Ngoc Thach University and ENT Hospital. Ho Chi Minh City, Viet Nam.

NATIONAL MEETINGS

BRITISH COLUMBIA

LEE, J

2015 Oct Invited Speaker. Nasal Polyposis and the United Airways. Canadian Society of Allergy and Clinical Immunology. Vancouver, British Columbia, Canada. Presenter(s): Lee JM. Panel: Dr. Jason Lee (Allergy), Dr. Sheldon Mintz (Respirology), Dr. John Lee. UNIVERSITY OF TORONTO OTOLARYNGOLOGY - HEAD & NECK SURGERY • ANNUAL REPORT 2015-2016

NATIONAL MEETINGS (continued)

MANITOBA

CAMPISI, P

2015 Jun Symposium. Frontiers and Nuances in the Management of HPV Related Diseases. Canadian Society of Otolaryngology – Head and Neck Surgery. Winnipeg, Manitoba, Canada. Presenter(s): Gullane P (Moderator), Campisi P, Hansen A.

NOVA SCOTIA

BRANDT, M

2016 Jan Invited Lecturer. 1. Facial trauma for the Otolaryngologist – Head & Neck Surgeon. 2. Rhinoplasty: the basics. 3. Preparing for the Royal College oral examination in facial plastic & reconstructive surgery. Annual Otolaryngology – Head & Neck Surgery Review Course. Halifax, Nova Scotia, Canada.

ONTARIO

ASARIA, J

2015 Oct	Panel member. Blepharoplasty and browlifting. The Canadian Academy of Facial Plastic and Reconstructive Surgery Annual Meeting, Asaria J, Ansari K, Taylor M, Fanous N. Toronto, Ontario.
2015 Oct	Panel member. Rhinoplasty. The Canadian Academy of Facial Plastic and Reconstructive Surgery Annual Meeting, Asaria J, Rival R, Samaha S. Toronto, Ontario.
2015 Oct	Invited Speaker. Emervel Injectables for full face rejuvenation. The Canadian Academy of Facial Plastic and Reconstructive Surgery Annual Meeting, Asaria J, Rival R, Samaha S. Toronto, Ontario.

PRINCE EDWARD ISLAND

BRANDT, M

2016 Jun Chair and Panelist. Facial Reconstruction: A Specialist Panel on the Contemporary Reconstruction of the Face. Annual Meeting of the Canadian Society of Otolaryngology – Head and Neck Surgery. Charlottetown, Prince Edward Island, Canada. Presenter(s): Brandt MG, Tasman A, Taylor SM, Trites J, Ansari K, Moore CC.

CHIODO, A

2016 June Invited Lecturer. "Celebrating our own" Community-based medical education in Otolaryngology-Head & Neck Surgery. Canadian Society of Otolaryngology-Head & Neck Surgery, Charlottetown, Prince Edward Island, Canada.

LEE, J

2016 Jun Invited Speaker. Avoiding and Managing Skull Base Complications in Endoscopic Sinus Surgery. Canadian Society of Otolaryngology-Head & Neck Surgery Annual Meeting. Charlottetown, Prince Edward Island, Canada.

LIN, V

2016 Jun Moderator. Otology 2. Canadian Society of Otolaryngology - Head & Neck Surgery. Charlottetown, Prince Edward Island, Canada.

2016 Jun Invited Symposium Speaker. Evidence-Based Medicine - Moving from Journals to Practice: Development of the Canadian Otology "Choosing Wisely" Guidelines. Canadian Society of Otolaryngology-Head & Neck Surgery. Charlottetown, Prince Edward Island, Canada.

PROPST, E

- 2016 Jun Moderator: Pediatric Otolaryngology Head & Neck Surgery Paper Presentation Session. 70th Annual Canadian Society of Otolaryngology - Head & Neck Surgery. Dr. Brian Rotenberg. Charlottetown, Prince Edward Island, Canada.
- 2016 Jun Invited Speaker. 70th Annual Canadian Society of Otolaryngology Head & Neck Surgery. Charlottetown, Prince Edward Island, Canada. Presenter(s): Julie Strychowsky (moderator), E. Propst, M. Husein, J. Maclean, LHP Nguyen. Airway and esophageal foreign bodies: a basic and safe approach.
- 2016 Jun Invited Speaker. 70th Annual Canadian Society of Otolaryngology Head & Neck Surgery. Charlottetown, Prince Edward Island, Canada. Presenter(s): Julie Strychowsky (moderator), E. Propst, M. Husein, I. Narang, J. Paradis. Pediatric obstructive sleep apnea: advances in evaluation and management.
- 2016 Jun Facilitator. 70th Annual Canadian Society of Otolaryngology Head & Neck Surgery. Charlottetown, Prince Edward Island, Canada. Presenter(s): E. Propst. 2016 Simulation Based Patient Safety Symposium.

WITTERICK, I

2016 Jun Debater. Be it resolved that otolaryngology – head and neck surgery in Canada is overly subspecialized. 70th Annual Meeting of the CSO-HNS. Charlottetown, Prince Edward Island, Canada. Presenter(s): Witterick IJ with Nguyen L, Cheung K, Thompson G.

QUEBEC

BRANDT, M

2016 June Invited Lecturer. Scar Revision. Annual McGill Facial Plastic & Reconstructive Surgery Course. Montreal, Quebec, Canada.

CAMPISI, P

- 2016 Apr Invited Speaker. National Research Projects Lessons Learned. Canadian Pediatric Otolaryngology Academic Day. Montreal. Quebec, Canada.
- 2015 May Invited Speaker. Impact of Vaccination on Juvenile Onset Recurrent Respiratory Papillomatosis Surveillance in Canada. Melvin Schloss Day, McGill University. Montreal, Quebec, Canada.

GANTOUS, A

2016 Mar Faculty and Invited Speaker. The Social Concept of Beauty. McGill University Otolaryngology Update, Mt. Tremblant, Quebec, Canada.

LEE, J

2015 Sep Invited Speaker. Pre- and Post-Operative Management in Endoscopic Sinus Surgery. McGill University North American Masterclass in Endoscopic Sinus Surgery. Montreal, Quebec, Canada.

NATIONAL MEETINGS (continued)

PROPST, E

2016 Mar	Invited Speaker. Panel discussion and presentation on pediatric sinusitis and its complications. 20th Annual McGill University CME Update in Otolaryngology. Dr. Lily Nguyen / Dr. Yolene Lacroix. Mont Tremblant,
	Quebec, Canada.
WITTERICK, I	
2015 Sep	Invited Lecturer. Endoscopic management of sinonasal tumours. North American Masterclasss in Endoscopic Sinus Surgery. Montreal, Quebec.

2015 Sep Facilitator. Vascular injuries. North American Endoscopic Management of Vascular Injuries Workshop, McGill University. Montreal, Quebec.

PROVINCIAL/LOCAL MEETINGS

ADAMSON, P

2015 Oct Invited Speaker. The Graduated Face and Neck Lift. Canadian Academy of Facial Plastic and Reconstructive Surgery Annual Clinical Day. Toronto, Ontario.

ANDERSON, J

- 2016 Jun Invited Speaker. OSLA, Toronto, Ontario, Canada. Presenter(s): Dr. Jennifer Anderson. Framework Surgery: Paralysis, PD, and the Aging Voice.
- 2015 Nov Invited Speaker. Vocal Cord Dysfunction. University of Toronto 10th Annual Day in Respirology, Toronto, Ontario, Canada.

ASARIA, J

- 2016 Jun Invited Speaker. Complex facial reconstruction. The University of Toronto Skin Cancer and Facial Aesthetics Conference, Toronto, Ontario.
- 2016 Jun Invited Speaker. Cosmetic filler injection techniques. The University of Toronto Skin Cancer and Facial Aesthetics Conference, Toronto, Ontario.
- 2016 Feb Panel member. How to reconstruct this facial defect. The University of Toronto Otolaryngology-Head & Neck Surgery Update, Asaria J, Gilbert R, Moore C, Enepekides, D. Toronto, Ontario.
- 2015 Nov Invited Speaker. Using Vycross technology to optimize patient results with injectable fillers—Voluma, Volbella, and Volift. The Allergan Academy Peer to Peer Training Course, Asaria J. Toronto, Ontario.
- 2015 Nov Invited Speaker. Safe facial filler injection techniques and human cadaver dissection training course. The Allergan Academy Course, Toronto, Ontario.

BRADLEY, G

2015 Oct Guest Lecturer. Oral Cancer. Invited lecture to 4th year undergraduate students, York University BIOL4010 Biology of Cancer, Toronto, Ontario. Course Director: Dr. Keith Wheaton.

BRANDT, M

2016 Jun Invited Lecturer. Caring for Skin Cancer and the Aging Face in Family Practice. Planning for Skin Cancer Excision. Toronto, Ontario, Canada.

PROVINCIAL/LOCAL MEETINGS (continued)

2016 Feb	Invited Lecturer. University of Toronto Septorhinoplasty Update. Functional Rhinoplasty: evidence based management of poor nasal breathing. Toronto, Ontario, Canada.
BROWN, D 2016 May	Invited Lecturer. Management of Acute Vertigo. Presentation to Family Physicians and Residents. Approach to diagnosis and treatment. Educational Rounds, Department of Family Medicine, University of Toronto.
CAMPISI, P 2016 Feb	Faculty. Are We Ready for Competency Based Residency Training? The 14 th Annual Otolaryngology – Head & Neck Surgery Update 2016. Presenter(s): Chiodo A, Campisi P.
2015 Nov	Faculty. Faculty Development Event: The New Competency by Design Residency Curriculum. Princess Margaret Hospital, Toronto, Ontario, Canada.
2015 Mar	Invited Lecturer. Management of Sialorrhea in Children. Hospital for Sick Children Diagnostic Imaging Interventional Radiology Lecture Series. Toronto, Ontario, Canada.
CHAN, Y 2016 May	Invited Speaker. OSA in Children. Trillium Health Partners Post Anesthetic Care Unit Nursing Rounds. Mississauga, Ontario, Canada.
2015 Sep	Course Instructor. North American Masterclass in Endoscopic Sinus Surgery. McGill University, Department of Otolaryngology. Montreal, Quebec, Canada.
CHEPEHA, D 2016 May	Presenter. Window-of-Opportunity Pre-Operative Pharmacodynamic Study of HDAC Inhibition and Immune Checkpoint Inhibitor (PRIMED Study). 18th Annual Wharton/Elia Day with the Sullivan Lecturer. Toronto, Ontario, Canada. Presenter(s): Chepeha DB, Prawira A.
de ALMEIDA, J 2015 Oct	Invited Lecturer. Sinonasal Anatomy. Laughed Microsurgical Neurosurgery Course. Toronto, Ontario, Canada.
ELLIS, D 2016 Feb	Invited Faculty. Injectable Nasal Fillers. Septorhinoplasty Update 2016 – Consensus and Controversies. Toronto.
2015 Oct	Invited Faculty. Panel: Skin Rejuvenation, Neurotoxins, Fillers. Canadian Academy of Facial Plastic & Reconstructive Surgery Annual Meeting, Toronto.
ENEPEKIDES, D 2015 Aug	Invited Lecturer. Principles of Operative Treatment of Craniomaxillofacial Trauma and Reconstruction. AO CMF North America. Toronto, Ontario, Canada. Presenter(s): Danny Enepekides.
FALLS, C 2016 June	Lecturer. Vestibulo-ocular reflex testing (lateral, anterior, posterior SCC's). 2nd Annual Comprehensive Practical Vestibular Assessment Course. Toronto, ON.
2016 Apr	Invited Lecturer. Introduction to vestibular assessment. Full-day seminar for upper-year audiology students. Western University, School of Communication Sciences & Disorders. London, ON.

PROVINCIAL/LOCAL MEETINGS (continued)

2016 Jan	Invited Lecturer. Vestibular assessment. University of Toronto, Department of Otolaryngology – Head & Neck Surgery. Toronto, ON.
2016 Jan	Invited Panel Member. Audiology and Related Professions Career Panel. Research and Service Learning in Communication Sciences and Disorders. University of Toronto, Department of Speech-Language Pathology. Toronto, ON.
2016 Jan	Invited Presenter. Audiogram of the Month. University of Toronto, Department of Otolaryngology – Head & Neck Surgery. Toronto, ON.
FREEMAN, J 2016 May	Ultrasound for the Head and Neck Surgeon. Department of Otolaryngology-Head & Neck Surgery Poliquin Day, Department of Otolaryngology – Head & Neck Surgery, University of Ottawa.
2016 May	Resident Teaching. Department of Otolaryngology-Head &Neck Surgery Poliquin Day, Department of Otolaryngology – Head & Neck Surgery, University of Ottawa.
2016 May	Judging Resident Research. Department of Otolaryngology-Head &Neck Surgery Poliquin Day, Department of Otolaryngology – Head & Neck Surgery, University of Ottawa.
2016 Feb	Challenging Cases: Navigating Around Landmines. Panel - The 14 th Annual Otolaryngology-Head & Neck Surgery Update 2016, University of Toronto, Toronto, Canada.
2016 Feb	Management of Hyperparathyroidism. The 14 th Annual Otolaryngology-Head & Neck Surgery Update 2016, University of Toronto, Toronto, Canada.
2016 Feb	Panel Discussion and Q & A. The 14 th Annual Otolaryngology-Head & Neck Surgery Update 2016, University of Toronto, Toronto, Canada.
2015 Nov	Organizer. ACS Course as part of Current Concepts in Head and Neck Surgery Course, Department of Otolaryngology- Head & Neck Surgery, University of Toronto, Toronto, Ontario.
GANTOUS, A	
2016 Feb	Faculty. Nasal Tip Grafts. Septorhinoplasty Update 2016, University of Toronto.
2016 Feb	Faculty. Nasal Dorsal Grafts. Septorhinoplasty Update 2016, University of Toronto.
2016 Feb	Faculty. Nasal Valve Surgery. Septorhinoplasty Update 2016, University of Toronto.
2015 Oct	Faculty, Rhinoplasty Panel (Ethnic Rhinoplasty Pearls). Facial Plastic and Reconstructive Surgery 2015: Pearls and Panels, CAFPRS.
GORDON, K	
2016 Jun	Invited speaker. Consequences of treating childhood hearing loss one ear at a time. Knowledge Exchange Forum, The Hospital for Sick Children. Toronto, Canada.
2015 Nov	Invited speaker. The importance of early bilateral hearing in development: evidence from children using cochlear implants. Biannual Conference on Child Development. Holland Bloorview Kids Rehabilitation Hospital. Toronto, Ontario, Canada.

GOLDSTEIN, D

PROVINCIAL/LOCAL MEETINGS (continued)

2016 Mar Invited Speaker. Approach to Head and Neck Mass. Canadian General Surgery Review Course. Toronto, Ontario, Canada. **GULLANE, P** 2016 Apr Invited Speaker. Skull Base Surgery - Thirty Years of Evolution and Revolutions. The Hudson Lecture- Toronto Western, Canada, HARRISON, R 2016 Jan Invited Speaker/Faculty. Challenges and Innovations in Deep Tissue Imaging: from clearing to data processing. SickKids Research Institute. Symposium: Focus on Imaging Symposium. Toronto, Ontario. Carraro M and Harrison RV. IRISH, J 2015 Nov Instructor/Demonstrator. Thyroid and Parathyroid Ultrasound Course. American College of Surgeons. Toronto, Ontario, Canada. LEE, A 2016 Apr Invited Speaker. Ear Infections, Treatment and Prevention. Civic Promoters. Toronto Ontario. LEE, J 2016 May Invited Speaker. Nasal Polyposis and the United Airways. Novartis. Ontario, Canada. 2016 Apr Invited Speaker. Nasal Polyposis and the United Airways. Toronto East Respirology Journal Club. Toronto, Ontario, Canada. Invited Speaker. Nasal Polyposis and the United Airways. Division of Allergy and Clinical Immunology City 2015 Nov Wide Teaching Rounds, St. Michael's Hospital, University of Toronto, Toronto, Ontario, Canada. Invited Speaker. Managing Concomitant Asthma, Allergic Rhinitis and Chronic Rhinosinusitis. Merck. Toronto, 2015 Sep Ontario, Canada. LIN, V 2016 Apr Invited Speaker. What is a Cochlear Implant? Brain Sciences, Sunnybrook Research Institute. Toronto, Ontario, Canada. 2016 Feb Invited Speaker. How I Do It: Vibrant Soundbridge and Bonebridge Implants. Otolaryngology Update, Dept. of Otolaryngology-Head & Neck Surgery, University of Toronto, Toronto, Ontario, Canada. 2015 Nov Invited Speaker. My Medical Mission Trip to Kijabe, Kenya. Otolaryngology-Head & Neck Surgery, Sunnybrook Health Sciences Centre. Toronto, Ontario, Canada. 2015 Oct Panelist. Cochlear Implant: Advances Panel. Canadian Academy of Audiology. Niagara Falls, Ontario, Canada. 2015 Oct Invited Speaker. Cochlear Implants and Steroids: The Whole Story. Canadian Academy of Audiology. Niagara Falls, Ontario, Canada. LIU, FF

2016 May Invited Speaker. Mitigating Radiation Fibrosis with Adipose Derived Stromal Cells. Ontario Cancer Institute. Ontario, Canada.

PROVINCIAL/LOCAL MEETINGS (continued)

MARTINO, R

2015 Oct	Invited Speaker: Videofluoroscopy: Fifteen versus Thirty Frames per Second. University Health Network and
	TIMS International Dysphagia Interest Group. Toronto, Ontario, Canada.

MONTEIRO, E

- 2016 June Invited Lecturer. Basics of FESS. Toronto Head and Neck Imaging Course. Toronto, Ontario, Canada.
- 2016 June Invited Lecturer. Geriatric Hearing Loss. 2016 Geriatric Institute. Toronto, Ontario, Canada.
- 2016 Feb Invited Lecturer. To err is human. 14th Annual Otolaryngology-Head & Neck Surgery Update 2016, University of Toronto. Toronto, Ontario. Presenter(s): Witterick IJ, Monteiro E.
- 2016 Feb Invited Lecturer. Balloon Sinuplasty. Otolaryngology Head & Neck Surgery 2016 Update. University of Toronto.
- 2016 Jan Invited Lecturer. The Maxillary Sinus and Dental Implantation. The Faculty of Dentistry Periodontology Program. University of Toronto.
- 2015 Oct Invited Lecturer. Can you hear me? Hearing loss in the elderly. 2015 MSH/UHN Geriatrics Update. Toronto, Ontario, Canada.

NG, R

2015 Oct 1. Management of OSA. 2. CPAP & Surgical Options. 3. Case studies and Panel Discussion- PAP Treatment & Surgical Intervention. Dr. Raymond Ng, Dr. Stephen Glazer & Dr. Tina Meisami. Planning Committee and Course Director. Current Management of Sleep Disorders- A Comprehensive Update. Toronto, Ontario, Canada.

PROPST, E

- 2016 Apr Invited Speaker. Childhood Arthritis and Rheumatology Research (CARRA). Dr. Sivia Lapidus. Toronto, Ontario, Canada. Presenter(s): Evan Propst and Greg Licameli (Boston Children's). Lecture and contribution as part of planning committee for clinical pathway development.
- 2015 Nov Invited Speaker. Canadian Pediatric Anaesthesia Symposium (CPAS). Dr. Connor McDonell. Toronto, Ontario, Canada. Presenter(s): Evan Propst, Reshma Amin, Indra Narang, Connor McDonell. Pediatric Obstructive Sleep Apnea.
- 2015 Nov Invited Speaker. Canadian Association of Emergency Physicians. Dr. Mark Mensour. Toronto, Ontario, Canada. Presenter(s): Evan Propst. Emergencies in Pediatric Otolaryngology.
- 2015 Sep Invited Speaker. Bay of Quinte Dental Society. Dr. Gordon Bunt. Belleville, Ontario, Canada. Presenter(s): Evan Propst. Lecture on sleep apnea as it pertains to dentists.

SOLOMON, P

- 2016 Jun Faculty. The Aging Face. Skin Cancer and Facial Aesthetics Day. Department of Otolaryngology-Head & Neck Surgery, Department of Dermatology, University of Toronto. Toronto, Ontario, Canada.
- 2016 Feb Faculty. Ethnic Rhinoplasty. Septorhinoplasty Update 2016 Consensus and Controversies Course. Department of Otolaryngology-Head & Neck Surgery, University of Toronto. Toronto, Ontario, Canada.

PROVINCIAL/LOCAL MEETINGS (continued)

2015-2016	Faculty. Annual Rhinoplasty Course for Residents, Department of Otolaryngology-Head & Neck Surgery, University of Toronto. Toronto, Ontario, Canada.
WITTERICK, I 2016 Feb	Panel Moderator. Challenging cases: Navigating around landmines. 14th Annual Otolaryngology-Head & Neck Surgery Update 2016, University of Toronto. Toronto, Ontario. Presenter(s): Witterick IJ with Freeman JL, Chen J.
2016 Feb	Invited Lecturer. To err is human. 14th Annual Otolaryngology-Head & Neck Surgery Update 2016, University of Toronto. Toronto, Ontario. Presenter(s): Witterick IJ, Monteiro E.
ZADEH, G 2016 Jan	Speaker. Clinical and Research of NF1. University of Toronto. Toronto, Ontario, Canada. University of Toronto Genetics Rounds Grand Rounds.
2015 Dec	Speaker. PMH Faculty Lunch 2015. Princess Margaret Cancer Centre. Toronto, Ontario, Canada.

Papers Presented at Conferences/Society Meetings

INTERNATIONAL MEETINGS

CANADA (International Meetings in Canada)

CAMPISI, P

2015 May Simulation-Based Workshop on Teamwork Skills for Otolaryngology, Anesthesiology and Nursing: Resources, Challenges and Impact. 7th International Pediatric Simulation Symposia and Workshops. Vancouver, British Columbia, Canada. Presenter(s): Ng E, Roy WL, Campisi P, Forte V, Propst E, Everett T. Poster Presentation.

CHEN, J

- 2016 May Presenter. Adaptation to a sequentially implanted Cl in an adult population: can the rate and degree of improvement of the second implant be suspending the use of the first Cl? 14th International Conference on Cochlear Implantation (Cl2016). Toronto, Ontario, Canada. Presenter(s): Kari Smilsky, MA(Aud), L Smith, D Shipp, J Chen, et al.
- 2016 May Presenter. Full versus partial electrode usage in MedEl Flex-soft and Flex-28 users. 14th International Conference on Cochlear Implantation (Cl2016). Toronto, Ontario, Canada. Presenter(s): David Shipp, MA(Aud), K Smilsky, J Chen, et al.
- 2016 May Presenter. Comparing cochlear duct length versus electrode insertion depth-does it really impact hearing preservation? 14th International Conference on Cochlear Implantation (Cl2016). Toronto, Ontario, Canada. Presenter(s): V Lin, D Shipp, A Ng, J Chen, et al.
- 2016 May Presenter. Semi-implantable active bone conduction device for conductive/mixed hearing loss and single sided deafness: performance and QOL at 12 months. 14th International Conference on Cochlear Implantation (Cl2016). Toronto, Ontario, Canada. Presenter(s): Julija Adamonis, MA(Aud), Leah Smith, K Williams, J Chen, et al.
- 2016 May Presenter. The effect of music rehabilitation in adult CI recipients on music perception, enjoyment and speech perception. 14th International Conference on Cochlear Implantation (Cl2016). Toronto, Ontario, Canada. Presenter(s): Leah Smith, MSc.
- 2016 May Presenter. Cl in patients with single sided deafness of short duration. 14th International Conference on Cochlear Implantation (Cl2016). Toronto, Ontario, Canada. Presenter(s): Kari Smilsky, MA(Aud).
- 2016 May Presenter. The impact on cost-effectiveness viewed through a sensitivity analysis in adult bilateral cochlear implantation. 14th International Cochlear Implantation Conference (Cl2016). Toronto, Ontario, Canada.
- 2016 May Moderator. Advocacy/Cost Effectiveness. 14th International Conference on Cochlear Implantation (Cl2016). Toronto, Ontario, Canada.

CUSHING, S 2016 May Presenter. Initial North-American experience with a thin, peri-modiolar electrode array in the pediatric population. American Cochlear Implant Alliance Cl2016 International. Toronto, Ontario, Canada. Presenter(s): Cushing SL, Gordon KA, Polonenko MJ, Papsin BC. 2016 May Presenter. Use of a novel pedestaled cochlear implant design is an efficient strategy for implant retention in pediatric patients. American Cochlear Implant Alliance Cl2016 International. Toronto, Ontario, Canada. Presenter(s): Cushing SL, Parkes W, James AL, Gordon KA, Papsin BC. **GORDON, K** 2016 May Music training improves perception of emotion and music in children using bilateral cochlear implants or bimodal devices. 14th International conference on cochlear implants and other implantable technologies, Toronto, Canada. 2016 May Development of the right hemispheric cortical specialization to tone-bursts from early childhood to adolescence in normal hearing subjects. 14th International conference on cochlear implants and other implantable technologies, Toronto, Canada. Presenter(s): Yamazaki, H, Easwar, V., Papsin, BC, Gordon, KA. Contextual deficits in perception of Subjective Visual Vertical in children with cochlear implants. 14th 2016 May International conference on cochlear implants and other implantable technologies, Toronto, Canada. Presenter(s): Joshua J. Gnanasegaram, William J. Parkes, Sharon L. Cushing, Carmen L. McKnight, Blake C. Papsin, Gordon, KA. The nature of listening environments during cochlear implant use varies with children's ages. 14th 2016 May International conference on cochlear implants and other implantable technologies, Toronto, Canada. Pediatric bimodal users: who are they? 14th International conference on cochlear implants and other 2016 May implantable technologies, Toronto, Canada. 2016 May Use of a novel pedestaled cochlear implant design is an efficient strategy for implant retention in pediatric patients. 14th International conference on cochlear implants and other implantable technologies, Toronto, Canada. 2016 May Initial North American Experience with a Thin, Peri-Modiolar Electrode Array in the Pediatric Population. 14th International conference on cochlear implants and other implantable technologies, Toronto, Canada. SMILSKY, K Adaptation to a Sequentially Implanted Cochlear Implant in an Adult Population: Can the Rate and Degree of 2016 May Improvement of the Second Cochlear Implant be Improved by Suspending the Use of the First Cochlear Implant?. Cl2016, 14th International Conference on Cochlear Implants and Other Implantable Technology. Toronto, Canada. Smilsky, K., Smith, L., Shipp, D., Ng, A., Millman, T., Stewart, S. Cochlear Implantation in Patients with Single Sided Deafness of Short Duration Cl2016. 14th International 2016 May Conference on Cochlear Implants and Other Implantable Technology. Toronto, Canada. Smilsky, K., Smith, L., Millman, T., Joglekar, S., Shipp, D., Chen, J., Lin, V., Nedzelski, J.

ITALY

de ALMEIDA, J

2016 Apr The prognostication of tumor volume and lower neck lymph nodes in laryngeal cancer treated with IMRT. 2016 European Society for Therapeutic Radiology and Oncology (ESTRO) Annual Meeting. Turin, Italy. Presenter(s): Huang SH, Su J, Waldron J, Kim J, Bayley A, Bratman SV, Cho J, Hope A, Giuliani M, Ringash J, Hansen A, de Almeida JR, Tong L, Xu W, O'Sullivan B.

GOLDSTEIN, D

2016 Apr Impact of comorbidity, polypharmacy and HPV status in elderly patient with oropharyngeal cancer. 2016 European Society for Therapeutic Radiology and Oncology (ESTRO) Annual Meeting. Turin, Italy. Presenter(s): Caparrotti F, Huang SH, Ringash J, Song Y, Bayley A, Bratman S, Cho J, Giuliani M, Hope A, Kim J, Waldron J, Hansen A, Goldstein D, Perez-Ordonez B, Weinreb I, Tong L, Xu W, O'Sullivan B.

HARRISON, R

2015 Sept Cochlear blood vessel damage in a mouse model of CMV infection. Presentation at Workshop on Inner Ear Biology. Carraro M, Park A, Harrison RV. Rome, Italy.

JAPAN

JAMES, A

2015 Jul Presenter. Development of petro-mastoid pneumatization in normal ears and cholesteatoma. 30th Politzer Society Meeting. Niigata, Japan. Presenter(s): James AL, Papsin B, Cushing S.

KOREA

CUSHING, S

- 2016 Jun Presenter. Restoration of Vestibular Responsiveness Using Cochlear Implant Stimulation In a Large Pediatric Cohort. Barany Society Meeting. Korea, Korea, Democratic People's Republic Of. Presenter(s): Cushing SL, Parkes WJ, Gnanasegaram JJ, McKnight CL, Papsin BC, Gordon KA.
- 2016 Jun Presenter. Behavioural Perception of Vertical Improves with Cochlear Implant Stimulation in a Large Pediatric Cohort. Barany Society Meeting. Korea, Korea, Democratic People's Republic Of. Presenter(s): Cushing SL, Gnanasegaram JJ, Parkes WJ, McKnight CL, Papsin BC, Gordon KA.

PORTUGAL

CUSHING, S

- 2016 Jun Presenter. Congenital Cytomegalovirus (cCMV): prevalence, diagnosis, audiologic consequences and implications for screening. 13th congress of the European Society of Pediatric Otorhinolaryngology. Lisbon, Portugal. Presenter(s): Cushing SL, Gordon KA, Carinci L, Papaioannou V, Papsin BC.
- 2016 Jun Presenter. Reducing surgical time and cost through the use of a novel pedestaled cochlear implant design in children. 13th congress of the European Society of Pediatric Otorhinolaryngology. Lisbon, Portugal. Presenter(s): Cushing SL, Parkes W, James AL, Gordon KA, Papsin BC.

UNITED KINGDON

JAMES, A

2016 Jun Presenter. Climbing up the learning curve in endoscopic ear surgery. 10th International Conference on Cholesteatoma and Ear Surgery. Edinburgh, United Kingdom.

UNITED STATES

ASARIA, J

- 2016 May Rhinophyma treatment outcomes. Ellis DAF. Poster Presentation Combined Otolaryngology Spring Meeting, Jumaily JS, Asaria J, Alexander A. Chicago, Illinois.
- 2015 Oct Novel injectable fillers-the Canadian experience. Oral presentation at the American Academy of Facial Plastic Surgery Fall Meeting, Asaria J. Dallas, Texas.

BRADLEY, G

2015 Sept Topical 5-fluorouracil – A novel therapeutic treatment option for the Keratocystic Odontogenic Tumour. Annual meeting of the American Association of Oral and Maxillofacial Surgeons, Washington, DC. Ledderhof, N., Caminiti, M.F., Bradley, G. and Lam, D.K.

CUSHING, S

- 2016 Jan Restoration of Clinically Absent Vestibular Evoked Myogenic Potentials Using Electrical Stimulation from Cochlear Implants. Triologic Society Combined Section Meeting. Miami, Florida, United States. Presenter(s): Parkes WJ, Gnanasegaram JJ, Cushing SL, McKnight CL, Papsin BC, Gordon KA.
- 2015 Dec Detection of Congenital Cytomegalovirus (Ccmv): Audiologic Consequences And Implications For Screening. SENTAC. San Antonio, Texas, United States. Presenter(s): Papaioannou V, Gordon KA, Papsin BC, Cushing SL.

dE ALMEIDA, J

- 2016 Feb Intraoperative image Guidance in Transoral Robotic Surgery A Pilot Study. North American Skull Base Society. Scottsdale, Arizona, United States. Presenter(s): Andrew Ma, Michael Daly, Jimmy Qiu, Harley Chan, David P. Goldstein, John R. de Almeida.
- 2016 Feb Preferences and Utilities for Health States after Treatment of Olfactory Groove Meningioma: Endoscopic vs. Open. Scottsdale, Arizona, United States. Presenter(s): Christopher Yao, Alyssa Kahane, David Goldstein, Gelareh Zadeh, John de Almeida.
- 2016 Feb Impact of Dural Resection on Sinonasal Malignancy with Skull Base Encroachment. North American Skull Base Society. Scottsdale, Arizona, United States. Presenter(s): Hedyeh Ziai, Terence Fu, Eugene Yu, David Goldstein, Eric Monteiro, Allan Vescan, Ian Witterick, Gelareh Zadeh, Fred Gentili, John de Almeida.

GOLDSTEIN, D

2016 Apr A Systematic Review of Unmet Information Needs of Adults Diagnosed with Thyroid Cancer. ENDO Annual Meeting 2016. Boston, Massachusetts, United States. Presenter(s): Alhashemi A, Hyun YG, Fazelzad R, Naeem A, Goldstein DP, and Sawka AM.

INTERNATIONAL MEETINGS (continued)

2015 Oct	Risk Stratification for Relapse in Human Papillomavirus-unrelated Oropharyngeal Carcinoma Treated with Definitive Radiation Therapy with or without Chemotherapy . American Society for Therapeutic Radiology and Oncology (ASTRO) 57th Annual Meeting. San Antonio, Texas, United States. Presenter(s): Huang SH, Waldron J, Jie Su, Tong L, Bayley AJ, Bratman S, Cho J, Giuliani ME, Hope AJ, Kim JH, Ringash JG, Hansen A, Goldstein D, Perez-Ordonez B, Weinreb I, Xu W, Liu FF, O'Sullivan B.
2015 Oct	Reaffirming Metastatic Risk Profiles in Human Papillomavirus-related Oropharyngeal Cancer Following Definitive Radiation Therapy with or without Chemotherapy. American Society for Therapeutic Radiology and Oncology (ASTRO) 57th Annual Meeting. San Antonio, Texas, United States. Presenter(s): O'Sullivan B, Huang SH, Waldron J, Jie Su, Bayley A, Bratman S, Cho J, Giuliani ME, Hope AJ, Kim JH, Ringash JG, Hansen A, Goldstein D, Tong L, Perez-Ordonez B, Weinreb I, Liu FF, Xu W.
2015 Oct	Natural Course Following Failure After Definitive Chemo-radiation Therapy in HPV-related and HPV- unrelated Oropharyngeal Cancer. American Society for Therapeutic Radiology and Oncology (ASTRO) 57th Annual Meeting. San Antonio, Texas, United States. Presenter(s): Rathod S, Huang SH, Kim JH, Su S, Xu W, Waldron JN, Bayley A, Bratman S, Cho J, Giuliani ME, Hope AJ, Ringash JG, Hansen A, Goldstein D, Tong L, Perez-Ordonez B, Weinreb I, O'Sullivan B.
2015 Oct	Outcome Predictors for Major Salivary Gland Carcinoma Following Postoperative Radiation Therapy. American Society for Therapeutic Radiology and Oncology (ASTRO) 57th Annual Meeting. San Antonio, Texas, United States. Presenter(s): Hosni A, Huang SH, Goldstein D, Xu W, Chan B, Hansen A, Bayley A, Bratman S, Cho J, Giuliani ME, Hope AJ, Kim JJ, O'Sullivan B, Waldron J, Ringash JG.
2015 Oct	Clinical Outcomes Following Reirradiation in Head and Neck Cancers in the Intensity Modulated Radiation Therapy Era. American Society for Therapeutic Radiology and Oncology (ASTRO) 57th Annual Meeting. San Antonio, Texas, United States. Presenter(s): Ramasamy S, Jie S, Huang SH, Xu W, Waldron J, O'Sullivan B, Cho J, Hope AJ, Bayley A, Kim JJ, Ringash JG, Bratman S, Jang R, Goldstein D, Giuliani ME.
2015 Oct	Impact of Surgical Margins on Outcomes in Oral Cavity Squamous Cell Carcinomas Following Postoperative Intensity Modulated Radiation Therapy. American Society for Therapeutic Radiology and Oncology (ASTRO) 57th Annual Meeting. San Antonio, Texas, United States. Presenter(s): Hosni A, Huang SH, Xu W, Bayley A, Bratman S, Cho J, Giuliani ME, Kim JJ, Ringash JG, Waldron J, Goldstein D, Chen E, O'Sullivan B, Hope AJ.
GORDON, K 2016 Feb	Cortical representation of bilaterally presented sounds in children with two cochlear implants. Conference of the Association for Research in Otolaryngology, San Diego, CA. Abstract won trainee travel award. Easwar, V., Deighton, MR, Abbasalipour, P., Yamazaki, H., Polonenko, MJ, Papsin, BC, Gordon, KA.
2016 Feb	Perception of Binaural Level and Timing Cues in Children with Early Bimodal Use Compared to Bilaterally Implanted Children. Conference of the Association for Research in Otolaryngology, San Diego, CA. Abstract won trainee travel award. Polonenko, MJ, Deighton, MR, Abbasalipour, P., Papsin, BC, Gordon, KA.
2015 Jan	Restoration of Clinically Absent Vestibular Evoked Myogenic Potentials Using Electrical Stimulation from Cochlear Implants, The Triological Society, 2016 Combined Sections Meeting, Miami Beach, FL, Parkes, WJ, Gnanasegaram JJ, Gordon KA., McKnight CL, Papsin BC, Cushing SL.
2015 Dec	Cochlear Implant Datalogging Reveals the Practical Challenges of CI Use in Children: the Frequent Coiloff. Annual Conference of the Society Ear Nose and Throat Advances in Children. San Antonio, TX. Easwar, V, Papsin, BC, Gordon, KA.

2015 Dec	Electrical stimulation from a cochlear implant shifts the perception of visual vertical toward normal in children. Annual Conference of the Society Ear Nose and Throat Advances in Children. San Antonio, TX. Gnanasegaram JJ, Parkes, WJ, Cushing SL, McKnight CL, Papsin BC, Gordon KA.
2015 Dec	Detection of congenital Cytomegalovirus (cCMV): audiologic consequences and implications for screening. Annual Conference of the Society Ear Nose and Throat Advances in Children. San Antonio, TX. Papaioannou, V, Gordon, KA, Papsin, BC, Cushing, SL.
2015 Aug	Stimulating the vestibular system with cochlear implants in children. Scientific meeting of the Collegium Oto-Rhinolaryngologicum Amicitiae Sacrum. Podium presentation. San Francisco, CA. Papsin, BC, Cushing, SE, Parkes, W, Gnanasegaram, J, Gordon, KA.
2015 Aug	Developmental protection of aural preference in children with asymmetric hearing loss through bimodal hearing. Scientific meeting of the Collegium Oto-Rhinolaryngologicum Amicitiae Sacrum. Podium presentation. San Francisco, CA. Polonenko, M, Papsin, BC(presenter), Gordon, KA.
HARRISON, R 2015 Aug	A murine model of CMV infection: effects on cochlear blood vessels. Harrison RV, Park A, Carraro M. Podium presentation: at Collegium Meeting (CORLAS). San Francisco CA, United States.
IRISH, J 2016 Mar	Quantitative Fluorescence Imaging using Intraoperative Cone-Beam CT Imaging Priors. 8th Image-Guided Therapy Workshop. Bethesda, Maryland, United States. Presenter(s): Daly MJ, Irish JC, Wilson B, Jaffray D.
2016 Mar	Automatic Registration in Navigated Bone Tumor Surgery using Intraoperative Cone-Beam CT. 8th Image- Guided Therapy Workshop. Bethesda, Maryland, United States. Presenter(s): Arkhangorodsky M, Qiu J, Daly MJ, Nayak P, Weersink R, Chan H, Jaffray D, Irish JC, Wunder J.
2015 Oct	Tumor size as Prognostic Factors in Squamous Cell Carcinoma of the Nasal Vestibule. American Society for Therapeutic Radiology and Oncology (ASTRO) 57th Annual Meeting. San Antonio, Texas, United States. Presenter(s): Atean I, Huang SH, Waldron J, Song Y, Xu W, Bayley AJ, Bratman S, Cho J, Giuliani ME, Hope AJ, Kim JJ, Ringash JG, Irish J, O'Sullivan B.
LAUGHLIN, S 2016 May	Embryonal tumor with multilayered rosettes: Correlation between Radiographic, Clinical, Histopathologic, and Molecular Findings. American Society of Neuroradiology 54 th Annual Meeting. Washington DC, United States. Oral Paper Presentation. Pavaine J, Huang A, Sin-Chan P, Laughlin S.
LEE, J 2016 May	Successful repair of intraoperative CSF leaks improves outcomes in endoscopic skull base surgery. American Rhinologic Society Spring Meeting. Chicago, Illinois, United States. Presenter(s): Arash Shahangian, Zachary Soler, Andrew Baker, Sarah Wise, Shruthi K Rereddy, Zara M Patel, Nelson M Oyesiku, John DelGauidio, Constantinos G. Hadjipanayis, Bradford A. Woodworth, Kristen O. Riley, John M. Lee, Michael D. Cusimano, Satish Govindaraj, Alkis Psaltis, Peter John Wormald, Stephen Santoreneos, Raj Sindwani, Samuel Trosman, Janalee K. Stokken, Troy D. Woodard, Pablo F. Recinos, W. Alexander Vandergrift, Caitlin Boling, Rodney J. Schlosser.

INTERNATIONAL MEETINGS (continued)

MARTINO, R

- 2016 Feb Longitudinal changes in the swallow status of head and neck cancer patients treated with systemic therapy and radiotherapy (RT): Results of a swallowing substudy of NCIC CTG HN.6 (NCT00820248). Dysphagia Research Society Annual Meeting. Tucson, Arizona, United States. Presenter(s): Martino R, Shaw S, Greco E, Barker J, Durkin L, Gomes A, Nault C, Gantefoer A, Waldron J, Siu L, Gilbert R, Montenegro-Suris A, Parulekar W, O'Sullivan B, Chen B, Ringash J.
- 2015 Nov Implications of endotracheal intubation and mechanical ventilation on swallowing. American Speech-Language-Hearing Association Annual Convention. Denver, Colorado, United States. Presenter(s): Skoretz S, Martino R.

MONTEIRO, E

- 2016 Feb Podium Presentation. A Validation Study Evaluating the Role of Simulation in Endoscopic Skull Base Surgery. Klironomos G, Alobaid A, Gonen L, Monteiro E, Vescan A, Zadeh G, Gentili F. North American Skull Base Society 26th annual meeting. Scottsdale, AZ.
- 2016 Feb Podium Presentation. Impact of Dural and Olfactory Nerve Resection on Sinonasal Malignancies with Skull Base Encroachment. Ziai H, Fu T, Yu E, Goldstein D, Monteiro E, Vescan A, Witterick I, Zadeh G, Gentili F, de Almeida J. North American Skull Base Society 26th annual meeting. Scottsdale, AZ.

PAPAIOANNOU, V

2015 Dec Neonatal Blood Spot findings suggestive of Congenital Cytomegalovirus Infection in Children with Sensorineural Hearing Loss. Oral Presentation – Society for Ear, Nose and Throat Advances in Children, San Antonio, TX. Papaioannou V, Gordon, KA, Papsin BC, Cushing SL.

PAPSIN, B

- 2016 May Preliminary Experience with a Novel Cochlear Implant Designed to Improve Efficiency without Compromising Device Security. Program of the Annual Meeting of the American Society of Pediatric Otolaryngology (ASPO). Chicago, Illinois, United States. Presenter(s): Parkes WJ, Cushing, SL, Gordon KA, Polonenko, M, Papsin, BC.
- 2016 May Restoration of clinically absent vestibular myogenic potentials using electrical stimulation from cochlear implants. Program of the Triologic Combined Sections Meeting. Miami, Florida, United States. Presenter(s): Parkes WJ, Gnanasegaram JJ, Cushing SL, McKnight CL, Papsin BC, Gordon KA.
- 2015 Dec Cochlear implant datalogging reveals the practical challenges of Cl use in children: The frequent "coil-off". Program of the Annual Meeting of Society for Ear, Nose and Throat Advances in Children (SENTAC) 2015. San Antonio, Texas, United States. Presenter(s): Easwar V, Sanfilippo J, Papsin BC, Gordon KA.
- 2015 Dec Electrical stimulation from a cochlear implant shifts the perception of visual vertical towards normal in children. Program of the Annual Meeting of Society for Ear, Nose and Throat Advances in Children (SENTAC) 2015. San Antonio, Texas, United States. Presenter(s): Gnanasegaram J, Parkes WJ, Cushing SL, McKnight CL, Papsin BC, Gordon KA.
- 2015 Dec Detection of congenital cytomegalovirus (CCMV): Audiologic consequences and implications for screening. Program of the Annual Meeting of Society for Ear, Nose and Throat Advances in Children (SENTAC) 2015. San Antonio, Texas, United States. Presenter(s): Papaioannou V, Gordon KA, Papsin BC, Cushing SL.

2015 Dec	Radiographic assessment of the mastoid after canal wall up cholesteatoma surgery with or without mastoidectomy. Program of the Annual Meeting of Society for Ear, Nose and Throat Advances in Children (SENTAC) 2015. San Antonio, Texas, United States. Presenter(s): Parkes WJ, Cushing SL, Papsin BC, Blaser SI, James AL.
2015 Aug	Presenter. Developmental preference of aural preference in children with asymmetric hearing loss through bimodal hearing. Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum (CORLAS). San Francisco, California, United States. Presenter(s): Papsin BC, Gordon KA, Polonenko MJ.
2015 Aug	Presenter. Stimulating the vestibular system with cochlear implants in children. Collegium Oto-Rhino- Laryngologicum Amicitiae Sacrum (CORLAS). San Francisco, California, United States. Presenter(s): Papsin BC, Parkes WJ, Cushing SC, Gordon KA, Gnanasegaram J.
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PROPST, E 2016 May	Presenter. Fetoscopic balloon puncture and dilation followed by cricotracheal resection for complete laryngeal atresia. American Society of Pediatric Otolaryngology (ASPO). Chicago, Illinois, United States.
2015 Dec	Presenter. Midline Posterior Glossectomy and Lingual Tonsillectomy in Obese and Non Obese Children With Down Syndrome. Society for Ear Nose and Throat Advances in Children. San Antonio, Texas, United States.
RALHAN, R	
2016 March	Presenter. Early Detection of Oral Lesions with Dysplasia at High Risk of Cancer Development Using A Proteomic Signature Image Analysis Based Straticyte Test. The Global Oral Cancer Forum, New York. Ranju Ralhan, Russell Gu, Jason T.K. Hwang, Paul G. Walfish and Ken Pritzker.
2015 Nov	Presenter. ER maleate is a novel anticancer agent in oral cancer cells: Implications for cancer therapy. 2015 AACR-NCI-EORTC Molecular Targets and Cancer Therapeutics Conference, Boston, MA. David Fu Guodong, Fatima Jessa, Raj Thani Somasundaram, Gunjan Srivastava, Paul G. Walfish, Ranju Ralhan. David Fu Guodong.
ZIRKLE, M	
2015 Sep	Presenter. Breaking Barriers: A Governance Model for Successful Collaboration in an Academic Health Sciences Centre. Virginia, United States.

NATIONAL MEETINGS

BRITISH COLUMBIA

MARTINO, R

2015 Sep

Bio/accelerated radiotherapy does not durably improve quality of life (QOL) as compared with conventional chemoradiotherapy for locoregionally advanced squamous cell carcinoma of the head and neck (LA-SCCHN): Results of a phase III randomized trial. Canadian Association of Radiation Oncology Annual Scientific Meeting. Kelowna, British Columbia, Canada. Presenter(s): Ringash J, Waldron JN, Siu LL, Martino R, Winquist E, Wright JR, Nabid A, Hay JH, Hammond A, Sultanem K, Hotte S, Leong C, El-Gayed AAH, Naz F, Ramchandar K, OwenTE, Montenegro A, O'Sullivan B, Chen BE, Parulekar WR.

NATIONAL MEETINGS (continued)

PRINCE EDWARD ISLAND

CAMPISI, P

2016 Jun Objective Evaluation of Otoscopy Skills amongst Primary Care and Otolaryngology Residents. Poster Presentation, Canadian Society of Otolaryngology – Head & Neck Surgery Annual Meeting. Charlottetown, PEI, Canada. Presenter(s): Oyewumi M, Brandt MG, Carrillo B, Atkinson A, Iglar K, Forte V, Campisi P. ***Awarded 2nd prize for the Poster Competition.

HIGGINS, K

- 2016 Jun Presenter. Heat and Moisture Exchanger Reduces in-Hospital Complications Following Total Laryngectomy: A case control study. CSO-HNS. Charlottetown, Prince Edward Island, Canada.
- 2016 Jun Presenter. Staging Cutaneous Squamous Cell Carcinoma Metastases to the Parotid Gland. CSO-HNS. Charlottetown, Prince Edward Island, Canada.

MONTEIRO, E

- 2016 June Podium Presentation. Bensoussan Y, Roy M, Mader S, Witterick I, Vescan A, Freeman J, Monteiro E. Improving the perioperative patient experience: A web-based application guiding patients through their surgical experience. Canadian Society of Otolaryngology-Head & Neck Surgery 2016 Annual Meeting. Charlottetown, PEI, Canada.
- 2016 June Podium Presentation. Eskander T, Monteiro E, Irish J, Gullane P, Gilbert R, de Almeida J, Brown D, Goldstein D. Adherence to guideline-recommended process measures for squamous cell carcinoma of the head and neck in Ontario: Impact of surgeon and hospital volume. Canadian Society of Otolaryngology-Head & Neck Surgery 2016 Annual Meeting. Charlottetown, PEI, Canada.

QUEBEC

MARTINO, R

2016 Jun Predictors of dysphagia screening after acute ischemic stroke: Who gets tested? Congress of the Canadian Neurological Sciences Federation. Quebec City, QC, Canada. Awarded the CNS Francis McNaughton Memorial Prize for best submitted paper. Presenter(s): Joundi R, Martino R, Saposnik G, Fang J, Giannakeas V, Kapral MK.

ZIRKLE, M

- 2016 Apr Presenter. Breaking Barriers: A Governance Model for Successful Collaboration in an Academic Health Science Centre. Canadian Conference on Medical Education. Montreal, Quebec, Canada. Presenter(s): Molly Zirkle and Lindsay Beavers.
- 2016 Apr Presenter. Breaking Barriers: A Governance Model for Successful Collaboration in an Academic Health Sciences Centre. Canadian Conference on Medical Education. Quebec, Canada.

PROVINCIAL/LOCAL MEETINGS

ADAMSON, P

2016 Jun

Planning Committee, Skin Cancer and Aesthetic Dermatology Clinic, Division of Facial Plastic and Reconstructive Surgery, Department of OHNS, University of Toronto

PROVINCIAL/LOCAL MEETINGS (continued)

2016 Jun	Skin Cancer and Aesthetic Rejuvenation for the Family Doctor, Division of Facial Plastic and Reconstructive Surgery, Department of OHNS, University of Toronto. Topic: The Science of Beauty.
2016 Feb	Director, Septorhinoplasty Update 2016. Division of Facial Plastic and Reconstructive Surgery, Department of Otolaryngology – Head and Neck Surgery, University of Toronto Topics: Patient Selection in Rhinoplasty, Concepts and Techniques in Tip Rhinoplasty, Concepts and Techniques in Nasal Pyramid Surgery. Moderator.
IRISH, J	
2016 May	Developing a disease pathway map for the diagnostic process of soft tissue sarcomas. AARC Conference. Toronto, Ontario, Canada. Presenter(s): Wong A, McKay C, Hertz S, Catton C, Werier J, Irish J, Falkson C.
2016 May	Development and Validation of the Models of Care Approach to the Design and Delivery of Cancer Services. AARC Conference. Toronto, Ontario, Canada. Presenter(s): Beglaryan H, Liberty J, Gilbert J, Ross J, Irish J, Isaranuwatchai W, Chan I, Thompson L.
2016 May	Using a Modified Delphi Process to Identify Quality Indicators for the Provincial Sarcoma Services Program. AARC Conference. Toronto, Ontario, Canada. Presenter(s): McKay C, Wong A, Ghert M, Kandel R, Hertz S, Catton C, Irish J.
MARTINO, R	
2016 Jan	Benefits and risks of joining online support groups by laryngectomies, family and friends. Collaborative Academic Practice, Practice-Based Research and Innovation Day 2016, University Health Network. Toronto, Ontario, Canada. Presenter(s): Pothier, L., Cuglietta, L., Giacobbo, N., Martino, R.
2015 Sep	Aphasia frequency and outcomes across the continuum of care: A systematic review and meta-analysis. Canadian Stroke Congress. Toronto, Ontario, Canada. Presenter(s): Flowers, HL, Skoretz, SA, Silver, F, Rochon, E, Flamand-Roze, C, Fang, J, Mutlu, G, Martino, R.

The data provided within this annual report does not include information pertaining to faculty members: Julija Adamonis, Ashlin Alexander, Sumeet Anand, Saf Banglawala, Glen Beard, Greg Belchetz, Ida Bennett, Roman Chaban, Jerry Chapnik, Nitin Chauhan, Janet Chung, Kris Conrad, Dustin Dalgorf, Taryn Davids, Susan Druker, Ron Fenton, David Finkelstein, David Goldfarb, Gina Goulding, Aman Grewal, David Hacker, Jerry Halik, Theresa Holler, Robert Josephson, Anil Katyal, William Kaul, Jack Kolenda, Randy Leung, Bosco Liu, Lorie MacDonald, Berge Marcarian, Jeffrey Mendelsohn, Robert Mounsey, Karin Nazarali, Alfred Oh, Richard Rival, Lorne Segall, Manish Shah, Jack Shahin, David Shipp, Oakley Smith, Alma Smitheringale, Victor Toran, Adam Toth, Jeffrey Werger, Ken Williams, Jill Witte, Adrienne Wong.



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