

OTOLARYNGOLOGY
HEAD & NECK SURGERY

ANNUAL REPORT

21 22



Otolaryngology - Head & Neck Surgery
UNIVERSITY OF TORONTO

Leading Innovation. Achieving Impact

Edited By:
Dr. Ian J. Witterick

Acknowledgements To:
Sonia Valente
Audrea Martin

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Department of Otolaryngology– Head & Neck Surgery

Professor and Chair
Vice-Chair Education & Director of Postgraduate Education
Assistant Program Director
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
Director, Sleep Medicine

Dr. Ian J. Witterick
Dr. Paolo Campisi
Dr. Eric Monteiro
Dr. Allan Vescan
Dr. Brad Hubbard
Dr. John Lee

Dr. Yvonne Chan
Dr. Alain Dabdoub
Dr. Raymond Ng

Otolaryngologists-in-Chief

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

Dr. Blake Papsin
Dr. Bradley Hubbard (interim)
Dr. Everton Gooden
Dr. Ian J. Witterick
Dr. Danny Enepekides
Dr. Janet Chung (interim)
Dr. Andres Gantous
Dr. Yvonne Chan
Dr. Ralph Gilbert

Division Heads

Audiology
Facial Plastic and Reconstructive Surgery
Head and Neck Oncology and Reconstructive Surgery
Rhinology

Ms. Vicky Papaioannou
Dr. Andres Gantous
Dr. Jonathan Irish
Dr. John Lee

Committee Chair Holders

Executive
Undergraduate
Residency Program
Continuing Professional Development
Research
Department Appointments
Department Promotions
Budget Advisory
Community Academic Faculty
Advancement
Quality and Safety

Dr. Ian J. Witterick
Dr. Allan Vescan
Dr. Paolo Campisi
Dr. Yvonne Chan
Dr. Alain Dabdoub
Dr. Kevin Higgins
Dr. Karen Gordon
Dr. Ian J. Witterick
Dr. Janet Chung
Dr. Patrick J. Gullane
Dr. Danny Enepekides

Vision, Mission and Values

Vision

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

Mission

We prepare otolaryngology - head & neck surgical leaders, contribute to our communities, and improve health locally and globally through discovery, innovation and the equitable application and dissemination of knowledge.

Values

Excellence - in achieving the highest standards of scholarship, critical thinking, clinical practice and outcomes in otolaryngology - head & neck surgery

Respect - for the diverse ideas, rights, beliefs and perspectives of all learners, faculty, staff and communities with whom we engage

Professionalism and Integrity - in our conduct, manner and practice

Equity and Inclusion - promoting the inherent dignity of every human being and the just distribution of resources, needs and access to the benefit of society

Collaboration - internally through our communities of practice and externally with our partner disciplines, professions and organizations

Accountability - by fairness and transparency in all of our activities



Organizational Structure

DEAN

Faculty of Medicine

CHAIR

Otolaryngology-HNS

DIVISIONS

— Audiology

— Head & Neck Oncology and
Reconstructive Surgery

— Facial Plastic
& Reconstructive
Surgery

— Rhinology

COMMITTEES

— Executive

— Undergraduate Medical
Education

— Residency Program

— Continuing Professional
Development

— Research

— Department Appointments

— Department Promotions

— Budget Advisory

— Community Academic
Faculty

— Advancement

— Quality and Safety

HOSPITAL CHIEFS

— Hospital for Sick Children

— Michael Garron Hospital

— North York General

— Sinai Health

— Sunnybrook Health
Sciences Centre

— Trillium Health Partners

— Unity Health Toronto -
St. Joseph's Health Centre

— Unity Health Toronto -
St. Michael's Hospital

— University Health Network



Chair's Report

Ten years as chair of this department has flown by. This is my last annual report as chair and I am most thankful to all members of the department who have made this a most enjoyable experience. Following an international search and exceptional candidates, Dr. Danny Enepekides has been selected as my successor effective July 1, 2022. He is a visionary leader with remarkable compassion and empathy. I know he will do an exceptional job and take the department to new heights!

We had an exciting announcement this year with the establishment of the George and Helen Vari Chair in Otolaryngology-Head & Neck Surgery. This is a \$3M endowed chair through the University of Toronto that will remain in perpetuity and is tied to the chair of the department to foster education and research in the department. Our sincere thanks to Helen Vari and the late George Vari for their vision and philanthropy as well as Dr. Pat Gullane who was instrumental in securing this tremendous gift for our department. We underwent an external review of the last 4+ years by Dr. Maie St. John (University of California Los Angeles) and Dr. Kevin Fung (Western University) on September 30-October 1, 2021. I am indebted to all in our department who gave freely of their time and there were many laudatory comments and helpful suggestions in the final report.

As of 2021-2022, we have 18 full professors, 16 Associate Professors, 24 Assistant Professors and 66 Lecturers, 30 residents and 24 fellows in the department, making us one of the largest departments in North America. We have 9 endowed chairs and more than 850 alumni around the world.

I am continually impressed by the productivity of our faculty, residents and fellows. Since the last external review of our department in 2017 including a pandemic, our department published 646 peer-reviewed publications, we had 21,366 citations, faculty gave 1408 presentations, we delivered 25 CPD courses, had 62 visiting professors and received more than \$6.5M in philanthropic donations. We promoted 5 faculty to full professor, 8 to associate professor and 10 to assistant professor. We hired 5 new assistant professors and 17 lecturers. We received more than \$69M in research grants in 2019-2020 alone. The median h-index for full-time faculty with 20 years of research experience was 42 putting these individuals in the "great" category according to Hirsch (inventor of the h-index). *We have more Mosher Research Award winners (six) in the department than any other department in North America.* Furthermore, since 2017, we have had seven faculty serve as Presidents of national or international academic societies.

Our department was instrumental in the success of the 75th Annual Meeting of the Canadian Society of Otolaryngology-Head & Neck Surgery (CSO-HNS) held virtually from September 17-19, 2021. Dr. Vincent Lin (Scientific Program Chair) and Dr. Yvonne Chan (CPD Director) did a spectacular job in organizing the scientific content for the meeting. The theme of the meeting was Equity, Diversity & Inclusion in Otolaryngology. I completed 2+ years as President and my Guest of Honour was Dr. Karen Kost (McGill University) and *Lifetime Achievement Award* Recipient Dean Dominique Dorion (Sherbrooke University), a former resident and fellow in our program. By all accounts, the meeting was a great success. Dr. Paolo

Campisi is now Treasurer, Dr. Vincent Lin Secretary-Elect and Dr. Yvonne Chan continues as the CPD Director for the CSO-HNS. In addition, three of our residents won Poliquin Resident Research Competition prizes and two of our recent graduates received the two COHNS Fund Fellowship Grants (Drs. Neil Arnstead and Peter Dixon) for 2021-2022, and Dr. Jennifer Siu received a COHNS Fund Fellowship Grant for 2022-2023.

I am especially indebted to our alumnus and former faculty member, Dr. Kan Yan Chow and his wife Vera Chow, for their continued generosity in endowing two new research awards in our department under my name.

I was touched by the beautiful ties with our departmental crest on it that the residents had commissioned for Dr. Campisi and I – thank you! In addition, I was so happy to see so many colleagues, friends and family at the Royal Ontario Museum on June 29, 2022 for my chair end of term celebration. I really appreciated all of the warm wishes and the beautiful watch, the highlight of my academic year!

Faculty

A warm welcome to Drs. Neil Bailie (UHN), Joel Davies (SH) and Christopher Yao (UHN) as full-time faculty members, Drs. Josie Xu and Christopher Hong as clinical adjunct faculty and to Jessica Banh, Dario Coletta, Laurel Palmer, Johane Rakotoarimanana, Maria Simone and Erica Wong as status-only faculty in the department.

A huge thanks to Dr. Al Chiodo for all his efforts on behalf of our department and specialty. Dr. Chiodo has relocated to North Carolina and Dr. Bradley Hubbard has taken over as the interim Otolaryngologist-in-Chief at Michael Garron Hospital. A search for a new chief is being conducted.

Congratulations to Dr. John de Almeida who was selected for the NRG HN core committee. This reflects the great work that he has been doing nationally and internationally in leading and participating in head and neck phase II and III randomized clinical trials.

Dr. Janet Chung was selected by a search committee as the new Community Academic Faculty Liaison for our department. Thank you to Dr. Yvonne Chan for her many years of excellent service in this role.

Dr. Jonathan Irish was appointed as the Vice President – Clinical, Cancer Programs for Ontario Health and Cancer Care Ontario. This is a huge role leading cancer care and services across Ontario. We are enormously proud of Dr. Irish.

Dr. Molly Zirkle completed her term as the Director of the FitzGerald Academy in October 2021. Thank you for all your time and efforts in this role! She takes on a new role as Director of Career Advising in the Office of Learner Affairs in the Temerty Faculty of Medicine from February 2022 to March 2023.

Congratulations to Dr. Patrick Gullane on receiving an honorary degree in Science (DSc) from Western University on June 17, 2022 in addition to giving an inspired address to the graduating class.

Dr. Alain Dabdoub was successful in achieving promotion to full professor in our department as of July 1, 2022 – so well deserved!

Dr. Jerry Chapnik retired after more than 50 years in practice at Mt. Sinai Hospital/Sinai Health, Toronto! He is an amazing clinician and surgeon as well as superb teacher, colleague and friend to so many in the department. He will truly be missed but we wish him well in the next chapter in his life.

In Memorium

Not included in the 2020-2021 annual report was the passing of Dr. David Goldfarb on June 25, 2021, at the age of 61. He served as Chief of Otolaryngology at Doctors Hospital (1994 to 1998) before joining North York General Hospital in 1999 and served as Chief of Otolaryngology for 10 years. In recognition of his standing in our department, he was the recipient of the *Distinguished Alumnus Award* for exceptional commitment and dedication to the practice and teaching of otolaryngology and for professional ethical standards of the highest order. David's passions outside of medicine included a love of singing, acting and theatre production. He will be remembered for his kindness, sense of humour and passion for life and his family.

Dr. Jacob (Jack) Friedberg passed away on December 11, 2021. He was also a *Distinguished Alumnus Award* recipient and was known as an outstanding teacher, mentor and leader in our department including his term as Otolaryngologist-in-Chief as SickKids. His common sense and practical approaches to problem solving and knowledge translation were unparalleled. He helped so many pass their Royal College exams. Many will have fond memories of his stories, his passion for the outdoors and his love for his family.

Dr. Fred Gentili was a long-standing member of the Division of Neurosurgery and cross-appointed to our department who died on January 15, 2022. Dr. Gentili was an amazing surgeon, mentor, innovator, teacher, colleague and friend to so many in our department. He was a pioneer in open and endoscopic anterior skull base surgery and translated his knowledge nationally and internationally. His knowledge, skill and passion will be missed.

Education

I want to give a huge thank you to Dr. Paolo Campisi, Vice-Chair Education and Director of Postgraduate Education, who has tirelessly worked to make all our education programs so strong. He is an exceptional educator, leader and mentor who has been instrumental in the success of our department.

Some highlights in education this year include the undergraduate education task force which was convened and is ongoing to revise our online course curricula co-chaired by Drs. Allan Vescan and Paolo Campisi.

Three virtual CaRMS information sessions were led by Dr. Campisi and residents in our department culminating in the virtual CaRMS interviews held on March 11, 2022. We were very pleased to match and welcome Emily Cheng (University of Toronto), Nicole Crimi (McMaster University), Hugh Kim (Western University) and Jacob Wihlidal (Western University). A welcome barbecue was held at the Campisi residence for the 2020-2021 new residents on August 26, 2021 and the annual resident retreat took place on June 3, 2022 at Grange Park, the Toronto Beach Club and ending at Woodbine beach. A huge shout out to Dr. Jennifer Siu as Chief Resident for 2021-2022. Dr. Amr Hamour was elected by his peers to take over for the 2022-2023 academic year – thank you both.

We had a wonderful graduation ceremony for our resident and fellow graduates with family, friends and many members of our department at Hart House on June 16, 2022.

A very successful Otolaryngology Update 2022 was held on February 5, 2022 and organized by Dr. Yvonne Chan. The 30th Annual Percy Ireland Research Day and Dinner was held on May 5-6, 2022. The Guest of Honour was Dr. Robert V. Harrison and the Percy Ireland Orator was Dr. Patrick Gullane.

We had a large number of virtual visiting professors for Grand Rounds and other educational events as detailed in this annual report.

We had an interesting faculty development session on November 11, 2021, organized by Drs. Paolo Campisi and Najma Ahmed in conjunction with the Department of Surgery. The topics were varied and interesting including the effects of ergonomics on a surgeons' health, the tenacity and willpower to row across an ocean and the search earth-like planets.

Research

This research productivity in our department continues to excel. This annual report details the publication of 5 books, 23 textbook chapters, 214 peer-reviewed publications in 114 journals and a large number of national and international presentations (in person and virtual). Thank you to Dr. Alain Dabdoub, Vice-Chair Research, all members of the Research Committee and member of the department who do this wonderful work.

The department was able to support two \$25,000 research awards again this year. There were excellent submissions but the awards went to: 1) Dr. Trung Le (Sunnybrook) for his project titled "Treatment of Vestibular Schwannoma in Neurofibromatosis 2 Syndrome Using Bevacizumab and Focused Ultrasound" and 2) Ms. Melissa Hazen (SickKids) for her project titled "Developmental Effects of Concurrent Vestibular and Auditory Dysfunction in Childhood".

Awards

There are many awards detailed in this report but I would like to highlight several.

- Dr. Christopher Noel (PGY3) was the recipient of a *Joseph M. West Family Memorial Fund Award* and Dr. Justine Philteos (PGY2) was the recipient of a *William S. Fenwick Research Fellowship Award* from the Postgraduate Awards Committee in the Temerty Faculty of Medicine. In addition, Dr. Noel successfully defended his PhD thesis on April 6, 2022 in the Institute of Health Policy, Management and Evaluation.
- At the Canadian Society of Otolaryngology-Head & Neck Surgery's Poliquin Resident Research Competition, three of our residents received research prizes. Dr. Jennifer Siu for her work on "Development of a Neural Network Model to Predict Long-term Mortality in Patients Eligible for Tracheostomy in the ICU" and Drs. Arm Hamour and Jong (John) Lee for their combined work on "Development of a Murine Model for Chronic Rhinosinusitis".
- The Institute of Medical Science awarded a select number of faculty members with *Faculty Recognition Awards* at their Scientific Day event on May 17, 2022. Three of our faculty received awards: 1) Dr. Jonathan Irish (Strong Mentorship); 2) Dr. Andrew Dimitrijevic (Strong Citizenship) and 3) Dr. Trung Le (Strong Citizenship).
- Congratulations to Drs. Trung Le, John de Almeida and Antoine (Tony) Eskander who were inducted into the Triological Society at their annual meeting on April 29, 2022 in Dallas, Tx. In addition, Dr. Eskander received the *Maureen Hannley Award* for in the outstanding alternative science category and Dr. Le received the Honorable mention Award for Basic Science.

- Dr. Sharon Cushing gave the inaugural Dohlman Lecture on Friday May 15, 2020 titled “Hearing and Balance: What Cochlear Implants Have Taught Us About the Developing Vestibular System”. We were unable to present her with the Dohlman medal until June 16, 2022. The *Dohlman Award* was established in 1974 to promote interest and activity in vestibular physiology, through the presentation of a gold medal to the researcher who has made the most outstanding contribution to basic vestibular research and solutions to challenging problems.

Administration

We have an exceptional administrative team led by our Business Officer, Audrea Martin. Our Education Coordinator, Andrea Donovan manages undergraduate and postgraduate programs with great efficiency and Sonia Valente, Executive Assistant to the Chair helps to keep all of our important meetings and programs running smoothly. We welcomed Aviva Lev-Aviv as the Administrative and Events Assistant while Safia Amin is on maternity leave until April 2022.

Summary

I continue to be so proud of our faculty, alumni, residents and fellows who continue to go from strength to strength in education, research, administration and leadership. Thank you to everyone who has shown such generosity of their time and energy to help me over the last 10 years. It has been my pleasure and honour to serve this great department and I know Dr. Enepekides will be an exceptional chair.

Respectfully submitted,
Ian Witterick MD



The background is a solid dark blue color. Overlaid on this is a grid of lighter blue lines that form a perspective of a grid receding into the distance. The lines are slightly curved, giving a sense of depth and movement.

Faculty

Faculty Members

Professor and Chair

I.J. Witterick, MD, MSc, FRCSC

Professors Emeriti:

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

Professors:

P.A. Adamson, OOnt, MD, FRCSC, FACS
D.H. Brown, MB, FRCSC
P. Campisi, MD, MSc, FRCSC
J.M. Chen, MD, FRCSC
D. Chepeha, MD, MScPH, FACS, FRCSC
D. Enepekides, MD, MPH, FRCSC
V. Forte, MD, FRCSC
J.L. Freeman, MD, FRCSC, FACS
R.W. Gilbert, MD, FRCSC
D. Goldstein, MD, MSc, FRCSC
K. Gordon, PhD, CCC-A, Reg. CASLPO
P.J. Gullane, CM, OOnt, MB, FRCSC, FACS, Hon-FRACS, Hon-FRCS, Hon-FRCSC, Hon-DS
R.V. Harrison, PhD, DSc
J.C. Irish, MD, MSc, FRCSC, FACS
A. James, MB, FRCSC, FRCS
V. Lin, MD, FRCSC
B.C. Papsin, MD, MSc, FRCSC
J.A. Rutka, MD, FRCSC

Associate Professors:

J. Anderson, MD, MSc, FRCSC
Y. Chan, MD, MSc, FRCSC, HBSc
J.S. Chapnik, MD, FRCSC
A. Chiodo, MD, FRCSC
K. Conrad, MD, FRCSC, FRCS
S. Cushing, MD, MSc, FRCSC
A. Dabdoub, PhD

J. de Almeida, MD, MSc, FRCSC
A. Dimitrijevic, PhD
A.M. Gantous, MD, FRCSC
K. Higgins, MD, MSc, FRCSC
J. Lee, MD, MSc, FRCSC
E.A. Monteiro, BSc, MD, MSc, FRCSC
V. Papaioannou, MCISc
E.J. Propst, MD, MSc, FRCSC
M. Zirkle, MD, MEd, FRCSC

Assistant Professors:

S. Anand, MD, MSc, BArtsSc (Hon), FRCSC
N. Bailie, PhD, MB, BCHir, BAO, BSc, FRCSI, FRCS (ORL-HNS)
M.G. Brandt, BSc, MD, FRCSC
J. Davies, MD, MSc, FRCSC
A. Eskander, MD, ScM, FRCSC
R. Fox, MD, FRCSC
E. Gooden, MD, FRCSC
J. Halik, MD, FRCSC
T. Holler, MD, MSc, FRCSC
R.L. Josephson, MD, PhD, FRCSC
J. Kolenda, MD, FRCSC
T. Le, MD, PhD, FRCSC
A. Lee, MD, MSc, CCFP(EM), FRCSC
R.J. Lin, MD, MSc, FRCSC
R. Mounsey, MD, FRCSC, FACS
R. H.W. Ng, BSc, MD, PhD, FRCSC
M. Shah, MD, MPhil, FRCSC
J. Shahin, MD, FRCSC
P. Singh, MD, MSc, FRCSC
O. Smith, MD, FRCSC
P. Solomon, MD, FRCSC
A. Vescan, MD, MSc, FRCSC
J. Werger, MD, FRCSC
N. Wolter, MD, MSc, FRCSC

Lecturers:

J. Adamonis, MCISc
A. Alexander, MD, BSc, FRCSC
J. Asaria, MD, BSc, FRCSC
J. Atlas, MD, BSc, FRCSC
J. Banh, HBSc, MSc
S. Banglawala, MD, BSc, MPH, FRCSC
G. Belchetz, MD, BSc, FRCSC

M. Brace, MD, BSc, MSc, FRCSC
 D. Brown, MD, FRCSC
 R. Burke, MD, FRCSC
 L. Carinci, MCISc, BSc (Hon)
 R. Chaban, MD, FRCSC
 M. Chang, BSc, MD, FRCSC
 N. Chauhan, MD, FRCSC
 J. Chung, MD, BSc, FRCSC
 D. Coletta, MSc, BSc(Hon)
 D. Dalgorf, MD, BSc (Hon), FRCSC
 T. Davids, MD, FRCSC
 S. Druker, MSc(A)
 C. Falls, BA Psychology, BHSc, MCISc
 V. Fernandes, MD, FRCSC
 D. Finkelstein, MD, FRCSC
 A. Gevorgyan, MD, MSc, FRCSC
 G. Goulding, MCISc
 A. Grewal, MD, BHSc, FRCSC
 D. Hacker, MD, FRCSC
 B. Hassouneh, BSc, MD, FRCSC
 M. Hazen, MSc, Aud (C)
 R. Hekkenberg, MD, FRCSC
 C. Hong, MD, FRCSC
 B. Hubbard, MD, BSc, FRCSC
 T. Kandasamy, MD, BSc, FRCSC
 A. Katyal, MD, FRCSC
 W. Kaul, MD, FRCSC
 M. Korman, MD, BA, FRCSC, DAB Oto
 B. Kou, BSc, MD, FRCSC
 L. Kus, MD, MSc, BSc (HONS), FRCSC
 E. LeBlanc, BSc, AuD
 A. Lee, MD, FRCSC
 R. Leung, MD, BSc, FRCSC
 B.T.M. Lui, MD, BSc, MSc, FRCSC
 L. MacDonald, MSc
 B. Marcarian, MD, FRCSC
 J. Mendelsohn, MBChB, FRCSC
 L. Minz, MD, FRCSC, FACS
 S. Morong, MD, MSc, FRCSC
 J. Naiberg, MD, FRCSC
 K. Nazarali, MD, FRCSC, FACS
 A. Oh, MD, BSc, FRCSC
 A. Osborn, MD, PhD
 M. Oyewumi, HBSc, MD, FRCSC
 L. Palmer, M. Sc. Audiology
 X. Punthakee, MD, BSc, FRCSC
 J. Rakotoarimanana, BSc, MSc
 R. Rival, MD, FRCSC
 M. Roskies, MD, MSc, FRCSC
 R. Seaberg, MD, HBSc, PhD, FRCSC
 L. Segall, MD, MSc, FRCSC
 T. Shinghal, MD, DMD, FRCSC

M. Simone, BSc(Hon), MSc
 K. Smilsky, MCISc
 I. Syrett, MCISc
 V. Toran, MD, BSc, FRCSC
 A. Toth, MD, FRCSC
 S. Vojvodich, MD, FRCSC
 C. Wetmore, MSc, Audiology
 J. Witte, MA
 A. Wong, MD, BSc, FRCSC
 E. Wong, MSc, AuD
 J. Xu, MD, FRCSC
 C. Yao, MD, FRCSC
 J. Yip, MD, BSc (HONS), FRCSC

Cross-Appointed Faculty

Professors:

S. Blaser, MD, FRCSC, Medical Imaging
 G. Bradley, DDS, MSc, Faculty of Dentistry
 F-F. Liu, MD, FRCPC, Radiation Oncology
 R. Martino, MSc, MA, PhD, Speech Language Pathology
 B. O'Sullivan, MB Bch BAO, FRCPC, Radiation Oncology
 J. Ringash, MD, MSc, FRCPC, Radiation Oncology
 L.E. Rotstein, MD, FRCSC, Surgery
 A.M-F. Wong, MD, PhD, FRCSC, FAAO, Ophthalmology & Vision Sciences
 E. Yu, MD, RCPSC, ABR, Medical Imaging
 G. Zadeh, MD, PhD, FRCSC, Surgery

Associate Professors:

E.S. Bartlett, MPH, MD, Medical Imaging
 J. Lazor, RPh, BScPhm, MScPhm, EdD, FRSH, Dept of Family & Community Medicine
 B.Y. Ngan, PhD, MD, FRCPC, Laboratory Medicine & Pathobiology
 B. Perez-Ordoñez, MD, FRCPC, Laboratory Medicine & Pathobiology
 S. Symons, BASc, MPH, MD, FRCPC, Medical Imaging
 J. Waldron, MD, MSc, FRCPC, Radiation Oncology

Assistant Professors:

J. Allegro, MSc, Speech Language Pathology
 S. Huang, MRT(T), MSc, MD
 S. Laughlin, BSc, MD, FRCPC, RCPSO, ACR, Medical Imaging

Lecturers:

D. Parker, MSc, Speech Language Pathology

Administrative Staff:

Andrea Donovan, Postgraduate/Undergraduate Administrator
 Aviva Lev-Aviv, Events Coordinator (contract)
 Audrea Martin, Business Officer
 Sonia Valente, Chair's Assistant/Department Executive Assistant

Honours and Awards

ADAMSON, P

2022

Dr. Peter A. Adamson Endowment Fund for Surgical Training established by the Facial Reconstructive and Cosmetic Surgery India Trust to honour my contributions to the development of the specialty and surgical education in India. Funds provided to resident and fellow surgeons to support their attendance at academic meetings and courses.

CAMPISI, P

2021

Royal College of Physicians and Surgeons of Canada, Competence by Design Innovator recognition. In recognition of exemplary leadership in the implementation of Competence by Design in your home program.

CHAN, Y

2022

2021 University of Toronto Department of Otolaryngology – Head & Neck Surgery Distinguished Alumnus Award. For exceptional commitment to the practice and teaching of Otolaryngology – Head & Neck Surgery and whose professional and ethical standards have been of the highest order.

DAVIES, J

2022

Chapnik, Freeman and Friedberg Clinical Scientist Program Award.

DE ALMEIDA, J

2022

Induction into the Triological Society for successful completion of Triological Thesis, Triological Society, Combined Otolaryngology Spring Meetings, Dallas, TX, USA. Thesis: Comparing Open and Endoscopic Approaches for Skull Base Surgery, Triological Society.

DIMITRIJEVIC, A

2021

Institute of Medical Sciences Faculty Service Award.

ENEPEKIDES, D

2022

Recipient, Resident Advocate Award.

ESKANDER, A

2022

Triological Society Fellow Induction.

2022

Maureen Hannley Award.

2021

The Honour Award.

FREEMAN, J

2022

Honoured by Mount Sinai Hospital. Created Endowed Distinguished Chair The Jeremy Freeman Family Chair in Surgical Oncology.

GOODEN, E

2021

Excellence in Community Based Clinical Teaching Award. Temerty Faculty of Medicine, University of Toronto.

GULLANE, P

2022

Honourary Doctor of Science, D.Sc. Western University.

HUANG, S

2022

2022 Novartis Oncology Young Canadian Investigator Award. Top ranked Proffered Paper in the Annual NOYCIA Meeting, American Society of Clinical Oncology.

HAZEN, M

2022

Margaret & Howard Gamble Research Grant, Ontario Student Opportunities Trust Fund, (\$11,250).

2022

Raymond Ng PhD Graduate Award, Department of Otolaryngology – Head & Neck Surgery, Temerty Faculty of Medicine, University of Toronto (\$13,000).

2022

Audiology Leadership Scholarship, Speech-Language & Audiology Canada (SAC), Canada. (\$1,000)

2021

Certificate of Recognition for Clinical Education, The Hospital for Sick Children (Distinction).

2021

Research Award, Department of Otolaryngology – Head & Neck Surgery, Temerty Faculty of Medicine, University of Toronto (\$25,000).

2021

Staff Continuing Professional Development Fund (SCPDF) Recipient, The Hospital for Sick Children, Department of Communication Disorders, September (\$266).

2021

Certificate of Recognition, The Hospital for Sick Children, Utilization Management Committee.

2021

Staff Continuing Professional Development Fund (SCPDF) Recipient, The Hospital for Sick Children, Department of Communication Disorders, December (\$266).

IRISH, J

2022

Institute of Medical Science Faculty Recognition Award for Strong Mentorship.

LE, Trung

2022

Triological Thesis and Honourable Mention Award in Basic Science. Triological Society. Magnetic Targeting of Gadolinium Contrast to Enhance Magnetic Resonance Imaging of the Inner Ear in an Endolymphatic Hydrops Mouse Model. Principal Investigator.

MONTEIRO, E

2021

Resident Advocate Award.

2022

Alma Smitheringale Excellence in Undergraduate Teaching Award.

Leadership Activities

ADAMSON, P

2021-present	Senior Advisor. International Federation of Facial Plastic Surgery Societies.
2022-present	Senior Advisor. Nepalese Society of Facial Plastic and Reconstructive Surgery.
2019-present	Senior Advisor. Facial Reconstructive Cosmetic Surgery India Trust.
2011-present	Senior Advisor. Pan Asian Academy of Facial Plastic and Reconstructive Surgery.
1996-present	President and Founder. Face the Future Foundation.
1989-present	Senior Advisor. Canadian Academy of Facial Plastic and Reconstructive Surgery.

American Academy of Facial Plastic and Reconstructive Surgery

2007-present	Member. Ethics Committee.
2016-present	Mentor. AAFPRS Practitioner's Program.
2019-present	Member. President's Ad Hoc Committee for Rhinoplasty Strategic Planning.

American Board of Facial Plastic and Reconstructive Surgery

1988-present	Director, Officer.
1999-present	Senior Examiner. Responsibilities include new examiner training and orientation for examiners and candidates in Washington, DC.
2019-2021	Member, Maintenance of Certification Working Group to assess new annual online Maintenance of Certification Program, FaceForward.
2021-present	Global Ambassador and Officer Executive Committee.

European Board for Certification in Facial Plastic and Reconstructive Surgery

2012-present	Senior Advisor.
2012-present	Senior Examiner.

International Board for Certification in Facial Plastic and Reconstructive Surgery

2021-present	Immediate Past-President.
2021-present	Global Ambassador and Member of the Executive Committee.
2012-present	Officer. Member Executive Committee.

BANH, J

2013-present	Member. Canadian Audiology Association.
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BRACE, M

2021-present	Examiner, American Board of Facial Plastic and Reconstructive Surgery.
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BRADLEY, G

2020-present	Review Editor. Frontiers in Oral Health – Oral Cancers section.
2018-2022	Councillor for North America. International Association of Oral and Maxillofacial Pathologists.

Editorial Boards

2016-present	Oral Diseases.
2014-present	Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology.

CAMPISI, P**American Society of Pediatric Otolaryngology**

2021-present Member. Membership Committee.

International Federation of ORL Specialties

2019-2021 Co-chair. Pediatric Otolaryngology Planning Committee.

Canadian Society of Otolaryngology-Head & Neck Surgery

2021-present Treasurer.

2018-2022 Historian.

2012-2022 Chair. Pediatric Otolaryngology Study Group.

2016-2022 Chair. Program Directors Committee.

Royal College of Physicians and Surgeons of Canada

2012-present Member. Otolaryngology-Head & Neck Surgery Specialty Committee.

2012-present Member & Examiner. Otolaryngology-Head & Neck Surgery Examination Board.

2019-present Surveyor. Residency Accreditation.

Think Tank in Otolaryngology: ENT Innovations and Pearls

2020-present Co-Course Director. P. Campisi, M. Casale, P. Baptista.

University of Toronto

2020-2022 Member. Faculty Council Executive Committee.

2020-2022 Departmental Representative. Faculty Council.

2018-2021 Member. Simulation Education Advisory Committee.

2017-2022 Member. PGME Internal Review Committee.

2017-2022 Member. Vice Chairs Education Committee.

2012-2022 Member. Postgraduate Medical Education Advisory Committee.

2012-2022 Member. Foundations of Surgery Committee.

Manuscript Reviewer

2010-present Journal of Pediatric Hematology/Oncology.

2009-present The Pediatric Infectious Disease Journal.

2006-present JAMA 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

2022 Mentor. Royal College of Physicians and Surgeons of Canada Regional Advisory Committee new members.

2021-present Associate Editor. Ear, Nose & Throat Journal.

2021-present Faculty Editor for Otolaryngology Chapter, The Toronto Notes 2022 and 2023.

2019-present Member. Diversity Advisory Council, Temerty Faculty of Medicine, University of Toronto.

2019-2021 Chief. Department of Otolaryngology-Head & Neck Surgery, Trillium Health Partners.

2017-present Member. Royal College of Physicians and Surgeons of Canada Regional Advisory Committee 3.

American Academy of Otolaryngology Head and Neck Surgery

2021-present Member. Annual Meeting Program Committee.
 2019-present Leadership and Mentorship Representative. CSO Women in Otolaryngology Section.
 2018-present Member. CSO Women in Otolaryngology Section.
 2018-present Chair. CSO Continuing Professional Development Committee Chair.
 2015-present Member. Rhinology and Allergy Education Committee.

Manuscript Reviewer

2020-present The Laryngoscope.
 2019-present Canadian Medical Association Journal.
 2014-present American Journal of Rhinology & Allergy.
 2014-present International Forum of Rhinology & Allergy.
 2012-present Journal of Otolaryngology-Head & Neck Surgery.

Unity Health - St. Michael's Hospital

2022-present Evaluator. Unity Health EPR Procurement - Ambulatory.
 2021-present Member. Perioperative Quality & Safety Committee.
 2021-present Member. Surgical Safety Checklist Subcommittee.
 2021-present Otolaryngologist-in-chief. Department of Otolaryngology – Head & Neck Surgery.
 2021-present Member. Medical Advisory Committee.
 2021-present Member. Council of Medical Leaders.
 2021-present Member. Ambulatory Surgery Centre Development Committee.
 2021-present Member. Electronic Patient Record Procurement Committee.
 2021-present Member. Perioperative Cabinet Committee.
 2021-present Member. SMH Association, St. Michael's Hospital.
 2021 Member. Corporate Medical Advisory Committee.

CHEN, J

2007-present Provincial Coordinator. Hearing Implantation Program of Ontario.

CUSHING, S

2022 Program Committee Member. SENTAC Meeting. 2022. Philadelphia.
 2022-present Executive Board Member. International Society of Auricular Reconstruction.
 2021-present Member. Triological Society, Thesis: Instability of Hearing in Children with Congenital Cytomegalovirus Infection: Evidence and Neural Consequences.
 2017-present Member. Barany Society.
 2014-present Board Member. Interamerican Association of Pediatric Otorhinolaryngology.
 2003-present Member. American Academy of Otolaryngology - Head & Neck Surgery.
 2003-present Member. Canadian Society of Otolaryngology - Head & Neck Surgery.
 2003-present Member. Association for Research in Otolaryngology.
 2003-present Member. Canadian Medical Association.
 2003-present Member. Ontario Medical Association.

Associate or Section Editing

2016-present Frontiers in Otorhinolaryngology-Head and Neck Surgery.

Editorial Boards

2010-present Otology & Neurotology.

Manuscript Reviewer

2021-present BMC-Pediatrics.
 2020-present American Journal of Otolaryngology-Head and Neck Surgery.
 2020-present Behavioral Sciences.
 2020-present International Journal of Environmental Research and Public Health.
 2019-present Journal of Clinical Medicine.
 2018-present Archives of Otolaryngology and Rhinology.
 2018-present BMC Pediatrics.
 2018-present Developmental Medicine & Child Neurology.
 2018-present International Journal of Neurological Disorders.
 2018-present International Journal of Phonetics and Audiology.
 2018-present JAMA Otolaryngology-Head & Neck Surgery.
 2018-present Journal of Audiology & Otolology.
 2018-present Journal of Otolology & Rhinology.
 2018-present Journal of Vestibular Research.
 2018-present SciTechnol.
 2017-present Clinical Genetics.
 2017-present European Journal of Paediatric Neurology.
 2017-present Journal of Otorhinolaryngology, Hearing and Balance.
 2017-present Journal of the American Academy of Audiology.
 2017-present International Archives of Otorhinolaryngology.
 2016-present Neural Plasticity.
 2015-present Audiology and Neurotology.
 2015-present Croatian Review of Rehabilitation Research.
 2015-present European Archives of Oto-Rhino-Laryngology.
 2015-present International Journal of Audiology.
 2015-present Otolaryngology-Head and Neck Surgery.
 2014-present Pediatrics.
 2013-present Cochlear Implants International.
 2013-present Ear and Hearing.
 2013-present The Laryngoscope.
 2012-present Annals of Otolology, Rhinology, & Laryngology.
 2012-present PLoS ONE.
 2011-present International Journal of Pediatric Otorhinolaryngology.

DABDOUB, A

2022-present Associate Editor, Journal of the Association for Research in Otolaryngology.
 2021-present External Advisory Committee Member for the Translational Hearing Center, an NIGMS Institutional Development Award Center of Biomedical Research Excellence, Creighton University, USA.
 2021-present User Advisory Board Member for Gene Expression Analysis Resource, University of Maryland, School of Medicine, USA.
 2019-present Vice-Chair, Research, Department of Otolaryngology-Head & Neck Surgery, Temerty Faculty of Medicine, University of Toronto.
 2011-present Member. Hearing Restoration Project Consortium, Hearing Health Foundation.

DAVIES, J

2021-present Member. Elective Booking Policy Group. Mount Sinai Hospital.

DE ALMEIDA, J

2022-present Member and Skull Base Section Representative, Curriculum Development and Maintenance Service, American Head and Neck Society.

2022-present Chair. Survey Administration Service, American Head and Neck Society.

2022-present Member. Head and Neck Cancer Core Committee, NRG Oncology

2022-present Education Lead. Skull Base Section – American Head and Neck Society (AHNS).

2022-2025 Director-at-Large. for North American Skull Base Society.

2021-present Member. Steering Committee Head and Neck Cancer International Group – AI Initiative (Artificial Intelligence in Head and Neck Cancer).

2021-present Committee Member. Clinical Practice Guidelines Committee, American Head and Neck Society.

2020-present Member. Value and Quality Committee, American Head and Neck Society.

2020-present Member. American Head and Neck Society Skull Base Section Committee.

2020-present Member. Surgical Sub-committee. Head and Neck Cancer International Group.

2020-2022 International Lead. American Head and Neck Society Skull Base Section.

Manuscript Reviewer

2022-present Journal of Clinical Oncology.

2022-present International Journal of Radiation Oncology, Biology, and Physics.

2018-present Journal of Surgical Oncology.

2018-present Journal of the National Cancer Institute.

2016-present International Journal of Cancer.

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.

ENEPEKIDES, D

2018-2022 Chair. Quality and Safety Committee, Canadian Society of Otolaryngology-Head & Neck Surgery.

2021-present Chair. American Head and Neck Society Salivary Gland Section.

2018-2020 Skin Cancer Care Pathway Development Team Member.

2018-present Chief. Department of Otolaryngology-Head & Neck Surgery, Sunnybrook Health Sciences Centre.

2014-present Regional Lead (Toronto Central North), Surgical Oncology. Cancer Care Ontario/Ontario Health.

2014-present Chief. Division of Surgical Oncology, Odette Cancer Centre, Sunnybrook Health Sciences Centre.

2011-present Member. Advanced Training Council Committee, American Head and Neck Society.

Manuscript Reviewer

2013-present JAMA Otolaryngology-Head & Neck Surgery.

2002-present Head & Neck.

2002-present Otolaryngology-Head and Neck Surgery.

2002-present The Laryngoscope.

ESKANDER, A

2022-2025	Secretary. The Curriculum Development & Maintenance Service, American Head and Neck Society.
2022-2025	Member. Ontario Head and Neck Cancers Advisory Committee, Ontario Health, Cancer Care Ontario.
2022-2023	Member. 2023 Program Committee, American Head and Neck Society.
2022-present	Board of Directors. Head and Neck Cancer Alliance.
2022-present	Member. Thyroid Surgery Quality Based Procedures Committee, Ontario Health, Cancer Care Ontario.
2022-present	Member. Odette Cancer Centre Program Education Council, Sunnybrook Odette Cancer Centre.
2022-present	Disease Site Lead. Head and Neck Site Group, Sunnybrook Odette Cancer Centre.
2022-present	Member. Research & Innovation Committee, Michael Garron Hospital.
2021-present	AHNS Lead. US National HPV Vaccination Roundtable as part of the American Cancer Society, American Cancer Society.
2021-present	Member. Salivary Section Research Committee, American Head and Neck Society.
2021-present	Clinical Expert and Reviewer. Health Technology Assessment, Ontario Health.
2021-2024	Vice Chair. Awards and Publication Service, American Head and Neck Society.
2020-present	Lead and Chair. Collaborative Research Initiative. Canadian Society of Otolaryngology-Head & Neck Surgery.
2020-present	Member, Head and Neck Cancer Surgery Quality Based Procedures Committee, Ontario Health, Cancer Care Ontario.
2019-2023	Member. Microvascular Committee, American Academy of Otolaryngology – Head & Neck Surgery.
2018-2023	Member. Head & Neck Surgery Education Committee, American Academy of Otolaryngology – Head & Neck Surgery.
2018-present	Member. Odette Cancer Centre Palliative Care Advisory Committee.
2018-present	Member. Thyroid Oncology Collaborative Working Group: Education, University of Toronto.
2018-present	Member. Thyroid Oncology Collaborative Working Group: Clinical Research/Trials, University of Toronto.
2017-present	Member. Laser Safety Committee, Toronto East Health Network - Michael Garron Hospital.
2017-present	Chair. Endocrine Oncology Tumour Board, Michael Garron Hospital.
2017-present	Member. Endocrine Section Research Committee, American Head and Neck Society.
2017-present	Member. The Curriculum Development & Maintenance Service, American Head and Neck Society.

Editorial Boards

2022-present	Associate Editor. JAMA Otolaryngology – Head & Neck Surgery.
2019-2022	Academic Editor. PLoS One.
2018-present	Associate Editor. Oral Oncology.

Grant Reviewer

2022	Reviewer, MSI Grant Review.
2018-present	American Academy of Otolaryngology, Head and Neck Sub-Committee Centralized Otolaryngology Research Efforts Grant Committee Reviewer.
2018-present	CMAJ.
2018-present	Current Oncology.
2017-present	Head & Neck-Endocrine Section.
2017-present	PLoS One.

2016-present	British Journal of Cancer.
2016-present	Journal of Otolaryngology-Head & Neck Surgery (Head and Neck Oncology).
2016-present	Oral Oncology.

FALLS, C

2021-present	Director. Canadian Academy of Audiology Board of Directors.
2021-present	Executive Member. National Vestibular Special Interest Group.

GANTOUS, A

2019-present	Head. Division of Facial Plastic and Reconstructive Surgery. Department of Otolaryngology-Head & Neck Surgery. Temerty Faculty of Medicine, University of Toronto.
2019-present	Chief. Division of Otolaryngology-Head & Neck Surgery, Unity Health Toronto - St. Joseph's Health Centre.

GEVORGYAN, A

2022-present	Member. Representing Department of Surgery, Lakeridge Health Corporation. Surgical eReferral Steering Committee, Central East Hospital Cluster.
2020-present	Specialty Champion. Power User and Super User, Epic HIS regional implementation, Central East Hospital Cluster / Lakeridge Health site.
2021-present	Delegate. Section on Otolaryngology – Head and Neck Surgery, Priority and Leadership Group, Ontario Medical Association.
2019-present	Delegate. District 6 Riding Durham County, Ontario Medical Association.
2019-present	Secretary-Treasurer and Vice Chair. Section on Otolaryngology-Head & Neck Surgery, Ontario Medical Association.
2018-present	Member. Editorial Board. Rhinology Online.
2020-present	Reviewer. Rhinology Online.
2017-present	Reviewer. Journal of Otolaryngology-Head & Neck Surgery.
2015-present	Reviewer. Allergy.
2015-present	Member. OR Utilization Committee. Lakeridge Health.
2012-present	Reviewer. Rhinology.

GILBERT, R

2012-present	Chief. Department of Otolaryngology-Head & Neck Surgery, University Health Network.
2009-present	Member. Board of Trustees, University Health Network.
2003-present	Member. Planning Committee, Annual Wharton/Elia Day, with the Sullivan Lecturer, Department of Otolaryngology-Head & Neck Surgery, Princess Margaret Hospital.
2001-present	Member. Head and Neck Site Group, National Cancer Institute of Canada.
2001-present	Member. Management Council, Department of Surgical Oncology, Princess Margaret Hospital.
1991-present	Member. Practice Guidelines Initiative, Provincial Head and Neck Cancer Disease Site Group, Cancer Care Ontario.

GOODEN, E

2022	Member. Medical Staff Association Executive Search Committee, North York General Hospital.
2021-present	Chair. Governance and Nominations Committee, NYGH Foundation Board.
2020-2022	Chair, Anti-Black Racism Steering Committee. North York General Hospital.

2018-2022	Chair, Development Committee, North York General Hospital Foundation Board.
2018-present	Director. Face the Future Foundation.
2011-present	Director. North York General Hospital Foundation Board.
2009-present	Member. Surgical Program Governance Committee. North York General Hospital
2009-present	Chief. Department of Otolaryngology-Head & Neck Surgery, North York General Hospital.

GORDON, K

2022-present	Associate Editor. Trends in Hearing.
2022	Advisory Board Member. House Children's Hearing Center, CA USA.
2022	Member. Nominations Committee, Society for Ear, Nose and Throat Advances in Children.
2022	Member. Research Committee. Society for Ear, Nose and Throat Advances in Children.
2016-present	Cochlear Americas Chair in Auditory Development. Hospital for Sick Children.

GULLANE, P**North American Skull Base Society**

1989-present	Founding Member.
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Ontario Cancer Institute

2000-present	Senior Scientist. Cancer Informatics Division (Sub Committee of Research Council).
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Member, Editorial Board

2020-present	International Journal of Head and Neck Science.
2005-present	Journal Auris Nasus Larynx, International Journal of ORL & HNS (Elsevier).
2003-present	Online Journal Head and Neck Surgery-Oncology.
2000-present	The Laryngoscope.
2000-present	Head & Neck.
1993-present	American Journal of Otolaryngology.

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 Chirurgie Cervico-faciale.
1981-present	Journal of Otolaryngology-Head & Neck Surgery.

Editorial Review Board

1991-present	Les Annales d'Otolaryngologie et de Chirurgie Cervico-Faciale.
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HAZEN, M

2020-present	Career Host. Career Exploration & Education, University of Toronto.
2019-present	Audiologist. Cleft Lip & Palate Program. SickKids Hospital.
2019-present	Coach/Monitor. College of Audiologists and Speech-Language Pathologists of Ontario.
2019-present	Member. Audiology. Circle of Cleft Professional.
2019-present	Member. Audiology Working Group. City of Toronto Infant Hearing Program.

HIGGINS, K

2022	Expert Reviewer. AHNS 2022 11th International Conference Program Committee, American Head and Neck Society.
2022	Head and Neck Working Group Committee Member; International Federation of Otolaryngology Societies.
2021-present	Fellowship Lead and Executive Committee; Canadian Association of Head and Neck Surgeons.
2021-2023	Member. Cancer Care Ontario, Ontario Health Skin Cancers Advisory Committee.
2020-2022	Member. Plastic and Reconstructive Surgery Committee, American Academy of Otolaryngology Head and Neck Surgery.
2020-present	Member. Cancer Care Ontario, Head and Neck Pandemic Response Group.
2019-present	International Liaison. American Head and Neck Society, Endocrine Section.
2019-present	Ontario Regional Representative. Head and Neck Council, Canadian Society of Otolaryngology-Head & Neck Surgery.
2019-present	Executive Member. Fellowship Steering Committee, Advanced Triologic Training Council Fellowship Program, Division of Head and Neck Surgery, Department of Otolaryngology-Head and Neck Surgery.
2018-present	Member. Cancer Surgery QBP Working Group (HNK).
2018-present	Member. Esophageal Cancer Working Group, Cancer Care Ontario, Canada.
2018-present	Surgical Lead. Craniofacial Prosthetic Unit, Extra-Oral Devices Implantation Program, Odette Cancer Centre.
2017-present	Member. Sunnybrook's Sustainability Program Office, Sunnybrook Health Sciences Centre.
2017-present	Member. Dean's Faculty Council, Temerty Faculty of Medicine, University of Toronto, MD Program.
2016-present	Member. Council of Academic Hospital of Ontario Physician Quality Improvement Initiative, Department of Otolaryngology-Head & Neck Surgery, Temerty Faculty of Medicine.
2016-present	Member. Oropharyngeal Cancer Pathway Map Working Group, Ontario, Cancer Care Ontario.
2016-present	Type 1 Investigator. Otolaryngology, Canadian Cancer Trials Group, Queen's University, Cancer Research Institute.
2016-present	Member. CPOE Advisory Committee, Sunnybrook Health Sciences Centre.
2015-present	Co-chair. Head and Neck ERAS program, Sunnybrook Health Sciences Centre.
2015-present	Member. Minimally Invasive Surgery Committee, Sunnybrook Health Sciences Centre.
2014-present	Site Group Leader. Head and Neck Site Group, Odette Cancer Centre.
2014-present	Member. Head and Neck Disease Site Group, Cancer Care Ontario.
2012-present	Member. Editorial Board. International Journal of Otolaryngology and Head & Neck Surgery.
2012-present	Member. Undergraduate Committee, Department of Otolaryngology/Head and Neck Surgery, Sunnybrook Hospital.
2011-present	Member. Endocrine Site Group Leader, Odette Cancer Centre, Sunnybrook Health Sciences Centre.
2010-present	Member. Program in Evidence-Based Care, Cancer Care Ontario.
2008-present	Member. Division of Facial Plastic and Reconstructive Surgery, Department of Otolaryngology-Head & Neck Surgery.
2006-present	Member. Melanoma Site Group, Odette Cancer Centre, Sunnybrook Health Sciences Centre.
2003-present	Member. Fellowship Selection Committee. Division of Head and Neck Surgery, Department of Otolaryngology-Head & Neck Surgery.

Manuscript Reviewer

2022-present	Journal of Patient Experience.
2019-present	Journal of Reconstructive Microsurgery.

2014-present	JAMA Otolaryngology-Head & Neck Surgery.
2012-present	Craniofacial Trauma & Reconstruction.
2012-present	Thyroid.
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.

HUBBARD, B

2021-present	Member. Credentials Committee, Michael Garron Hospital.
2021-present	Member. Medical Advisory Committee, Michael Garron Hospital.

IRISH, J

2020-2022	Member. Head and Neck Surgery & Oncology Committee, American Academy of Otolaryngology-Head and Neck Surgery.
2021-present	Member, Advanced Training Council, American Head and Neck Society.
2018-2022	Member. Nominations Committee. American Head and Neck Society.
2017-present	Member. Executive Committee. Asia-Pacific Society of Thyroid Surgery.
2017-present	Head. Division of Head and Neck Oncology and Reconstructive Surgery, Department of Otolaryngology-Head & Neck Surgery, University of Toronto.
2015-2022	Member. Council. American Head and Neck Society.
2011-present	Director of Clinical Faculty. Core Lead - Guided Therapeutics, TECHNA, Institute, University Health Network.

American Academy of Otolaryngology-Head and Neck Surgery

2020-2022	Member. Head and Neck Surgery and Oncology Committee.
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Canadian Cancer Society

2021-present	Member, Board of Directors (National Board).
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Cancer Care Ontario-Ontario Health

2021-present	Vice President. Clinical, Cancer Programs, Ontario Health-Cancer Care Ontario.
2020-2021	Interim Provincial Clinical Head. Cancer Care Program and Quality Initiatives.
2020-present	Co-Chair. Clinical Council.
2020-present	Member. Provincial Leadership Council.
2020-2022	Member. Expert Panel, Clinical Guidance for Person-Centred Virtual Cancer Care.
2006-present	Chair. Surgery-Diagnostic Imaging Access to Care Advisory Council.

Ministry of Health and Long-Term Care

2009-present	Chair. Surgery and Diagnostic Imaging Council, Access to Care.
2005-present	Chair. Clinical Expert Panel-Cancer/Clinical Lead, Cancer Surgery.

Ontario Health

2020-present	Member. Clinical Institutes and Quality Programs Executive.
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2021-present	Member. Provincial Covid-19 Recovery Table Steering Committee.
2021-present	Member. Provincial Surgery and Diagnostic Imaging Recovery Advisory Panel.

Ontario Institute of Cancer Research

2020-present	Member. Board of Directors.
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Associate Editor

2010-present	Head & Neck.
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Manuscript Reviewer

2015-present	Journal of Clinical Oncology.
2008-present	Cancer.
2003-present	The Laryngoscope.
2002-present	Head & Neck.

JAMES, A

2019-present	Board Member (Scientific research advisor). International Working Group Endoscopic Ear Surgery.
2018-present	Secretary. International Otology Outcome Group.

Member, Editorial Board

2016-present	The Journal of International Advanced Otology.
2016-present	Otology & Neurotology.
2008-present	The Cochrane Library (Ear, Nose & Throat Disorders Group).

LE, T

2017-present	Reviewer. Journal of Otolaryngology Head & Neck Surgery.
2017-present	Reviewer. CSO Otology papers.
2019	Committee Member. Cochlear Implant RFP. Sunnybrook Health Sciences Centre.

LE BLANC, E

2021-present	Section Co-editor. ENT & Audiology News, Tech Review.
2021-present	Member. Finance & Risk Committee, DeafBlind Ontario Services.
2019-present	Chair of Client Services. DeafBlind Ontario Services.
2017-present	Board Member. Deafblind Ontario Services.
2014-present	Member. Client Services Committee, DeafBlind Ontario Services.

LEE, J

2014-present	Faculty Member. Editorial Board. F1000 Prime: Section on Rhinology and Paranasal Sinus Disease.
2014-present	Member. Advisory Board. F1000 Research.
2011-present	Member. Editorial Board. American Journal of Rhinology and Allergy.

Manuscript Reviewer

2019-present	JAMA Otolaryngology-Head & Neck Surgery.
2019-present	Investigative Otolaryngology.
2011-present	The Laryngoscope.

2010-present	International Forum of Allergy & Rhinology.
2009-present	American Journal of Rhinology & Allergy.
2009-present	Journal of Otolaryngology-Head & Neck Surgery.

LIN, V

2019-present	ATC Clinical Lead. Otolaryngology Surgery, Cancer Care Ontario.
2019-present	Expert Assessor, WSIB, Otology/Neurotology Opinions for Cases Escalated to Tribunal Level. Worker's Safety Insurance Board Tribunal
2018-present	Chair. Otolaryngology Section, Ontario Medical Association.
2017-present	Examiner. Otology/Neurotology section, Royal College of Physicians and Surgeons of Canada.
2017-present	Otology/Neurotology Expert Advisor. Health Technology Assessment. Health Quality Ontario.
2015-present	National Lead. Canadian Society of Otolaryngology-Head & Neck Surgery, Choosing Wisely Canada.
2015-present	Section Chair. Development of Otology-Neurotology Choosing Wisely Canada Guidelines.
2011-present	Clinical and Research Advisor. Audiology, ENT and Speech Working Group, Department of Otolaryngology-Head & Neck Surgery, Temerty Faculty of Medicine, Patient and Public Education. Ontario Health Study.

Canadian Society of Otolaryngology-Head & Neck Surgery

2022-present	Secretary. Executive Committee.
2018-2022	Scientific Program Chair. Executive Committee.
2018-present	Founding Member, Canadian Collaborative Research Initiative Core Group.
2016-present	Council Member. Vestibular Working Group.
2009-present	Council Member. Otology Working Group.

University of Toronto

2017-present	Member. AFP Innovation Grant Review Committee. Sunnybrook Health Sciences Centre, Temerty Faculty of Medicine, Department of Otolaryngology-Head & Neck Surgery.
2013-present	Postgraduate Director. Sunnybrook Health Sciences Centre, Department of Otolaryngology-Head & Neck Surgery, Temerty Faculty of Medicine, Postgraduate MD.
2011-present	Research Advisor. Postgraduate Committee, Research Coordinator, Department of Otolaryngology-Head & Neck Surgery, Temerty Faculty of Medicine, Postgraduate MD. Resident Research Supervisor/Coordinator.
2008-present	Contributor. Otolaryngology-Head & Neck Surgery Annual Resident In-Service Examination, Department of Otolaryngology-Head & Neck Surgery, Temerty Faculty of Medicine, Postgraduate MD.

External Grant Reviewer

2010-present	Medical Research Council.
2008-present	Canadian Institute of Health Sciences.

Manuscript Reviewer

2017-present	Health Reports.
2016-present	Frontiers in Neuroscience.
2014-present	Journal of Medical and Biomedical Engineering.
2012-present	Hearing Research.
2012-present	Otolaryngology-Head and Neck Surgery.

2010-present	Otology & Neurotology.
2009-present	The Laryngoscope.
2009-present	American Journal of Case Reports.
2008-present	Journal of Otolaryngology-Head & Neck Surgery.

LIN, RJ

2020-present	Associate Editor. Journal of Otolaryngology-Head & Neck Surgery.
2020-present	Member. Judging Panel. Poliquin Resident Research Competition. Canadian Society of Otolaryngology-Head & Neck Surgery.

MARTINO, R

2022-present	Dysphagia Expert Member. Delphi Study, Clinical Decision-Making in the Disease Trajectory of Oropharyngeal Dysphagia.
2022-present	Member. Planning Committee, World Dysphagia Symposium.
2022-present	Invited Faculty. World Dysphagia Symposium.
2022-present	External Grant Reviewer. Project Grants/KTR, Canadian Institutes of Health Research.
2022	Tenure/Promotion Reviewer. Department of Speech and Language Studies, Trinity College, University of Dublin, Dublin, Ireland.
2021-present	External Advisor. Gleiberman Head and Neck Cancer Center Advisory Council.
2021-present	Scientific Faculty. World Dysphagia Summit, Global Oncology Leadership Development Program (GOLD).
2021-2022	Scientific Mentor. Global Stroke Network.
2020-present	Member. International Inter-Professional Committee, Dysphagia Research Society.
2020-present	Associate Member. American Head and Neck Society.
2018-present	Member. College, Canadian Institutes of Health Research.
2016-2021	Scientific Faculty. American Head and Neck Society.
2013-present	Associate Editor. Dysphagia Journal.
2012-present	Associate Member. Canadian Centre for Applied Research in Cancer Control.
2007-present	Member. Collaborative Program in Neuroscience, University of Toronto.
2007-present	Member. Canadian Cancer Trials Group (previously National Cancer Institute of Canada) – Head and Neck Site.
2004-present	Member. Dysphagia Research Society.

NAZARALI, K

2012-present	Member. Pharmaceuticals and Therapeutics Committee. Trillium Health Partners.
2012-present	Director. Continuing Education. West End Otolaryngology-Head and Neck Surgery Group.

PAPAIOANNOU, V

2021-present	Treasurer Elect. Society for Ear Nose and Throat Advances in Children.
2022	Invited Reviewer. International Journal of Pediatric Otorhinolaryngology.
2022-present	Member. Rehab Care Alliance Toronto Central Workforce Task Group.
2017-present	Lead. Division of Audiology, Department of Otolaryngology-HNS, Temerty Faculty of Medicine.

PAPSIN, B

2010-present	Member. How I do it Committee. The Triologic Society.
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American Society of Pediatric Otolaryngology

2019-present	Past-President.
2019-present	Chair. Nominating Committee.
2019-present	Member. Finance Committee.

Politzer Society

2018-present	Member. Board of Directors.
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Editorial Board, Reviewer

2010-present	Journal of International Advanced Otology.
2010-present	Journal of Otology and Neurotology.
2006-present	Archives of Otolaryngology-Head and Neck Surgery.
2004-present	BMC Ear, Nose and Throat Disorders.
2004-present	International Journal of Pediatric Otorhinolaryngology.
2003-present	The Laryngoscope.
2003-present	American Academy of Otolaryngology-Head and Neck Surgery.

Manuscript Reviewer

1998-present	Journal of Otolaryngology-Head & Neck Surgery.
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PROBST, E

2020-2024	Member. SIMEC Simulation Education Committee. American Academy of Otolaryngology-Head and Neck Surgery.
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Hospital for Sick Children

2019-present	Member. Quality & Safety: Perioperative Services Strategic Planning Working Group.
2017-present	Member. Hospital Wide Morbidity and Mortality Committee.
2016-present	Supervisor. Safe Tracheotomy Care Parent Information Booklet.
2015-present	Medical Advisor. Critical Airway Response Team.
2014-present	Member. Pierre Robin Sequence Working Group.
2014-present	Supervisor. Decreasing Tracheotomy Stay Initiative.
2013-present	Member. Multidisciplinary Tracheoesophageal Fistula Clinic.
2012-present	Director. Flexible Endoscopic Evaluation of Swallowing Clinic.
2011-present	Co-director. Disorders Relating to the Airway and Mouth in Sleep Clinic.
2010-present	Member. Stem Cell Working Group, Multilevel Education.

American Society of Pediatric Otolaryngology

2020-present	Member. Ad Hoc COVID-19 Committee.
2017-present	Member. Fellowship Committee, Postgraduate MD.

The Aerodigestive Society

2018-2021	Member. Strategic Committee.
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Childhood Arthritis and Rheumatology Research

2016-present	Member. Periodic Fever Aphthous Stomatitis Pharyngitis, Cervical Adenitis Clinical.
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Society for Ear, Nose and Throat Advancement in Children

2019-2022 Member. Executive Committee.

Manuscript Reviewer

2022-present World Journal of Pediatric Surgery.
 2017-present Sleep and Breathing.
 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.

VESCAN, A

2019-present Member. Board of Directors. North American Skull Base Surgery.

WITTERICK, I**American Head & Neck Society**

2021-present Chair. Skull Base Surgery Section.

Canadian Society of Otolaryngology-Head & Neck Surgery

2021-2022 Immediate Past President.
 2019-2021 President.
 2016-present Member. Canadian Society of Otolaryngology-Head & Neck Surgery Council.
 2012-2022 Member. Canadian Otolaryngology Academic Chairs Committee.
 2002-present Member. Head & Neck Oncology Group.
 2002-present Member. Rhinology Group.

Global Online Fellowship in Head & Neck Surgery and Oncology

2018-present Member. Board of Directors.
 2021 Virtual Oral Examiner.

North American Skull Base Society

2019-present Member. Board of Advisors.

Royal College of Physicians and Surgeons of Canada

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

Sinai Health

2012-present Chief. Department of Otolaryngology-Head & Neck Surgery.
 2012-present Member. Medical Advisory Council.

Temerty Faculty of Medicine, University of Toronto

2022 Member. Search Committee, Wharton Chair in Head & Neck Surgery.

2020-2022	Member. Advisory Group to the Director of the Institute of Medical Science.
2016-2022	University Clinical Department Chair representative. Toronto Academic Health Sciences Network Medical Affairs Committee.
2012-2022	Member. Clinical Chairs Committee.
2012-2022	Member. All Chairs Committee.
2008-2022	Member. Steering Committee, Surgical Skills Centre.

World Congress on Thyroid Cancer

2017-present	Member. Steering Committee, World Congress on Thyroid Cancer.
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Associate Editor

2010-present	American Journal of Rhinology & Allergy.
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Member Editorial Board

2015-present	International Forum of Allergy & Rhinology.
2010-present	American Journal of Rhinology & Allergy.
2010-present	Journal of Neurological Surgery, Part B: Skull Base.
2009-present	Ear, Nose & Throat Journal.

WOLTER, N

2022-present	Lead. Ontario Button Battery Task Research Collaborative, Ontario Canada
2021-present	Committee Member. The Society for Ear Nose and Throat Advancement in Children Outreach/Research Committee.
2021-present	Co-Lead. Hospital for Sick Children – Button Battery Task Force.
2020-2021	Committee Member. Harassment, Discrimination, Intimidation Group. Department of Otolaryngology-Head & Neck Surgery Strategic Planning.
2019-present	Program Committee Member. Difficult Airway Committee. Perioperative Services Advisory Committee. Hospital for Sick Children.
2019-present	Program Committee Member. POCU Quality & Patient Safety Committee. Perioperative Services. Hospital for Sick Children.
2019-present	Program Committee Member. Surgical Site Infection Action Committee Perioperative Services. Hospital for Sick Children.
2008-present	MD Admissions File Reviewer. Undergraduate Medical Education. Temerty Faculty of Medicine, University of Toronto.

Peer Reviewer

2017-present	Journal of Otolaryngology-Head & Neck Surgery.
2017-present	The Laryngoscope.
2017-present	PLoS One.
2016-present	International Journal of Pediatric Otorhinolaryngology.

XU, J

2021-2022	Member, Electronic Media Committee, International Surgical Sleep Society.
2021-2022	Member, Media and Public Relations Committee, American Academy of Otolaryngology-Head and Neck Surgery.

Research Grants and Contracts

BRADLEY, G

- 2017-2022 Principal Investigator. Oral Squamous Cell Carcinoma Associated with Precursor Lesions An Analysis of Ontario Cancer Data. This project is a collaboration among U of Toronto (lead institution), Cancer Care Ontario, Western University, Sunnybrook Health Sciences Centre, Mt. Sinai Hospital. Internal funding from Faculty of Dentistry.
- 2019-2022 Principal Investigator. Review of intra-oral salivary gland tumours in the Toronto Oral Pathology Service database: Concordance of Biopsy Diagnosis with Surgical Pathology Diagnosis. Co-investigators: Drs. M. Magalhaes, B. Perez Ordonez, C. MacMillan, I. Kak. This is the basis of a MSc research project for a resident in Oral Pathology and Oral Medicine. Internal funding from Faculty of Dentistry.

CAMPISI, P

- 2021 Co-Investigator. Advanced Fetal Diagnosis and Therapy Program. Canada Foundation for Innovation. J. Drake (Co-Lead), T. Van Mieghem (Co-Lead), M. Seed (clinical), P. Campisi (clinical), G. Ryan (clinical), C. Macgowan (imaging), D. Sussman (imaging), L. Kahrs (imaging), A. Waspe (therapy), T. Looi (therapy). Federal component \$5.7M.
- 2021 Co-Investigator. Creation of an Evidence Map for the Perioperative Management of Tonsillectomy in Children by a Systematic Review of Current Clinical Practice Guidelines. Department of Anesthesia and Pain Medicine Outcomes Research Award. K. Aoyama, M.A. Petre, P. Campisi, L. Ameye. \$10,000 CAD; and Hospital for Sick Children Perioperative Services Summer Studentship Award. \$3,000 CAD.

CHAN, Y

- 2022 Co-investigator. Domestic Responsibilities in Canadian Otolaryngologists: Survey. AMOSO Opportunities Fund, Western University.
- 2022 Co-investigator. Domestic Responsibilities in Canadian Otolaryngologists: Survey. Otolaryngology – Catalyst Grant, Department of Otolaryngology – Head & Neck Surgery, Western University.

CHEN, J

- 2022 Clinical research projects will include a user experience/non-inferiority testing , prototype testing- 3D immersive virtual goggles, diagnostic and ablative ultrasound probe, cranial nerve tractography. Toward funding a new robotic exoscope surgical viewing platform (Synaptive Modus V) Sunnybrook SD1 Personalized Precision Medicine Grant. \$850,000 CAD.

CUSHING, S

- 2022-2027 Collaborator. Operating Grant. A subcortical circuit for coordinating express reaches. CIHR. PI: Corneil B. \$857,435 CAD.
- 2022 Co-Investigator. Research funding. Developmental Effects of Concurrent Vestibular and Auditory Dysfunction in Childhood. Department of Otolaryngology-Head & Neck Surgery, University of Toronto. Co-PI(s): Hazen M, Cushing SL, Gordon KA, \$25,000 CAD.

2021 Collaborator. Congenital CMV and Hearing in Ontario: Optimizing Screening to Improve Child Health Outcomes (CAN HEAR ONTARIO). Principal Investigators: Brophy JC, Bitnun SA, Chakraborty PK, Dunn J, Gantt SM, Kernohan KD. Collaborator(s): Antoniou T, Bariciak E, Barton M, Cushing S, Goldfarb D, Hawken S, Latchman A, Leifso K, Maccormick J, Pernica J, Pigeon M, Thampi N, Tétrault R. 5 years. \$1,243,000.00 CAD.

DABDOUB, A

2022-27 Principal Investigator. Multiomic Approaches to Identify Regenerative Pathways for the Treatment of Inner Ear Disorders. Canadian Institutes of Health Research – CIHR. \$880,000 CAD.

2021-23 Principal Investigator. Sensory Hair Cell and Supporting Cell Homeostatic States. Hearing Health Foundation. \$410,000 USD.

2020-25 Principal Investigator. Engineering Approaches for the Point-of-care Diagnosis of Inner Ear Disorders Based on the Rapid Detection of Blood Biomarkers. Natural Sciences and Engineering Research Council - NSERC. \$165,000 USD.

2020-22 Co- Principal Investigator. Using Human Inner Ear Organs to Develop New Regenerative Therapies for Hearing and Balance Disorders. University of Melbourne-University of Toronto Joint Research Initiative. \$30,000.

DE ALMEIDA, J

2022-present Co-Principal Investigator. SELECT trial: SPECT Guided Treatment of the Contralateral Neck in Lateralized Oropharynx Cancer. Flemish Granting Organization. 169,400 Euro.

2021-2024 Co-Investigator. Molecular Residual Disease Interception in Locoregional Advanced High Risk HPV-positive and HPV-negative HNSCC (MERIDIAN). Clinical Translation Pathway CATA Grant, Ontario Institute for Cancer Research (OICR). PI(s): Bratman S, Siu L. Co-I(s): de Almeida J, Haibe-Kains B, Hansen A, Hope A, Perez-Ordóñez B, Sanz Garcia E, Spreafico A, Waldron J, Xu W. \$1,287,792 CAD.

2021-2024 Co-Investigator. Validation of Ultrasensitive HPV ctDNA Analysis Platforms for Detection of Molecular Residual Disease in HPV-positive Cancers. Clinical Translation Pathway Pre-CATA Grant, Ontario Institute for Cancer Research (OICR). PI: Bratman S. Co-I(s): Han K, Kim J, de Almeida J, Lheureux S, Keshavarzi S, Hosni A, Spreafico A, Waldron J, Xu W. \$749,358 CAD.

2021-present Co-Investigator. OICR Clinical Translation Pathway Funding Opportunity – Pre-CATA. Total funding is \$250,000 for three years \$750,000 CAD.

2021-present Co-Investigator. Circulating HPV DNA for Early Detection of Recurrence in HPV-Positive Cancers. Agnico Eagle Intercept Cancer Grand Challenge. Collaborator(s): Scott Bratman, John de Almeida, Ali Hosni, Anna Spreafico, John Kim, John Waldron, Stephanie Lheureux, Wei Xu and Sareh Keshavarzi.

2021-present Principal Investigator. SELECT Trial – SPECT-CT Guided Treatment of the Contralateral Neck in Lateralized Oropharynx Cancer. National Cancer Institute/National Clinical Trials Network/Cancer

Therapeutics Evaluation Program. Co-Investigators: Ali Hosni, Wei Tu, Wendy Parulekar. Clinical Trial Grant. \$2,958,000 CAD.

2021-2028 Principal Investigator. SPECT-CT Guided Elective Contralateral Neck Treatment in Lateralized Oropharyngeal Cancer (SELECT): A phase III randomized controlled trial. Canadian Institutes of Health Research Project Grant. Co-investigators: Ali Hosni, Wendy Parulekar, Jolie Ringash, Douglas Chepeha, John Waldron, Murray Krahn, Bingshu Chen. Canadian Institutes for Health Research Project Grant Award: \$3,203,435 CAD.

2019-present Co-Investigator. Intratympanic N-Acetylcysteine (NAC) Injections for Prevention of Cisplatin-Induced Ototoxicity in Head and Neck Cancer Patients: Double-blinded Phase II Randomized Controlled Trial. LRCP Catalyst Grants for Cancer Research and Training Program. PI: Anthony Nichols. Co-Investigators: Sumit Agrawal. Award: \$30,000 CAD.

2018-present Co-Investigator. Oral and Intestinal Microbiome Profiling in Intermediate Risk Locally Advanced Head and Neck Squamous Cell Carcinoma Patients Receiving Chemoradiotherapy and Immunoradiotherapy. CCS Innovation Grant. PI: Anna Spreafico. Co-investigators: Lillian Siu, Bryan Coburn, John Waldron, John Hilton, Wei Xu, Wendy Parulekar, David Guttman. \$200,000 CAD.

ENEPEKIDES, D

2019-2025 Co-Investigator. Open Architecture Surgical Innovation Suite - OASIS: Creating an Informational and imaging Integrated Operating Room for the Next Generation of Surgery. Business Lead Networks of Centres of Excellence (BL-NCE): Refined Manufacturing Acceleration Process 2.0 (ReMAP 2.0) Principal Investigator: Victor Yang MD PhD. Awarded \$500,000.

2020-2023 Co-Investigator. An Evaluation of Patterns of Care, Survival and Healthcare Costs in Patients with Head and Neck Cancer. The Terry Fox New Investigator Award. Principal Investigator: Dr. Antoine Eskander. Sponsoring Investigator: Dr. Natalie Coburn. Co-Investigators: Jonathan Irish, Danny Enepekides, John Kim, Frances Wright, Lesley Gotlib Conn, Zain Husain, Kelvin Chan, Julie Hallet, Alyson Mahar, Christopher Noel, Nicole Mittman Rinku Sutradhar, Houda Bahig. \$442,614 CAD.

2020-2022 Principal Investigator. Symptom Burden as a Predictor of Emergency Room Visits and Unplanned Hospitalizations in Patients with Head and Neck Cancer Innovation Fund Sunnybrook Alternate Funding Plan Grant. Principal Investigators: Drs. Danny Enepekides and Antoine Eskander Co-Investigators: Drs. Natalie Coburn, Jonathan Irish, Zain Husain, John Kim, Julie Hallet, Nicole Mittman, Rinku Sutradhar, Lesley Gotlib Conn, Frances Wright, Christopher Noel. \$100,000 CAD.

2018-2023 Collaborator. Multi-modality Optical Imaging Advancement and Integration in a Neurosurgical Experimental Operating Room. Ontario Research Fund: Research Excellence Round 9. Principal Investigator: Victor Yang MD PhD. Awarded \$1,578,153 CAD.

ESKANDER, A

2022-2024 Co-Investigator. Cancer Care for Patients Diagnosed with Cancer Through the Emergency Department. Canadian Association of Emergency Physicians Grant. Principal Investigator: Grewal, Keerat. Co-Investigators: Jackie Bender, Bjorg Borgundvaag, Sheldon Cheskes, Kerstin de Wit,

Antoine Eskander, Brooke Filsinger, Jonathan Irish, Monica Krzyzanowska, Shelley L McLeod , Rohit Mohindra, Howard Ovens , David Savage, Rinku Sutradhar, Venkatesh Thiruganasambandamoorthy, Rachel Walsh. \$10,000 CAD.

- 2022-2027 Principal Investigator. Decreasing Emergency Department Visits Among Cancer Patients Ontario Ministry of Colleges and Universities Early Researchers Award Round 16. \$190,000 CAD.
- 2022-2024 Co-Investigator. Designing New Care Models for Anesthesiology in Complex Gastrointestinal Surgery by Leveraging Volume-outcome Relationships. Sunnybrook AFP Innovation Fund Operating Grant. Principal Investigator: D'Empaire, Pablo Perez. Co-Investigators: Angela Jerath, Chris Idestrup, Natalie Coburn, Antoine Eskander, Lesley Gotlib Conn, Rinku Sutradhar, Frances Wright, Gianni Lorello, Daniel McIsaac, Alexis Turgeron-Fournier, Jonathan Irish. \$69,117.24 CAD.
- 2022-2024 Co-Investigator. Defining Value for Patient-Centred Cancer Care Delivery. Sunnybrook AFP Innovation Fund Operating Grant. Principal Investigator: Coburn, Natalie. Co-Investigators: Dhruvin Hirpara, Nicole Look-Hong, Antoine Eskander, Matthew Cheung, Nicole Mittmann, Rinku Sutradhar, Alyson Mahar, Julie Deleemans. \$64,625.00 CAD.
- 2022-2024 Co-Investigator. Integrating Equity into Quality Metrics for Colorectal Cancer Care: An Analysis of Wait Times for Curative-intent Surgery. Sunnybrook AFP Innovation Fund Operating Grant. Principal Investigator: Perera Sharon. Co-Investigators: Frances Wright, Antoine Eskander, Anthony Chuk Kae Lott, Elie Isenberg-Grzeda, Alyson Mahar, Natalie Coburn, Adom Bondzi-Simpson, Shady Ashamalla. \$72,277.30 CAD.
- 2022-2024 Co-Principal Investigator. The Impact of COVID-19 on the Diagnosis and Treatment of Breast Cancer (TICTOC): A Population-based Study. CIHR Operating Grant. Principal Investigators: Cil, Tulin D; Eskander Antoine; Zhong Toni. Co-investigators: Eitan Amir, Andrea M Covelli, Vivianne Freitas, Anne Koch, Gary Ko, Amanda Roberts. \$296,920 CAD.
- 2022-2024 Co-Principal Investigator. The Long and Short of Disruptions in Surgical Services due to the COVID-19 Response: The Impact and Path Forward. CIHR Operating Grant. Principal Investigators: Sauro, Khara M; Urquhart, Robin L; Eskander, Antoine. Co-investigators: Jonathan C Irish, Stacy D Litvinchuk, Jill N Robert, Tom Wallace, Tracy J Wasylak, Mary E Brindle, Joseph C Dort, Catherine A Eastwood, Liane S Feldman, Gregory Hirsch, Ivar M Mendez, Geoffrey A Porter, David R Urbach. Collaborators: Sanjay Beesoon, Elijah Dixon, Andrew Graham, Ania Kania-Richmond, Josh Ng, Jason Wrele, Jonathan White. \$252,000 CAD.
- 2022-2023 Co-Applicant. STRIVE Before Surgery Trial: A Vanguard Pragmatic Multicentre Randomized Trial of Structured TRaining to Improve Fitness in a Virtual Environment Before Surgery. CIHR Project Grant. Principal Applicants: McIsaac, Daniel; Gillis, Chelsia; Hallet Julie; Kidd, Gurlie; McNeely, Margaret; Taljaard, Monica; Tandon, Puneeta; Wijesundera, Duminda. Co-Applicants: Rebecca Auer, Laura Boland, Rodney Breau, Gregory Bryson, Tyler Chesney, Antoine Eskander, Dean Fergusson, Alan Forster, Sylvain Gagne, Marlyn Gill, Emily Hladkovicz, Rachel Khadaroo, Manoj Lalu, Luke Lavallee, Guillaume Martel, Colin McCartney, Husein Moloo, Derek Roberts, Celena Scheede-Bergdahl, Pablo Serrano, Kednapa Thavorn, Carl van Walraven, Kelly Vogt, Merrick Zwarenstein. Collaborators: Karim Abdulla, Sylvain Boet, Timothy Jackson, John Joannis, Cameron Love, Amanda Meliambro, Sudhir Nagpal, Daniel Trottier, Ilun Yang. \$260,100 CAD.

- 2022-2023 Co-Applicant. The Canadian Prehabilitation Network Review: A Systematic Review and Component Network Meta-analysis to Inform Prehabilitation Design and Evaluation. CIHR Project Grant. Principal Applicants: McIsaac, Daniel; Boland, Laura; Gill, Marlyn; Gillis, Chelsia; Hutton, Brian. Co-Applicants: Sylvie Aucoin, Rebecca Auer, Paul Beaulieu, Gregory Lyle Bryson, Francesco Carli, Antoine Eskander, Dean Fergusson, Julio Fiore Jr, Alan Forster, Alexa Grudzinski, Jayna Holroyd-Leduc, Rachel Khadaroo, Manoj Lal, Guillaume Martel, Colin McCartney, Julie Nantel, Stephane Poitras, Celena Scheede-Bergdahl, Monica Taljaard, Areti Veroniki, Duminda Wijeyesundera. Collaborators: Shamsuddin Akhtar, Marlis Atkins, Carlota Basualdo-Hammond, Mary Brindle, Melani Gillam, Leah Gramlich, Timothy Jackson, Cameron Love, Dolores McKeen, Amanda Meliambro, Husein Moloo, Ronald Moore, John Muscedere, R Shorr, Tom Wallace. \$100,000 CAD.
- 2022-2024 Co-Principal Investigator. The Tsunami After the Earthquake: COVID-19 Impact on Cancer Care and Outcomes. CIHR Operating Grant: Addressing the Wider Impacts of COVID-19. Principal Investigators: Eskander, Antoine and Sutradhar, Rinku. Co-Investigators: Rui Fu, Kelvin Chan, Natalie Coburn, Craig Earle, Danny Enepekides, Lesley Gotlib Conn, Julie Hallet, Timothy Hanna, Jonathan Irish, Monika Krzyzanowska, Lauren Lapointe-Shaw, Linda Rabeneck, Jill Tinmouth, David Urbach, Simone Vigod, Frances Wright. \$339,000 CAD.
- 2022-2024 Principal Investigator. Patient Reported Symptom Burden as a Predictor of Emergency Department Use and Unplanned Hospitalization: A Multi-Methods Approach to Improving Head and Neck Cancer Care in Ontario. Canadian Cancer Society Challenge Grant. Principal Investigator: Eskander, Antoine. Co-Applicants: Kelvin Chan, Natalie Coburn, Lesley Gotlib Conn, Julie Hallet, Zain Husain, Irene Karam, Rinku Sutradhar. Additional Author (Trainee): Christopher Noel. \$439,095 CAD.
- 2022-2024 Co-Applicant. Transitions in Care Among Patients with Cancer (CanTiC). Canadian Cancer Society Challenge Grant. Principal Investigator: Sauro, Khara. Co-Applicants: Antoine Eskander, Darren Brenner, Shamir Chandarana, Winson Cheung, Colleen Cuthbert, Joseph Dort, Khara Sauro, Joon Lee, Jeanna Parsons Leigh, Yuan Xu. \$414,760 CAD.
- 2021-2029 Co-Investigator. SPECT-CT Guided Elective Contralateral Neck Treatment (SELECT) for Patients with Lateralized Oropharyngeal Cancer: A Phase III Randomized Controlled Trial. CIHR Project Grant. Principal Investigators: Wendy Parulekar, John de Almeida, Ali Hosni Abdalaty. Co-Investigators: Houda Bahig, Mathieu Belzile, Bingshu Chen, Douglas Chepeha, Apostolos Christopoulos, Antoine Eskander, John Hilton, Murray Krahn, Stephen Lai, Rosemary Martino, Mihir Patel, Eitan Prisman, Jolie Ringash, John Waldron, Han Zhang. Collaborators: Nathalie Audet, Vincent Biron, Christopher Chin, Jennifer Cicci, Natasha Cohen, Thomas Galloway, Stephanie Johnson-Obaseki, Mathieu Leclerc, Danielle MacNeil, Larry Marshall, Caitlin McMullen, Eric Monteiro, Farah Naz, Matthew Old, Rathana Subramaniam. \$3,200,000 CAD.
- 2021-2023 Co-Principal Investigator. Harnessing Patient-reported Outcomes to Support Psychological Distress After a Cancer Diagnosis. Sunnybrook AFP Innovation Fund Operating Grant. Co-Principal Investigator: Elie Isenberg-Grzeda. Co-Investigators: Julie Hallet, Julie Deleemans, Stephanie Mason, Lesley Gotlib Conn, Janet Ellis, Simon Vigod, Zain Husain, Rinku Sutradhar, Barbara Haas, Alyson Mahar, Nicole Look-Hong, Natalie Coburn, Craig Earle, Karen Fergus, Kiersty Hong, Christopher Noel. \$98,276.34 CAD.

- 2021-2023 Co-Investigator. A Multicentre Randomized Phase Trial II of the Efficacy of Sodium Thiosulfate (STS) and Mannitol in Reducing Ototoxicity in Adult Patients Receiving Cisplatin Chemotherapy with Curative Intent. Sunnybrook AFP Innovation Fund Operating Grant. Principal Investigator: Trung N. Le. Co-Investigators: Antoine Eskander, Danny Enepekides, Kevin Higgins, Vincent Lin, Joseph Chen, Geoffrey Liu, Rena Buckstein. \$99,317.92 CAD.
- 2021-2022 Principal Investigator. Gaps in Management of System-Wide Depression Screening in Patients with HNC. AAO-HNSF Health Services Research Grant. Principal Investigator: Eskander, Antoine. Co-Investigators: Christopher Noel, Jonathan Irish, Simone Vigod, Julie Hallet, Rinku Sutradhar, David Forner. \$10,000 USD.
- 2021-2022 Co-Investigator. An Umbrella Review of Prehabilitation Interventions in Surgery to Inform Policy and Practice. CIHR Project Grant. Principal Investigators: Daniel McIsaac, Laura Boland, Brian Hutton, Marlyn Gill. Co-Investigators: Sylvie Aucoin, Franco Carli, Sascha Davis, Antoine Eskander, Dean Fergusson, Julio Fiore Jr, Alan Forester, Chelsia Gillis, Alexa Grudzinski, Rachel Khadaroo, Manoj Lalu, Guillaume Martel, Colin McCartney, Husein Moloo, Julie Nantel, Stephane Poitras, Celena Scheede-Bergdahl, Monica Taljaard, Duminda Wijeyesundera. \$103,275 CAD.
- 2020-2021 Principal Investigator. Cancer Surgery and COVID19: Infection Rate, Processes and Outcomes. Sunnybrook Foundation & Sunnybrook Research Institute COVID-19 Research Initiative. Co-Principal Investigator: Rinku Sutradhar. Co-Investigators: Julie Hallet, Natalie Coburn, Nicole Look-Hong, Simron Singh, Jonathan Irish, Monika Krzyzanowska, Craig Earle, Lauren Lapointe-Shaw, Danny Enepekides, Antonio Finelli, David Urbach, Alexander Louie, Alyson Mahar, Timothy Hanna, Ian Witterick. \$106,380 CAD.
- 2020-2024 Principal Investigator. An Evaluation of Patterns of Care, Survival and Healthcare Costs in Patients with Head and Neck Cancer. The Terry Fox New Investigator Award. Sponsoring Investigator: Dr. Natalie Coburn. Co-Investigators: Jonathan Irish, Danny Enepekides, John Kim, Frances Wright, Lesley Gotlib Conn, Zain Husain, Kelvin Chan, Julie Hallet, Alyson Mahar, Christopher Noel, Nicole Mittman Rinku Sutradhar, Houda Bahig. \$442,614 CAD.
- 2021-2023 Co-Principal Investigator. Symptom Burden as a Predictor of Emergency Room Visits and Unplanned Hospitalizations in Patients with Head and Neck Cancer. Innovation Fund Sunnybrook Alternate Funding Plan Grant. Principal Investigators: Drs. Antoine Eskander and Danny Enepekides. Co-Investigators: Drs. Natalie Coburn, Jonathan Irish, Zain Husain, John Kim, Julie Hallet, Nicole Mittman, Rinku Sutradhar, Lesley Gotlib Conn, Frances Wright, Christopher Noel. \$100,000 CAD.
- 2019-2022 Co-Applicant. PREPARE Trial: A Parallel Arm Multicentre Randomized Trial of Frailty-focused PReoperative Exercise to Decrease PostoperAtive Complication Rates and Disability scorEs. CIHR Project Grant. Principal Investigators: Daniel McIsaac, Dean Fergusson, Rachel Khadaroo, John Muscedere, Monica Taljaard. Co-Applicants: Colin McCartney, Sylvain Boet, Husein Moloo, Luke Lavallee, Sylvain Gagne, Rodney Breau, Alan Forster, Barbara Power, Allen Huang, Manoj Lalu, Sudhir Nagpal, Laura Boland, Julie Nantel, Antonio Caycedo, Antoine Eskander, Jayna Holroyd-Leduc, Ana Johnson, Grace Ma, Janet McElhaney, Tarit Saha, Celena Scheede-Bergdahl, Kednapa Thavorn, Carl van Walraven, Duminda Wijeyesundera. \$1,136,025 CAD.

GORDON, K

- 2020-2024 Primary Investigator. Novel Treatment to Promote Spatial Hearing in Children who are Deaf. Co-Investigators: Papsin, B.C., Cushing, S.L.; Collaborators: Scollie, S., Papaioannou, V., CIHR Project Grant, Fall 2019 competition. \$559,980 CAD.
- 2022-2024 Co-Principal Investigator. Autism and Apraxia. Research Endowment. Co-PIs: Darren Kadis and Elizabeth Pang. \$250,000 CAD.
- 2022-2023 Co-Principal Investigator. Developmental Effects of Concurrent Vestibular and Auditory Dysfunction in Childhood. Research funding Department of Otolaryngology-Head & Neck Surgery, University of Toronto, Co-PIs Melissa Hazen, Sharon Cushing. \$25,000 CAD.

HIGGINS, K

- 2021 Co-Principal Investigator. Microvascular Training Model. Temerty Foundation Grant. \$75,000 CAD.
- 2020-2022 Co-Investigator. A Pilot Study of the Inflammatory Response in Oral Squamous Cell Carcinoma by Saliva, Plasma and Tissue Analysis. Canadian Institute of Health Research team grant. Collaborator(s): Grace Bradley, DDS, MSc. FRCDC, Marco Magalhaes, DDS, PhD; Beatrice Lau, DDS, MSc. Dept. of Dentistry, Sunnybrook Health Sciences Centre, Faculty of Dentistry, University of Toronto. \$100,000 CAD.
- 2019-present Co-Principal Investigator. Analysis of Patterns of Recurrence in Head and Neck Cancer Using Clinicopathomic Markers. Kavelman Fonn Clinical Trial Grant Collaborator(s): Tran W, Karam I, Curpen B, Weinreb I, Higgins K, Tabbarah S, Law C, Czarnota G. \$75,000 CAD.
- 2019-present Co-Investigator. Protective Effects of Sodium Thiosulfate and Mannitol Against Cisplatin-induced Hearing Loss: A Phase II Randomized Controlled Trial. New frontiers in Research Fund – Exploration Collaborator(s): Lin V, Chen J, Enepekides D, Karam I, Poon I, Hussain Z, Eskander A, Higgins KM. \$125,000 CAD.
- 2018-present Co-Investigator. Improving Integrative Care and Patient Experience by Diffusing and Disseminating Study Results of "Assessing the Impact of Cancer Care Ontario's Psychosocial Oncology & Palliative Care Pathway in Head and Neck Cancer Patients". Sunnybrook Health Sciences Centre Education Research and Scholarship Grant. Principal Investigator: Ellis J. Collaborator(s): Higgins KM. \$8,500 CAD.
- 2015-present Co- Investigator. The Application of MR-guided HIFU for Regionally Recurrent Unresectable Head and Neck Carcinoma. FUS Foundation. Principal Investigator: Lee J. Collaborator(s): Enepekides D, Higgins KM. \$75,000 CAD.
- 2014-present Co-Investigator. Defining a Personalized Hypoxic Radiation Target Through Correlation of Functional F18-FAZA PET Imaging to Pimonidazole-stained 3D Whole-mounted Histological Specimen. University of Toronto Department of Radiation Oncology/Cancer Imaging Network of Ontario. Principal Investigator: Poon I. Collaborator(s): Higgins KM, Yaffe M, Ward A, Enepekides D, Weinreb I, Zukotynski K. \$80,000 CAD (UT-DRO: \$50,000 CAD / CINO: \$30,000 CAD).

IRISH, J

2022-2024	Co-Investigator. Cancer care for patients diagnosed with cancer through the emergency department. Canadian Association of Emergency Physicians. Grewal K. (PI) \$10,000 CAD.
2022-2025	Co-Investigator. Canadian Cancer Real-world Evaluation (CCRE) Platform. Canadian Agency for Drugs and Technologies in Health Post-Market Drug Evaluation Core Network Partnership Grant. PI: Chan K. \$2,815,546.15 CAD.
2022-2024	Knowledge User. The Long and Short of Disruptions in Surgical Services Due to COVID-19 Response: The Impact and Path Forward. CIHR Operating Grant: Addressing the Wider Impacts of COVID-19. PI: Sauro KM. \$252,000 CAD.
2022-2024	Knowledge User/Co-Investigator. The Tsunami after the Earthquake: COVID-19 Impact on Cancer Care and Outcomes. CIHR Operating Grant: Addressing the Wider Impacts of COVID-19. 2022-2024. PIs: A Eskander, R Sutradhar. \$170,000 CAD.
2022-2024	Principal Investigator. Nanoparticle Enabled Photodynamic Therapy and Fluorescence Guided Surgery for Treatment of Oral Cavity Cancer. Canadian Cancer Society Challenge Grant. Co-PI: Zheng Co-applicants/collaborators: M Oblak, R Foster, B Wilson, N Muhanna, R Weersink. PI: J Irish. \$401,700 CAD.
2022-2024	Knowledge User. Designing New Care Models for Anesthesiology in Complex Gastrointestinal Surgery by Leveraging Volume-outcome Relationships. Sunnybrook AFP Innovation Fund. PI: Perez D'Empaire. \$69,117.24 CAD.
2022-2024	Knowledge User. Patient Reported Symptom Burden as a Predictor of Emergency Department Use and Unplanned Hospitalization: A Multi-Methods Approach to Improving Head and Neck Cancer Care in Ontario". Canadian Cancer Society. PI-A Eskander. \$439,095 CAD.
2021-2024	Co-Investigator/Overall Clinical Lead. First-in-Human Porphysome Nanotechnology for Precision Tumour Ablation and Surgical Guidance, OICR Clinical Acceleration Team Awards. Ontario Institute for Cancer Research. PI: G Zhang. \$1,130,803 CAD.
2021-2023	Co-Principal Investigator. First-in-Human Porphysome Nanotechnology for Precision Tumour Ablation and Surgical Guidance. The Agnico Eagle Beyond Chemotherapy Grand Challenge. PIs: A Oza, J Irish, B Wilson. \$500,000 CAD.
2021-2022	Co-Investigator. The Surgical EQUITY Initiative: Establishing Equitable Access to Surgery Following the Pandemic. CIHR Operating Grant: Emerging COVID-19 Research Gaps & Priorities. PI: David Gomez. July 2021 \$220,596 CAD.
2021-2022	Co-Investigator. Pre-CTA/protocol Design for the First-in-Human Porphysome Clinical Trial. Princess Margaret Research Stimulus Grant. PI: G Zhang. \$75,000.00 CAD.
2021-2022	Co-Investigator. Resumption of Surgery After the COVID-19 Pandemic: Evaluation and Recommendations Using Population-based Data. St. Michael's Hospital Foundation Research Investment Council Grant. PI: D Gomez. \$190,000 CAD.

2020-2023	Knowledge User. Symptom Burden as a Predictor of Emergency Room Visits and Unplanned Hospitalizations in Patients with Head and Neck Cancer - An Evaluation of Patterns of Care, Survival and Healthcare Costs in Patients with Head and Neck Cancer. Terry Fox New Investigator Award. PI: A Eskander. \$445,314 CAD.
2020-2022	Co-Investigator. Symptom Burden as a Predictor of Emergency Room Visits and Unplanned Hospitalizations in Patients with Head and Neck Cancer. AFP Innovation Fund. PI: A Eskander. \$100,000 CAD.
2019-2021	Co-Principal Investigator. 3-D Fluorescence Imaging for Guidance of Head and Neck Cancer Surgery. The Raymond Ng and Wendy Chui Foundation for Innovation in OHNS Award. Co-PI: Michael Daly. \$200,000 CAD.

LE, T

2019-2023	Co-Principal Investigator. Neurodegenerative Mechanisms by TrkC.T1 and p75 Receptors: Target Validation and Rationale for Therapeutic Intervention. CIHR Project grant. \$1,361,700 CAD.
2021-2023	Principal Investigator. Protective Effects of Sodium Thiosulfate and Mannitol Against Cisplatin-induced Hearing Loss: A Phase II Randomized Controlled Trial. Sunnybrook AFP-IPOC grant. \$100,000 CAD.
2020-2022	Principal Investigator. Magnetic Targeting Delivery of Neurotrophic Gene Therapy for the Treatment of Hearing Loss. Triological Society Career Development Award. \$40,000 USD.

LEE, J

2020-present	Principal Investigator. Levels of Nasal Nitric Oxide and Inducible Nitric Oxide Synthase Expression in Chronic Rhinosinusitis with Nasal Polyposis. Harry Barberian Grant. Collaborator(s): Wu V. \$10,000 CAD.
2019-present	Principal Investigator. Nasal Nitric Oxide as a Biologic Marker for Long-term Mucosal Health in Patients with Chronic Rhinosinusitis Undergoing Endoscopic Sinus Surgery. Harry Barberian Grant. Collaborator(s): Wu V, Lee D. \$5,295 CAD.

LIN, V

2019-2024	Consultant. Role of Health Literacy and Alzheimer's Disease and Related Dementia in Older Adults with Hearing Loss. NIH. PI: McKee, Michael \$606,904 USD.
2019-2023	Co-Principal Investigator. Elucidating the Paradox of TrkC Receptor Isoforms Causing either Neuronal Survival or Degeneration: Target Validation and Therapeutic Rationale Using Isoform-Selective Pharmacological and Biological Tools. Canadian Institutes of Health Research. \$1,750,000 CAD.

MARTINO, R

2021-2025	Co-Investigator (Swallowing Outcomes). SPECT-guided Elective Contralateral Neck Treatment (SELECT) in Oropharynx Cancer: A Phase III RCT. Canadian Institutes of Health Research. Grant PI: J de Almeida, A Hosni, W Parulekar. Co-investigators: J Ringash.
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2020-2023	Principal Investigator. Validation of an On-line Independent Training for TOR-BSST© Dysphagia Screeners. Heart and Stroke Foundation of Canada Bridge Grant. Co-investigator: L. Casaubon. \$40,000 CAD.
2019-2023	Co- Principal Investigator. Development and Validation of an On-line Independent Training Program for TOR-BSST© Dysphagia Screeners. Alternate Funding Plan Innovation Fund. Co-PI: L Casaubon \$143,781 CAD.
2019-2023	Principal Investigator. Creation of a TOR-BSST© eLearning Platform for Dysphagia Screeners. Canadian Institute of Health Research Planning and Dissemination Grant. Co-investigators: C. Arulvarathan, L. Casaubon, S. Darling, B Jenkins, K. Wingrove. \$20,000 CAD.
2018-2021	Co-Investigator. Efficacy of the Rehabilitation Planning Consult for Survivors of Head and Neck Cancer: A Phase II Randomized Controlled Trial. Canadian Cancer Society Research Institute, Innovation to Impact Grant. PI: J. Ringash. Co-Investigators: A. Davis, L. Moody, K. Higgins, J. Jones, S. McEwen. \$450,000 CAD.
2018-2023	Co-Investigator. The Development and Validation of a Novel Tool for the Assessment of Bulbar Dysfunction in ALS. National Institutes of Health National Institutes of Deafness and Communications Disorders. PI: Yunusova, Y. Co-PI: Green JR. Co-investigators: Barnett-Tapia C, Berry J, Zinman L. \$2,276,390 USD.
2018- 2023	Principal Investigator. Canada Research Chair (Tier II) in Swallowing Disorders. Canada Research Chairs. \$500,000 CAD.
2018-2024	Co-Principal Investigator. PRO-ACTIVE: Comparing the Effectiveness of PROphylACTic Swallow InterVENTion for Patients Receiving Radiotherapy for Head and Neck Cancer. Patient Centered Outcomes Research Institute. Co-PI: K. Hutcheson. Co-Investigators: S. Langmore, T. McCulloch, C. Lazarus, K. Thorpe, D. Fuller, J. Ringash, A Hope, C. McDonald, M. Fitch, J. Theurer, D. Palma, K. Sultanem, K. Pytynia. \$8,509,931 USD.
2017-2022	Co-Investigator. Finding/Identifying Primaries with Neck Disease (FIND Trial): A Pilot Study Integrating Transoral Robotic Surgery, Histopathologic Localization, and Tailored De-intensification of Radiotherapy for Unknown Primary and Small Oropharyngeal Head and Neck Squamous Cell Carcinoma. Princess Margaret Cancer Foundation, Innovation Funds for Surgical Oncology. PI: J de Almeida. Co-Investigators: J Kim, D Chepeha, SV Bratman, DP Goldstein, R Jang, E Yu, U Metser, I Weinreb, B Perez-Ordóñez, W Xu. \$70,000 CAD.

PROPST, E

2022-2024	Co-Investigator. Positional Sleep Therapy for the Management of Obstructive Sleep Apnea in Children –The POSAtive trial. Physician's Services Incorporated. Co-Investigator(s): Narang I, Propst E, Xiao L, Kendzerska T, Ryan C, McLaren A, Baker A. \$185,000 CAD.
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VESCAN, A

2019-present	Co-Primary Investigator. Novel Applications of Cannabidiol in Rhinosinusitis a Murine Model. Raymond Ng Innovation Fund, Department of OHNS, University of Toronto. Drs. Amr Hamour, Jong Lee, Eric Monteiro, John Lee. \$200,000 CAD.
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WITTERICK, I

2020-2021 Co-Investigator. Cancer Surgery and COVID-19: Infection Rate, Processes and Outcomes. Sunnybrook Foundation & Sunnybrook Research Institute COVID-19 Research Initiative. PIs: Antoine Eskander, Rinku Sutradhur. Co-investigators: Julie Hallet, Natalie Coburn, Nicole Look-Hong, Simron Singh, Jonathan Irish, Monika Krzyzanowska, Craig Earle, Lauren Lapointe-Shaw, Danny Enepekides, Antonio Finelli, David Urbach, Alexander Louie, Alyson Mahar, Timothy Hanna, Ian Witterick. \$106,380 CAD.

WOLTER, N

2021-2022 Principal Investigator. RNA-based Diagnostics for Pediatric Thyroid Cancer Treatment Stratification. Hospital for Sick Children Peri-operative Services Facilitator Grant. Applicant: Nikolaus E. Wolter. Collaborators: Jennifer K. Wolter, Evan J. Propst, Jonathan Wasserman. \$10,000 CAD.

2021-2022 Principal Investigator. Novel Targets in the PI3K and RAS Pathways for the Treatment of Lymphatic Malformations of the Head and Neck. University of Toronto Department of Otolaryngology-Head & Neck Surgery Research Grant. Applicant: Nikolaus E. Wolter. Collaborators: Jennifer K. Wolter, Alexander J. Osborn. \$25,000 CAD.

2020-2021 Co-Investigator. Total and microRNA-based Diagnostics for Pre- and Post-operative Treatment Stratification of Children and Adolescents with Thyroid Masses and Thyroid Carcinoma. Pitblado Discovery grant. Collaborators: Jonathan Wasserman, Nikolaus E Wolter, Evan Propst, George Youseff, Jennifer Wolter. \$56,799 CAD.



Residents & Fellows

Residents & Fellows

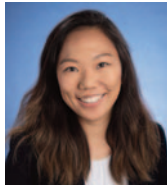
PGY 1

Mandolin Bartling
Tian (Tanya) Chen
Elysia Grose
Ahmad Mirza
Amirpouyan Namavarian
Gianluca Sampieri



PGY 2

Alexander Gabinet-Equihua
Garret Horton
Marc Levin
Justine Philteos
Ahmed Saleem
Lily Wang



PGY 3

Fahad Aldhahri
Adam Kwinter
Chantal Li
Christopher Noel
Dongho (Brian) Shin
Edward Sykes
Grace Yi



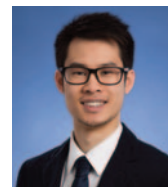
PGY 4

Amr Hamour
Jong Wook (John) Lee
Vincent Wu
Weining Yang
Hedyeh Ziai



PGY 5

Justin Cottrell
Terence Fu
Daniel Joonil Lee
Shireen Samargandy
Jennifer Siu
Neil Verma



Fellowship	Fellow	Country of Training	Mentor(s)
Head and Neck Surgical Oncology	Abdulrahman Alenazi Timothy Eviston Shayanne Lajud Guerrero Mohammed Mamdani Mirko Manojlovic Kolarski Susannah Orzell Axel Sahovaler Sharon Tzelnick	Saudi Arabia Australia Dominican Republic United States Canada United States Argentina Israel	University Health Network: Drs. Dale Brown, Douglas Chepeha, John de Almeida, Jonathan Irish, Ralph Gilbert, David Goldstein, Patrick Gullane Sinai Health: Dr. Jeremy Freeman Sunnybrook HSC: Drs. Danny Enepekides, Kevin Higgins
University Health Network Otolaryngology Research Fellowship	Leonardo Franz	Italy	University Health Network: Drs. Ralph Gilbert, Jonathan Irish
Facial Plastic & Reconstructive Surgery	Yelda Jozaghi	Canada	Dr. Andres Gantous
Facial Plastic & Reconstructive Surgery	Dianne Valenzuela	Canada	Dr. Oakley Smith
Facial Plastic & Reconstructive Surgery	Zachary Farhood	United States	Dr. Jamil Asaria
Facial Plastic & Reconstructive Surgery	Islam Alzayadneh Eran Glikson	Jordan Israel	Drs. Philip Solomon and Richard Rival
Paediatric Otolaryngology	Tal Honigman Anne-Sophie Prevost	Israel Canada	Hospital for Sick Children: Drs. Paolo Campisi, Sharon Cushing, Adrian James, Blake Papsin, Evan Propst, Nik Wolter
Rhinology, Skull Base and Head & Neck Oncology	Neil Arnstead Maru Gete	Canada Israel	Sinai Health: Drs. Ian Witterick, Allan Vescan, Eric Monteiro
Otology Skull Base Surgery	Demir Bajin Valerie Dahm	Turkey Austria	Sunnybrook HSC: Drs. Joseph Chen, Vincent Lin
Medical & Surgical Otology/Neurotology	Sasan Dabiri Fatemeh Hassan Nia Gabriela Vergara	Iran Iran Chile	University Health Network: Drs. John Rutka, Neil Bailie Markham Stouffville Hospital: Drs. Jerry Halik, Ambrose Lee
Laryngology	Zainab Bakhsh María Isabel Besserer Ochoa	Saudi Arabia Mexico	St. Michael's Hospital: Dr. Jennifer Anderson



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Departmental Awards

Departmental Awards Program

These awards were presented at Percy Ireland Academic Day or the at the Percy Ireland Dinner.

Resident Awards



Dr. Vincent Wu (PGY4) received the *Freda Noyek Otolaryngology Merit Award* - In recognition of special commitment to patient care and/or academic achievement.



Dr. Dongho (Brian) Shin (PGY3) received *The Shiley E.O. Pelausa Awards* - For demonstration of excellent clinical work by a PGY3.



Dr. Justine Philteos (PGY2) received the *Judy Chauvin Otolaryngology Resident Award* - In recognition of an enthusiastic interest in the initiation of a serious otolaryngology-related research project.



Dr. Joel Davies received the *Chapnik, Freeman and Friedberg Clinical Scientist Program Award* - In recognition of a resident/fellow (who are postgraduate MD trainees) or junior faculty in the Department of Otolaryngology-Head & Neck Surgery enrolled in a Master of Science or Master in Education, Master of Health Science, or PhD degree at the University of Toronto, to pursue advanced research training.



Dr. Christopher Noel (PGY3) received the *Wharton Head & Neck Research Award* - In recognition of the best paper in head and neck oncology presented at the Percy Ireland Academic Day.

Fellow Awards



Dr. Hedyeh Ziai received the *Kris Conrad Merit Award in Facial Plastic Surgery* - For demonstrating achievements in the field of research, and perseverance in attaining the highest level of expertise in the performance of facial plastic surgery.



Dr. Corliss Best (Ottawa) received the *Wilfred Goodman Award in Facial Plastic and Reconstructive Surgery* - Awarded to a resident or fellow who is undertaking their education and research in the field of facial plastic and reconstructive surgery.

Teaching Awards



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



Dr. Justin Cottrell received the *Resident Teacher of the Year Award* - Awarded to a PGY5 resident in our program who is judged to have been an outstanding teacher to other residents and medical students during their residency.



Dr. Mirko Manojlovic Kolarski received the *Fellow Teacher of the Year Award* - Awarded to a fellow in our program who is judged to have been an outstanding teacher to residents and medical students during their fellowship.



Dr. Trung Le 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.

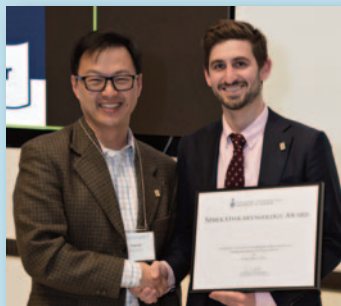


Dr. Danny Enepekides received the *Resident Advocate Award* - In recognition of an individual faculty member who particularly demonstrates commitment to advocacy in the residency program.



Dr. Yvonne Chan 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.

Research Awards



Dr. Adam Kwinter received the *Nimeck Otolaryngology Award* – Awarded to residents in the Department of Otolaryngology-Head & Neck Surgery, with preference given to those who have an interest in hearing loss and/or skull base tumours.



Ms. Bahar Golbon received the *Dr. Raymond H. W. Ng Graduate Award* - Awarded to a graduate student (international or domestic) enrolled in a (full-time or part-time) MSc program in the University of Toronto associated with the Department of Otolaryngology-Head & Neck Surgery. Special consideration is given, subject approval of the committee, to a candidate who wishes to carry out his/her academic commitment at an institution other than University of Toronto.



Dr. Melissa Hazen received the *Dr. Raymond H. W. Ng PhD Awards* - Awarded to a graduate student (international or domestic) enrolled in a PhD program (full-time or part-time) in the University of Toronto associated with the Department of Otolaryngology-Head & Neck Surgery.





Percy Ireland Academic Day

Annual Percy Ireland Dinner Thursday May 5, 2022

The Yorkville Royal Sonesta Hotel Toronto





30th Annual Percy Ireland Academic Day

Friday May 6, 2022

The Department of Otolaryngology-Head & Neck Surgery held its 30th Annual Percy Ireland Academic Day at the University of Toronto's Myhal Centre, Auditorium on May 6, 2022.



Dr. Patrick Gullane, CM, OOnt, MB, FRCSC, FACS, Hon FRACS, Hon FRCS, Hon FRCSI (Professor, Department of Otolaryngology-Head & Neck Surgery, Temerty Faculty of Medicine, University of Toronto) delivered *The Percy Ireland Oration* on May 5, 2022 titled: *"My Journey: Lessons Learned-Imagine the Future"*.



Dr. Robert V. Harrison was our Guest of Honour (Professor, Department of Otolaryngology-Head & Neck Surgery, Temerty Faculty of Medicine, University of Toronto)

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/post-doctoral fellows:
Awarded to Dr. Jackie Ogier for her project: "ASK1 is a Novel Molecular Target for Preventing Aminoglycoside Induced Hair Cell Death". Mentor: Dr. Alain Dabdoub



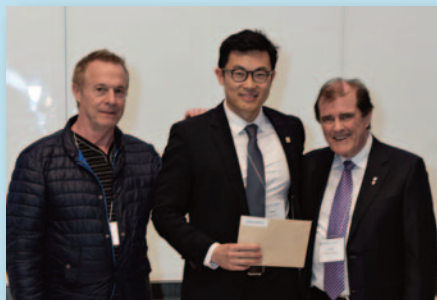
Category 2 - Work undertaken by PGY2 residents during clinical rotation: Awarded to Dr. Justine Philteos for her project: "Impact of Advanced Hemodynamic Monitoring on Intra-operative Hypotension Following Head and Neck Free Flap Reconstructive Surgery: A Matched Before– After Study". Mentor: Dr. David Goldstein

And

Dr. Lily Wang for her project: "Automation and Optimization of Radiological Interpretation of Chronic Rhinosinusitis on Paranasal Sinus Computed Tomography ('Deep Sinus CT')". Mentor: Dr. John Lee



Category 3 - Work undertaken by PGY3 residents during clinical rotation: Awarded to Dr. Dongho (Brian) Shin for his project: "OtoVIS - Examining the Utility of a Photorealistic Virtual Ear in Otologic Education". Mentor: Dr. Justin Lui



Category 4 - Work undertaken by PGY4 residents during clinical rotation: Awarded to Dr. Vincent Wu for his project: "Levels of Nasal Nitric Oxide and Inducible Nitric Oxide Synthase Expression in Chronic Rhinosinusitis with Nasal Polyposis". Mentor: Dr. John Lee



Category 5 – Work undertaken by post-residency research & clinical fellows during clinical rotation: Awarded to Dr. M. Demir Bajin for his project: "The Ototoxicity of Ceftazidime, Vancomycin, and Clotrimazole in the Rat Middle and Inner Ear". Mentor: Dr. Trung Le



Dr. Ian Witterick Research Award (Best Overall Presented Paper): Awarded to Dr. Christopher Noel for his project: "Predicting Emergency Department Use and Unplanned Hospitalization in Patients with Head and Neck Cancer: Development and Validation of a Machine Learning Algorithm". Mentors: Drs. Natalie Coburn, Tony Eskander, Rinku Sutradhar



Dr. Ian Witterick Research Award (Other): Awarded to Dr. Jackie Ogier for her project: "ASK1 is a Novel Molecular Target for Preventing Aminoglycoside Induced Hair Cell Death". Mentor: Dr. Alain Dabdoub

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Departmental Committee Reports



Executive Committee

Dr. I. Witterick (Chair)

Members: Paolo Campisi, Yvonne Chan, Al Chiodo, Janet Chung, Alain Dabdoub, Danny Enepekides, Andres Gantous, Ralph Gilbert, Karen Gordon, Patrick Gullane, Kevin Higgins, Bradley Hubbard, Jonathan Irish, John Lee, Vicky Papaioannou, Blake Papsin, Allan Vescan.

The departmental Executive Committee is the senior advisory body to the Chair. The committee includes the hospital chiefs, the directors of undergraduate and postgraduate medical education, continuing professional development, education and research vice-chairs, chairs of committees (Advancement, Departmental Appointments Committee, Promotions and Quality & Safety), the heads of our four divisions (1. Audiology; 2. Facial Plastic and Reconstructive Surgery; 3. Head & Neck Oncology and Reconstructive Surgery and 4. Rhinology) and a representative from the Community Academic Faculty. The Executive Committee receives reports from all standing committees on a monthly basis and distributes minutes of the meetings to faculty members. The committee provides guidance to the Chair in all matters related to the functioning of the department. The committee continues to work well providing input and advice on the running and future directions of our department. I am indebted to the high calibre of collegiality and assistance from the members of this committee.



Undergraduate Medical Education Committee

Dr. Allan Vescan (Chair)

Members: Jason Atlas, Dale Brown, Paolo Campisi, Sharon Cushing, Vinay Fernandes, Aman Grewal, Kevin Higgins, Brad Hubbard, John Lee, Bosco Lui, Raewyn Seaberg, Manish Shah, Jack Shahin; Clerkship Student Representative: Justin Shapiro

Our Undergraduate Medical Education (UME) Portfolio has experienced an ever-fluctuating environment following 1-2 years of the pandemic. The Pre-clerkship Foundations years are again being delivered with an in person curriculum in the classroom and normal resumption of physical exam skills in person with small groups. Over 1000 medical students are exposed to our specialty in various educational opportunities throughout their four years of medical school in both our academic and community academic centres. The continued changing environment of delivery of medical school content, the post pandemic fatigue and gaps in learning our learners experienced over the past 2 years placed significant stress on our learners and faculty throughout the 2021-22 academic year. With a renewed focus on wellness of learners and faculty we will strive to recharge and revitalize our teaching of undergraduate medical students.

Pre-Clerkship Courses

Dr. Brad Hubbard continues to represent our department during the pre-clerkship curriculum as assistant UME director and leads in the delivery of the Foundations Curriculum. The courses include ICE 1 and 2, TOPIC, Portfolio and Longitudinal Elective courses.

Post-Clerkship Courses

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

We have been very fortunate to receive funding from the university to purchase approximately 60 mobile OtoSim/OphthoSim units to help deliver the clerkship seminar content remotely with virtual OtoSim sessions. This program began in August and September of 2020 and we are indebted to the contributions of Dr. Vito Forte and Dr. Paolo Campisi as they built the foundation for simulation seminars in our clerkship portfolio. The challenge will lie in sustaining this initial support from the university as ongoing simulation education involves significant human and capital investment.

The clerkship course continues to be delivered with our hybrid model, where half of the approximately 260 medical students will rotate through our community academic sites and half will be in our more traditional academic teaching units. After 2 years of the pandemic all our community sites have been able to come back online to provide an improved environment for our learners. We are moving toward a clerkship redesign to be rolled out in the future date to be determined. Stay tuned for updates.

The UME Committee struck a task force together in early 2022 to update and modernize the learning

guide for clerks as they move through their one-week rotation with us. Thank you to all members of the task force that gave their time and knowledge to this important document. We aim to have it ready for the start of the 2023 academic year.

I would like to sincerely thank all our faculty for their amazing contributions to UME over this past year and look forward to your continued support. Special thanks to all our site co-ordinators, Dr. John Lee, Dr. Brad Hubbard and Andrea Donovan for their tireless effort in the delivery of UME for our department. This will be my final report as Director of Undergraduate Medical Education. It has been a rewarding responsibility to serve our department in this role through a tumultuous time in UME. I look forward to continuing to help further our education mission in UME and help with the transition to a new Director of UME.

I would like to also congratulate Dr. Eric Monteiro for receiving the Alma Smitheringale Undergraduate Teaching Award this past year. Seeing our academic faculty recognized for their exceptional contributions is very gratifying.

I truly appreciate everyone's continued patience and commitment to our UME mandate through our changing environment.



Residency Program Committee

Dr. Paolo Campisi (Chair)

The 2021-2022 academic year represented another iteration of meeting the extraordinary challenges posed by the COVID-19 pandemic. The required public health restrictions continued to have an impact on all clinical, research, and educational activities within the postgraduate portfolio. The residency program was successful in continuing to adapt through various strategies such as an online/virtual curriculum for core teaching, grand rounds, journal club and other educational activities, the nimble redeployment of residents across teaching sites, adoption of telemedicine, advocacy for resident vaccination and maintenance of surgical training.

These experiences have continued to lead to several innovations in education, collaboration and sharing of resources with other residency training programs and a leadership role in the interest and development of a national residency curriculum.

With the ease of COVID-19 pandemic restrictions in the later part of the year the department was able to host Percy Ireland Day, the departmental graduation ceremony, and the resident retreat in person for the first time since the start of the pandemic. The Royal College examinations proceeded as scheduled but the written and applied components were both administered virtually.

The 2021-2022 academic year represented the fifth year following the introduction of a Competency-Based Education residency curriculum. With this experience, our department continues to provide important feedback to the Royal College Specialty Committee regarding CBME program evaluation.

Dr. Campisi (former Program Director) continued to serve as Chair of the BPEA IT Useability Working Group to further modify existing software to better serve the needs of program directors and assistants.

To effectively support the CBME program, Dr. Eric Monteiro, Assistant Program Director, continues to serve as the Chair of the Competence Committee and continues to champion new initiatives to improve the quantity and quality of resident evaluations, resident feedback and promotion decisions.

This PGME report also celebrates the ongoing outstanding contributions of our residents, fellows, and faculty to the Residency Program Committee (RPC) and Competence Committee. The 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.

A sincere thank you to all the members of the RPC for their invaluable contributions:

Nik Wolter (Hospital for Sick Children)

Janet Chung (Trillium Health Partners)

Brad Hubbard (Michael Garron Hospital)

Eric Monteiro (Sinai Health & Quality Improvement Committee)

Vincent Lin (Sunnybrook Health Sciences Centre & Resident Research Coordinator)

R. Jun Lin (St. Michael's Hospital/Unity Health Toronto)

John de Almeida (University Health Network)

Elysia Grose (PGY1 representative)
 Marc Levin (PGY2 representative)
 Dongho (Brian) Shin (PGY3 representative)
 Hedyeh Ziai (PGY4 representative)
 Jennifer Siu (PGY5 representative & Chief Resident)
 Mirko Manojlovic Kolarski & Dianne Valenzuela
 (Fellow representatives)
 A very special thank you to Andrea Donovan,
 Education Coordinator. She
 expertly managed all aspects of the residency
 program and the RPC. She is an invaluable resource
 to the residents, fellows, and faculty.

Residents

There were 30 residents and 25 clinical and research fellows enrolled in postgraduate training programs within our department. Dr. Jennifer Siu served as the administrative chief resident and represented the interests of the residents diligently. Dr. Siu completed her term on February 28, 2022, and Dr. Amr Hamour was subsequently elected as incoming chief resident. Thank you to Jennifer and Amr for their excellent work on behalf of the residents. Congratulations to Drs. Justin Cottrell, Terence Fu, Daniel Joonil Lee, Shireen Samargandy Jennifer Siu and Neil Verma for completing their residency training. Daniel, Neil, and Shireen have secured fellowship training positions in rhinology. Justin secured a fellowship training position in otology & neurotology and Jennifer in pediatric otolaryngology. Terence initiated his practice in the community.

Resident Selection

The CaRMS selection process was held on Friday, March 11, 2022, using best practice guidelines. The process included file reviews, traditional interviews, and multiple-mini-interviews (MMI). Interviews were once again conducted virtually. The traditional interviews were conducted by Drs. Paolo Campisi, Ian Witterick, Jennifer Siu and Chantal Li. The MMIs were co-administered by faculty-resident teams: Drs. Eric Monteiro, Janet Chung, Marc Levin, Weining Yang; Drs. Yvonne Chan, John de Almeida, Brian Shin and Drs. Vincent Lin, Everton Gooden, Hedyeh Ziai. A virtual social event was organized by

Dr. Chantal Li. 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 Drs. Emily Yiqin Cheng, Nicole Crimi, Hugh Kim and Jacob Wihlidal.

Residency Curriculum

The residency core curriculum continues to be provided over a 3-year cycle to residents in the PGY2-PGY4 years. In the 2021-2022 academic year, the core topics covered were laryngology and pediatric otolaryngology. Drs. R. Jun Lin and Paolo Campisi served as leads for the series of lectures provided. The PGY1 residents attended weekly “Surgical Foundations” lectures throughout the year and a one-week “Prep Camp” in July prior to joining clinical rotations.

The PGY4 residents participated in weekly Fellowship Study lectures provided by faculty in preparation for the Royal College Examinations. Residents in the PGY2-PGY4 years wrote the annual National In-Training Examination in February 2022. 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 Drs. Andres Gantous, Ashlin Alexander and Michael Brandt for organizing the Soft Tissue Dissection and Rhinoplasty courses, Drs. John Lee & Allan Vescan for the Endoscopic Sinus Surgery course and the many faculty & fellows that have contributed to the anatomy course and series of Temporal Bone Dissection courses provided throughout the academic year.

Lastly, a special thank you to Drs. R. Jun Lin, Nik Wolter, 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 25 fellows enrolled in clinical and research training programs in our department for the 2021-2022 academic year.

Research

The PGY2 residents continue to participate in a 4-month research block under the supervision of various faculty members. During the 2021-2022 academic year, the research curriculum was updated by Dr. Alain Dabdoub. Residents participated in a weekly curriculum to reinforce research concepts such as research design, ethics, presentations, and statistical analysis.

Dr. Christopher Noel successfully completed his PhD within the Clinician Investigator Program under the supervision of Drs. Tony Eskander and Natalie Coburn.

Dr. Justin Cottrell continued his Master's degree at the Massachusetts Institute of Technology.

Unfortunately, the Annual Harry Barberian Memorial Dinner was cancelled due to the COVID-19 pandemic.

Research and Teaching Awards

- Dr. Justin Cottrell was recognized by his peers as the *Resident Teacher of the Year*.
- Dr. Mirko Manojlovic Kolarski was recognized by the residents as the *Fellow Teacher of the Year*.
- Dr. Trung Le was recognized by the residents as the *Faculty Teacher of the Year*.
- Dr. Danny Enepekides was recognized with the *Resident Advocacy Award*.

Congratulations to Drs. Justine Philteos and Chris Noel for receiving the *2021 Postgraduate Research Award*.

Transition

As of July 1, 2022 Dr. Eric Monteiro took over as interim postgraduate director from Dr. Paolo Campisi. Dr. Yvonne Chan took over as Vice-Chair in Education also from Dr. Campisi. I would like to thank Dr. Campisi for all of his time and effort over

the past many years developing and nurturing our program into a world renowned training program for otolaryngology residents and subspecialty fellows. It was Dr. Campisi's leadership that transitioned our program as one of the first programs within the University of Toronto to Competence by Design (CBD) based medical education. We are very proud of the legacy he has created, and our program is extremely grateful.



Continuing Professional Development Committee

Dr. Yvonne Chan (Director)

Members: Paolo Campisi, Al Vescan, Ian Witterick.

Our department has established a reputation of delivering world-class continuing education programs under the University of Toronto brand for community and academic otolaryngologists, otolaryngology trainees, as well as other allied health professionals. We are indebted to our entire faculty who volunteer their time and energy to organize the successful courses that are attended by otolaryngologists and health care professionals from around the world.

The CPD content is delivered through weekly grand rounds, visiting professors, named lectureships, interactive as well as hands-on skills courses. Course contents are developed through annual needs assessment and consultation with our residents, fellows, as well as community and academic physicians. We also continued to look for new opportunities to provide leading edge CPD and innovative ways to obtain different categories of maintenance of certification credits especially in this current changing climate.

Our grand rounds include presentations from visiting professors, guest lecturers, community and academic faculty, fellows, and residents. Our chair along with various education directors coordinate the rounds weekly on Friday mornings from 7:30 – 8:30am during the academic year. In the past 2 years, our in-person educational activities and grand rounds halted due to the COVID-19 pandemic that started a Canadian-wide

shut down in March 2020. Our department quickly pivoted to online delivery of our grand rounds, and we have started to have a few in person meetings.

The visiting professors and guest lecturers enhance our overall educational mission by delivering the newest and most up-to-date knowledge and research to our faculty and trainees. Our faculty actively seek out and invite national and international leaders in our specialty to bring their expertise to Toronto (see list below). Through philanthropic donations, our department has established funding for annual named lectureships. These include the *Binstock University of Toronto – Mount Sinai Hospital Lecture in Head & Neck Oncology*, the *Bulhoes Lecture*, the *David Tomlinson Lecture*, the *Elia Lecture*, the *Grimm Lecture*, the *Gullane/O'Neil Lecture*, the *Head & Neck Cancer Foundation Lecture*, the *Joseph K.H. Wong/Smile China Lecture*, the *Krista Riko Lecture*, the *Lance Connery Lectureship in Head & Neck Cancer*, the *Nalli Lecture* and the *Peter and Melanie Munk Lecture*.

Through unrestricted educational grants from industry support, we deliver our courses at a reduced fee in order to reach a broad audience. Many of our CPD courses are held on an annual or bi-annual basis. The University of Toronto Otolaryngology Update is held in February each year sponsored by our community academic faculty. This is the largest gathering of otolaryngologists in the country second to our national Canadian Society of Otolaryngology-Head & Neck Surgery (CSO) meeting by bringing 120-150 of our colleagues for

lectures, panel discussions, and interactive video presentations. We endeavour to invite high quality and diverse speakers from across Canada and the US given its virtual format in February 2022.

In addition, our department faculty is actively engaged in the organization of national and international courses taking place virtually over the last year. The CSO annual meeting was held in September 2021 virtually again with the CSO Scientific Program Chair Dr. Vincent Lin and the CPD Chair Dr. Yvonne Chan leading the programs under CSO President Dr. Ian Witterick's guidance. Along with the virtual CSO, a hybrid sinus course and upper aerodigestive tract courses were held on


the same weekend led by Dr. Yvonne Chan and Dr. Paolo Campisi.

Our department continues to develop a culture of critical reflection on all aspects of learning and teaching to ensure feedback loops are closed and there is dissemination of best practice related to continuing education. I am indebted to our dedicated faculty for their innovation and hard work in providing such excellent CPD programming and I would also like to thank Audrea Martin, our Business Officer, Safia Amin, our Events Coordinator, and Aviva Lev-Aviv who covered for Safia during her parental leave for their continued support of our CPD portfolio.

Courses Organized

DATE(S)	COURSE TITLE (ORGANIZERS)	GUEST FACULTY/INVITED SPEAKERS
February 5, 2022	Otolaryngology Update 2022 (Drs. Paolo Campisi & Yvonne Chan)	Dr. Ali Esmail, University of Manitoba Dr. Amanda Fanous, McGill University Dr. Jason Lee Royal College of Physicians and Surgeons of Canada Specialist, Fellow of the American Academy of Allergy Asthma Immunology (AAAAI), Fellow of the American College of Allergy Asthma and Immunology Dr. Sami Moubayed, University of Montreal Dr. Julia Noel, Stanford University

Invited Professors/Invited Guests

TITLE OF PRESENTATION		
	June 24, 2022 Glen Bandiera, BSc, MD, MEd, FRCPC Professor of Emergency Medicine, Temerty Faculty of Medicine and St. Michael's Hospital Executive Director, Specialty Education, Royal College of Physicians and Surgeons of Canada	From Microscopes to Telescopes – Lenses on Postgraduate Medical Education

*Invited Professors/Invited Guests continued...***TITLE OF PRESENTATION****April 8, 2022****Leen Maes**

Associate Professor, Department of
Rehabilitation Sciences
Faculty of Medicine and Health Sciences,
Ghent University
Scientific Employee, Ear Nose Throat
Department, University hospital Ghent
Visiting Professor, Vesalius College of
Higher Education, Ghent
(*Krista Riko Lecture*)

Impact of a Vestibular Dysfunction on the
Development of Children: The Importance of
Early Detection

**April 1, 2022****Alexander Hillel, MD**

Professor Vice Director Education
Residency Program Director
Department of Otolaryngology - Head &
Neck Surgery Johns Hopkins University
School of Medicine

Laryngotracheal Stenosis: Advances in
Understanding and Management

**February 11, 2022****David A. Sherris, MD**

Professor and Chair
Department of Otolaryngology
Jacobs School of Medicine
University at Buffalo

Nasal Reconstruction: Large and Small

**January 21, 2022****Amanda Veri, PhD**

Lead, Research Training Program
Office of Research Trainees,
University Health Network

Mastering the Art of Communication: Tips for
Engaging & Accessible Research Presentations

*Invited Professors/Invited Guests continued...***TITLE OF PRESENTATION****January 14, 2022****Daniel Hashimoto, MD, MS**

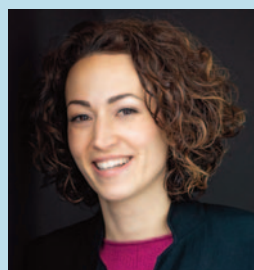
Flexible Endoscopy and Foregut Surgery
Fellow, University Hospitals Cleveland
Medical Center Instructor in Surgery,
Case Western Reserve University

Clinical Considerations for Computer Vision in
Surgery

**December 10, 2021****Sean Christie, MD, FRCSC**

Vice-Chair and Director of Research,
Division of Neurosurgery
Professor, Department of Surgery
(Neurosurgery) Healthy Populations
Institute Flagship Project Co-Lead,
Creating Sustainable Health Systems in a
Climate Crisis Dalhousie University
Past President, Canadian Spine Society

Greener Healthcare: Should Carbon Neutral
Surgery be Our Goal?

**November 19, 2021****M. Elise Graham, MD, FRCSC**

Assistant Professor
Pediatric Otolaryngology-Head and Neck
Surgery
Department of Otolaryngology-Head and
Neck Surgery
Western University

Tethered Oral Tissue – Trends and Truths

**November 5, 2021****Amanda Hu, MD, FRCSC**

Director, Pacific Voice Clinic
Clinical Associate Professor,
Laryngologist
Division of Otolaryngology – Head &
Neck Surgery
Department of Surgery
University of British Columbia

Spasmodic Dysphonia

*Invited Professors/Invited Guests continued...***TITLE OF PRESENTATION****October 22, 2021****Shirley Y. Su, MBBS, FRACS**

Associate Professor
Skull Base Tumor Program
Department of Head and Neck Surgery
and Neurosurgery
The University of Texas MD Anderson
Cancer Center

Induction Chemotherapy in the Management of
Sinonasal Tumors

**October 15, 2021****Leigh Sowerby, MD, MHM, FRCSC**

Associate Professor, Rhinology and
Anterior Skull Base Surgery
Otolaryngology - Head and Neck Surgery
Western University

Management of Rhinitis and the Nuances of
Nasal Corticosteroids



Research Committee

Dr. Alain Dabdoub (Chair)

We are pursuing a diverse and inclusive world-class research enterprise dedicated to discovery, research, education, and leadership to strengthen our research and impact in the field of otolaryngology – head & neck surgery.

Our research continues to thrive as measured by the quality and impact of our publications, presentations by our trainees and faculty in national and international conferences, and collaborations across our hospitals and the world. Our funding levels have significantly increased fueling our innovation and discovery in basic, translations, and clinical research on the world stage. The department continues to put every effort to support trainees and faculty in their research endeavours.

The Departmental Research Committee is comprised of faculty from our core hospitals representing clinical and basic research:

UHN: Mike Daly, Doug Chepeha, David Goldstein

SickKids: Karen Gordon, Robert Harrison, Evan Propst, Nik Wolter

St. Mikes: Jun Lin, John Lee

Mt. Sinai: Eric Monteiro

Sunnybrook: Andrew Dimitrijevic, Antoine Eskander, Trung Le, Vincent Lin

Resident rep: Christopher Noel

Ex-officio: Ian Witterick, Paolo Campisi

funding, we are expecting an increase in depth and breadth in our research enterprise.

Our star continues to rise and shine brighter thanks to our residents, clinical fellows, graduate students, postdoctoral fellows and all the researchers and support staff in our department. With additional



Department Appointments Committee

Dr. Kevin Higgins (Chair)

Members: Jennifer Anderson, Paolo Campisi, Al Chiodo, Alain Dabdoub, Danny Enepekides, Ralph Gilbert, Vicky Papaioannou, Blake Papsin, Ian Witterick [ex-officio].

The DAC are senior members of the department who provide advice to the chair and hospital chiefs regarding all initial status only, clinical adjunct, part-time and full-time appointments, as well as annual reappointments. Two performance reviews of all full-time academic appointments are conducted, first at 18 months then at the end of the probationary period that can be anytime between 3 and 5 years.

The faculty members who served on the committee for the 2021-2022 academic year were:

Kevin Higgins (Chair), Paolo Campisi (HSC and Vice Chair Education), Y. Chan (Chief, SMH), Alain Dabdoub (Vice Chair Research), Danny Enepekides (Chief, Sunnybrook), Ralph Gilbert (Chief, UHN), V. Papaioannou (Head, Division of Audiology), Blake Papsin (Chief, HSC) and Ian Witterick (ex-officio)

During the 2021-2022 academic year both the January 12, 2022 and May 11, 2022 meetings were cancelled.

Approval and Recommendation of New Clinical Adjunct Faculty Appointments

Dr. Christopher Hong, staff at Humber River Hospital requested a faculty appointment. He was approved for a clinical adjunct faculty appointment at the rank of lecturer.

Dr. Josie Xu, NYGH staff specializing in sleep medicine was approved for a new clinical adjunct faculty appointments at the rank of lecturer.

On November 17, 2021 the committee members who are all familiar with both these individuals, unanimously approved the request for clinical adjunct faculty appointments with our department.



Department Promotions Committee

Dr. Karen Gordon (Chair)

Members: Paolo Campisi, Joseph Chen, Alain Dabdoub, Danny Enepekides, Ralph Gilbert, Blake Papsin, Ian Witterick [*ex-officio*].

I began my first term of Chair of the OHNS Promotion committee this year. My goals in this role are to encourage academic progress for faculty in our department and put forward strong candidates for promotion. The following activities over my first year as chair had these goals in mind.

1. Revision of template for Creative Professional Activities (CPA) dossier. I created a new template based on the Decanal Committee review chart for CPA. I sent to Mary Jane Esplen, Chair of the Decanal Committee, for feedback. She was very positive about its usefulness.
2. Individual discussions with several faculty about potential and path to promotion.
3. Faculty development session March 29, 2022 on the topic of promotions and the process involved. Attendance was excellent and included faculty at all appointment levels.
4. Alain Dabdoub was put forward for promotion to Full Professor and the application was approved by the Decanal Committee
5. Departmental Promotions Committee (DPC) Terms of Reference was created.



Budget Advisory Committee

Dr. I. Witterick (Chair)

Members: Paolo Campisi, Yvonne Chan, Alain Dabdoub, Danny Enepekides, Ralph Gilbert, Karen Gordon, Blake Papsin.

The Budget Advisory Committee aids the Chair in appropriately monitoring and structuring the financial affairs of the department, particularly related to academic stipends. We strive to support new full-time faculty members at an enhanced level to create an environment that allows them to be academically productive. Faculty members understand as we continue to have challenges with

our budget. We typically help support our education and research missions through philanthropy including endowed chairs and fund-raising dinners, CPD revenues and we have been frugal with our budget expenditures. With the pandemic, we were unable to hold our usual fund-raising dinners and CPD events so revenues from these areas were down. I want to thank all members of the Budget Advisory Committee for their help and advice. A special note of thanks to Ms. Audrea Martin, our Business Officer, who continues to manage our finances in a commendable way.



Community Academic Faculty

Dr. Janet Chung (Lead)

The Community Academic Faculty continues to play an active and significant 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 Clinical Skills 1 and 2 as well as 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 the Michael Garron Hospital, North York General Hospital, Trillium Health Partners, and William Osler Health System. PGY4 residents have a one-month rotation in facial plastic surgery. In addition to residency training, world renowned fellowships in facial plastic surgery are offered by Drs. Jamil Asaria, Dr. Andres Gantous, Oakley Smith and Dr. Phil Solomon.

A subcommittee of community academic faculty members was created to help members of different geographical regions stay better connected. This subcommittee met biannually this past year and includes members Drs. Peter Adamson, Dupe Oyewumi, Taryn Davids, Manish Shah, Mark Korman, Lukas Kus, Vinay Fernandes, Brad Hubbard, Ambrose Lee, Sumeet Anand and Artur Gevorgyan.

Our community academic faculty is involved in continuing professional development of practicing otolaryngologists. We were involved in the planning and sponsorship of the successful 20th Annual

Otolaryngology Update in February 2022 held virtually this year due to the COVID-19 pandemic. Even given its new format, it was extremely well attended and highly rated by otolaryngologists across Ontario. A community academic faculty journal club reviewing literature in the field of rhinology was held in June 2022 and was well attended.

The *Distinguished Alumnus Award* this year was awarded to Dr. Yvonne Chan.

As our membership 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. I would like to welcome our newest faculty members, Drs. Christopher Hong and Josie Xu.



Advancement Initiatives and Successes

Dr. Patrick Gullane (Lead)

Member: Joseph Chen, Ian Witterick.

Despite the COVID-19-pandemic restrictions and challenges, we have continued to build on enhancing relationships with many generous donors and friends. This was a great year for advancement in the Department of Otolaryngology-Head & Neck Surgery, with a focused approach to donor pipeline development, alumni engagement and promoting the impact of the department in communications.

The donor brochure with a link to our department's website has helped donors and alumni navigate the system and make for a friendlier conduit for donations.

A total of \$2,159,450.00 was pledged to the department, including a transformative gift from the George and Helen Vari Foundation to endow a named chair for the department. This gift was celebrated in a dedicated news story, which was sent to all departmental alumni and amplified across the Temerty Faculty of Medicine channels. This includes Twitter (30,300 followers), Instagram (11,000 followers) and Facebook (7,700 followers) and was a great opportunity to showcase the work and global impact of the department to a broad audience.

Dr. KY Chow and his wife Mrs. Vera Chow made a very generous donation of \$105,000 to establish the "**Ian Witterick Research Award** in perpetuity in otolaryngology-head & neck surgery, awarded at the annual Percy Ireland Research Day-ideally to

support and present the winner's work at a national or international meeting.

In addition to fundraising, the department also partnered with the Office of Advancement on several events, including the department's annual graduation event, the 30th Annual Percy Ireland Dinner and Academic Day, as well as a celebration in honour of Dr. Ian Witterick's exceptional term as department chair.

Finally, we are indebted to the leadership of so many people in the department and beyond which included our chair's untiring efforts, support, guidance and wisdom.

In conclusion, as this is my final year as advancement officer, I want to express my sincere appreciation to the members of the University Advancement Office for their superior leadership, support and stewardship in the interests of our department's fundraising mission.



Quality and Safety Committee

Dr. Danny Enepekides (Chair)

Members: Jennifer Anderson, Yvonne Chan, Douglas Chepeha, Al Chiodo, John de Almeida, Jonathan Irish, Adrian James, Vincent Lin, Eric Monteiro, Manish Shah, Praby Singh, Ian Witterick.

The Quality and Safety committee continued its important work despite the pandemic. I am very appreciative of all the members and their contributions. Although COVID-19 hampered our activities, the team managed to continue supporting our PGY1 residents and their work on quality and safety. This year our residents initiated a project to provide education to our colleagues in emergency medicine on the management of epistaxis.

This year many of our faculty were involved in outstanding work to understand the pandemic's impact on access to care and education. This work resulted in several outstanding publications and maintained a focus on the unintended effects of COVID-19 mitigation strategies.

This year the committee chose to focus on healthcare sustainability. This aligned with the focus of the upcoming Canadian Society of Otolaryngology-Head & Neck Surgery Annual Meeting. Work with next year's cohort of residents will evaluate opportunities to decrease waste during several common otolaryngology procedures.

As work continues, the committee will focus on assisting each of our divisions to move forward subspecialty specific quality and safety initiatives,

assist our PGY1 residents with their quality foundations project, develop curriculum for our postgraduate program, and develop content for departmental grand rounds.

I am extremely proud of the work this important committee carries out and look forward to its continued success.





Departmental Division Reports



Division of Audiology

Ms. Vicky Papaioannou (Head)

The Audiology Division is composed of a group of audiologists dedicated to research, undergraduate and postgraduate education, as well as continuing medical education within the department. Members of the division under the leadership of Susan Druker provided audiology teaching as part of the otolaryngology curriculum for undergraduate medical students. The core lecture series for the otolaryngology residents took place in September again this year.

Kids2Hear, a primary preventative health initiative whereby medical students from the University of Toronto provide school-based hearing and otoscopy screening for elementary school children was cancelled this year due to COVID-19 restrictions. The Krista Riko lecture occurred virtually again this year. Leen Maes, Associate Professor in the Department of Rehabilitation Sciences at Ghent University in Belgium discussed the impact of vestibular dysfunction on a child's development as well as the importance of early detection.

Division membership grew this year with the addition of several audiologists from Sunnybrook Health Sciences and University Health Network.

The Audiology Division members for the 2021-22 academic year were:

Hospital for Sick Children

Lora Carinci
Susan Druker
Karen Gordon
Gina Goulding
Melissa Hazen
Laurie MacDonald
Vicky Papaioannou (Chair)

Humber Regional Hospital

Jill Witte

Sunnybrook Health Science Centre

Julija Adamonis
Jessica Banh
Johane Rakotoarimanana
Maria Simone
Kari Smilsky
Ian Syrett
Erica Wong

University Health Network

Dario Coletta
Carolyn Falls
Emma Leblanc
Laurel Palmer
Curtis Wetmore



Division of Facial Plastic and Reconstructive Surgery

Dr. Andres Gantous (Head)

I am pleased to present the annual report on the activities of the Division of Facial Plastic and Reconstructive Surgery for the 2021-2022 academic year. Even though the worst of the pandemic seems to be behind us, it was still a challenging year for all due to limited OR time and hospital resources yet, and ever longer waiting lists. We have been able to continue providing care to our patients and training to our students, residents and fellows.

Our division is comprised of the following individuals: Dr. Peter A. Adamson, Dr. David A. F. Ellis (both retired from clinical practice, Dr Adamson is still very much involved in teaching), and Dr. Ralph Gilbert are full professors. Dr. Kryzstof Conrad, Dr. Danny Enepekides, Dr. Andres Gantous, Dr. David Goldstein and Dr. Kevin Higgins are associate professors. Dr. Michael Brandt, Dr. Robert Mounsey, Dr. Oakley Smith and Dr. Philip Solomon are assistant professors. Dr. Ashlin Alexander, Dr. Jamil Asaria, Dr. Matthew Brace and Dr. Richard Rival are lecturers.

I am very grateful to all the members of the division for their unflagging dedication to our teaching commitments, support and contributions to the division this past year. Our own office personnel have worked tremendously hard during these very challenging times. The continuing help, support and work of the departmental administrative staff is invaluable to our success. The leadership and support of Dr. Witterick, our recently retired chairman and Dr. Campisi, our past program director is invaluable.

The transition to the new leadership team of Dr. Enepekides and Dr. Lin has been seamless.

POSTGRADUATE MEDICAL EDUCATION TEACHING Workshops

The Soft Tissue Dissection course was held on November 2021. The course was co-directed by Drs. Brandt and Alexander. This was, as always, very popular with the residents.

The Rhinoplasty Dissection course took place in April 2022 and was a success.

Fellowships

Currently the division recognizes four fellowship programs in FPRS. Dr. Asaria and Dr. Smith both had an AAFPRS fellow. Drs. Solomon and Rival, and Dr. Gantous had one University of Toronto accredited clinical fellow. Dr. Gantous' fellowship has been submitted for accreditation by the International Board of Facial Plastic and Reconstructive Surgery and is expected to be approved promptly.

PGY4-5 rotations

With the cooperation of the members of our division we were able to host the one-month mandatory rotations in facial plastic and reconstructive surgery. Several faculty members also hosted elective rotations arranged by our University of Toronto residents as well as from other Canadian OHNS programs.

Out of Specialty PGME teaching

Dr. Gantous took over the role from Dr. Adamson and continues to present an overview of facial plastic surgery to the Faculty of Dentistry students on alternate years. Dr. Brandt has also become part of that lecture series. Dr. Asaria has also been engaged in teaching dermatology residents. Dr. Alexander has lectured to the plastic surgery residents.

Continuing Medical Education (CME) Courses

Numerous members of the division are frequent presenters at meetings such as the Canadian Academy of Facial Plastic and Reconstructive Surgery Annual Clinical Day, Canadian Society of Otolaryngology – Head & Neck Surgery Annual Meeting, American Academy of Otolaryngology – Head and Neck Surgery Annual Meeting, American Academy of Facial Plastic and Reconstructive Surgery Annual Meeting, as well as other international and national meetings. It has been heartening to move away from Zoom meetings to regular in-person meetings once again.

Association Activities

Dr. Adamson continues as a senior advisor to the American Board of Facial Plastic and Reconstructive Surgery (ABFPRS) as well as a board examiner. Drs. Alexander and Asaria contribute oral protocols and written items for the ABFPRS examination. Dr. Adamson continues as past president of the AAFPRS. Dr. Gantous is the Canadian Region Credential Committee representative, AAFPRS. Dr. Gantous was nominated as President-Elect of the AAFPRS, voting will occur during the fall meeting of the AAFPRS in October 2022. Dr. Adamson is a member of the Rhinoplasty Committee and the Ethics Committee, AAFPRS. Dr. Adamson still serves as President of the International Board for Certification in Facial Plastic and Reconstructive Surgery (IBCFPRS) and is a board examiner. He is also a board examiner for the European Board for Certification in Facial Plastic and Reconstructive Surgery (EBCFPRS). Dr. Gantous serves as Secretary, International Board of Facial Plastic and Reconstructive Surgery Societies (IFFPSS). Dr. Brandt is Section of Otolaryngology Delegate to the

OMA, Ontario representative to the CSO-HNS and the CAFPRS. Dr. Rival has continued to serve as the President of the CAFPRS.

Many members of the division are peer reviewers for a number of national and international journals in facial plastic surgery, and Dr. Adamson sat on the International Advisory Board of the Journal of the American Medical Association for Facial Plastic and Reconstructive Surgery (JAMA FPRS). Dr. Asaria is now on the International Editorial Board of Facial Plastic Surgery & Aesthetic Medicine (FPSAM). Dr. Gantous is a reviewer for Facial Plastic Surgery.

PUBLICATIONS

Several members of the division have remained active writing and publishing their work during this period. Peer reviewed and requested articles as well as book chapters have been undertaken by many of our division members.

In summary, the Division of Facial Plastic and Reconstructive Surgery is committed to continue supporting and advancing the values, mission and goals of our department. Our members remain engaged and eager to advance, be leaders in and teach our subspecialty nationally and internationally.



Division of Head & Neck Oncology and Reconstructive Surgery

Dr. Jonathan Irish (Head)

Members: Dale Brown, Douglas Chepeha, John de Almeida, Danny Enepekides, Antoine (Tony) Eskander, Jeremy Freeman, Ralph Gilbert, David Goldstein, Patrick Gullane, Kevin Higgins, Eric Monteiro, Al Vescan, Ian Witterick.

By any measure, the three head and neck centres under the University of Toronto umbrella have an academic productivity, lead in research initiatives, and provide a fellowship education program that continues to position the division as the pre-eminent program in Canada and one of the most recognized programs internationally.

The Princess Margaret Cancer Centre at the University Health Network is the largest regional program in Canada with seven full-time head and neck surgical oncologists. Dr. Christopher Yao joined the University Health Network faculty in January 2022 from Fox Chase Cancer Center and having done his fellowship training at the MD Anderson Cancer Center joining Drs. Dale Brown, John de Almeida, Ralph Gilbert, David Goldstein, Patrick Gullane, and Jonathan Irish. This program continues to be strongly supported by the Princess Margaret Cancer Foundation with key donations from the Joe Findlay Fund, the Wharton Family, Kevin and Sandra Sullivan, Neville Thomas as well as the Galloway, Elia, Shen, Garron, Epstein, Stroebele, Austin and Dorrance families. The Norman and Marian Robertson Charitable Head and Neck Surgical Clinical Trials Program Fund is dedicated to the support of in-house surgical clinical trials led out of the Princess Margaret and trials in surgical innovation.

Dr. Joel Davies has joined the faculty at the Mount Sinai Hospital/Sinai Health System having done his fellowship at the Medical University of South Carolina and has joined an already strong faculty with Drs. Witterick, Vescan and Monteiro. Dr. Jeremy Freeman has retired from operating but leaves a strong legacy in endocrine oncological surgery including outpatient ultrasound and ultrasound-directed interventions. Dr. Freeman continues to practice in the ambulatory care setting.

The Sunnybrook/Odette Site offers tertiary/quaternary head and neck oncology services including endocrine and microvascular surgery. Drs. Enepekides, Higgins and Eskander provide head and neck services at the Sunnybrook site and have strong networking programs with the Michael Garron Hospital and Women's College Hospital. The Nanji family gift of \$3 million dollars to revitalize the ambulatory clinic areas of both the Sunnybrook HSC and Odette Cancer Centre head and neck sites has allowed dramatic expansion of ambulatory ultrasound for diagnostic and therapeutic procedures.

Research

The research productivity will be detailed in the departmental report but some of the major initiatives will be summarized here.

The division is organized into the following research programs: 1) Outcomes Research (lead-David Goldstein) 2) Clinical Trials (lead-John de Almeida) 3) Health Services Research (lead-Tony Eskander) 4) Quality and Safety (lead-Eric Monteiro) and 5)

Guided Therapeutics (lead-Jonathan Irish). From October 2020 to June 2021 the division under the leadership of Dr. de Almeida and the respective program leads have had monthly meetings to develop a research strategic plan which will help guide the divisional collaborative research program over the next five years. The three main projects that have initially been targeted for divisional research collaboration are:

1. Predictors of functional outcome-Lead: K Higgins
2. Optimization of early recovery after surgery (ERAS)-Leads: J de Almeida, D Goldstein
3. Assessment and standardization of margins after oral cancer resection-Lead: K Higgins

The academic productivity in outcomes research speaks volumes regarding the research productivity in this area. Most of these projects are mentor-led and are within a single institution. An example of UHN-based work led by Dr. Goldstein is “Cognitive Impairment and Delirium in Older Patients Undergoing Major Head and Neck Surgery” and Sunnybrook-led work is “Surgical Tray Optimization as a Simple Means of Reducing Perioperative Costs: A Quality Improvement Initiative.”

The clinical trials program of the division is very active. David Goldstein continues to co-lead the major trial on active surveillance in early stage papillary thyroid cancer with CIHR grant support. This trial has now recruited over 200 patients and has moved to multiple sites in Canada. This trial has had significant impact on practice in thyroid oncology and when this study is completed will likely be a practice-changer and continues to generate a significant number of publications such as “A Quantitative Analysis Examining Patients' Choice of Active Surveillance or Surgery for Managing Low-Risk Papillary Thyroid Cancer”.

Dr. Danny Enepekides is a co-investigator on the Business Lead Networks of Centres of Excellence (BL-NCE) Grant which is dedicated to creating an informational and imaging integrated operating

room for the next generation of surgery which has a total project value of \$1.5M.

As the lead of the clinical trials program of the division Dr. John de Almeida has definitely led by example. Dr. John de Almeida's leadership in clinical trials and outcomes research has been recognized by his appointment to the NRG Oncology Head and Neck Core Committee responsible for oversight of cooperative group trials design. Dr. de Almeida continues to lead clinical trials particularly in robotic research including the FIND trial-a study to evaluate the use of Transoral Robotic Surgery (TORS) to identify small oropharyngeal carcinomas allowing tailored radiotherapy in unknown primary and small squamous cell oropharyngeal cancers. Findings from this study will be used to better determine which patients may be suitable for more targeted radiotherapy that would lead to a reduction in the total amount of radiotherapy needed as part of their treatment. He leads the University of Toronto participation in ORATOR-2 which is a randomized treatment de-escalation study to formally compare outcomes in HPV-related oropharyngeal cancer tumours treated with a primary radiotherapy versus a primary surgical approach. Finally, Dr. de Almeida is the principal investigator of the SELECT Trial (HN.11) approved by the CCTG and EORTC and has received \$3.2M in CIHR funding to compare the effectiveness of two types of radiation treatments for oropharyngeal carcinoma (OPC) to evaluate if lymphatic mapping with Single Photon Emission Computed Tomography (SPECT-CT) imaging can help select patients for ipsilateral versus bilateral radiation and has the opportunity of reducing the volume of radiation for OPC patients. This is the first Canadian Cancer Trials Group (CCTG) in head and neck to receive NCI approval and the trial can now be open through other cooperative groups in addition to CCTG including NRG/ECOG. Dr. de Almeida also received funding support from NCI US/CETP (\$2.994 M USD) and from the EORTC (\$169K) for SELECT Trial funding. This is another example of a study that was originally supported by departmental funds like the Barberian Scholarship and Ng/Chui Innovation Fund and also local hospital funds that provide “start-up” support for

clinical innovation that can ultimately move to national and international trials.

The safety and quality program has been led by Dr. Eric Monteiro. Many of the initiatives have been integrated across the division and has served as an important platform for collaboration. This group has also been involved in the development of local workshops (margin assessment and evaluation in oral cancer), provincial initiatives (development of quality metrics in Quality Based Procedure Funding in thyroid surgery [Monteiro, Irish] and mucosal head and neck cancer [Eskander, Higgins, Irish]) and national and international workshops and symposia (Canadian Society of Oto-Head & Neck Surgery, American Academy of Otolaryngology-Head and Neck Surgery). Dr. Monteiro is course director in the certificate course in quality improvement and patient safety at the Centre for Quality Improvement and Patient Safety at the University of Toronto and is core faculty for the EQUIP certificate course.

Dr. Danny Enepekides chairs the Quality and Safety Committee of the department and many of the departmental initiatives also overlap with division initiatives including the development of a standardized reporting format for morbidity and mortality rounds using the OM3 model and initiatives to reduce postoperative opioid ordering for operative procedures. Dr. Enepekides delivered the Annual Herbert S. Birkett Memorial Lecture at McGill University validating leadership in quality improvement.

The health services research program has been led by Dr. Tony Eskander. Dr. Eskander is a faculty member at ICES and on the teaching faculty of the Dalla Lana School of Public Health, Institute of Health Policy, Management and Evaluation (IPMHE). Dr. Eskander is Course Co-Director and Tutorial Leader in the Health Services Research (HAD 5306) and Lecturer for Introduction to Clinical Epidemiology (HAD5301) & Advanced Methods in Health Services Research (HAD5763) in the IHPME at the University of Toronto.

This year has been an exemplary year for grant acquisition by Dr. Eskander as Principal Investigator

and have included “Patient Reported Symptom Burden as a Predictor of Emergency Department Use and Unplanned Hospitalization: A Multi-Methods Approach to Improving Head and Neck Cancer Care in Ontario” from the Canadian Cancer Society (CCS) Challenge Grant. (\$439,095 CAD) and “An Evaluation of Patterns of Care, Survival and Healthcare Costs in Patients with Head and Neck Cancer” which was a Terry Fox New Investigator Award and CIHR Operating Grant for \$442,614 CAD.

Drs. Christopher Yao and Joel Davies are the newest members of the head and neck oncology group. Dr. Yao is enrolled in the Master of Applied Science Candidate in the Department of Mechanical and Industrial Engineering at the University of Toronto and is looking specifically at applying artificial intelligence to data analytics for guidance in clinical decision-making. Dr. Yao aims to incorporate machine learning algorithms to improve prediction of patient outcomes and optimize surgical and oncologic outcomes. Secondly, Dr. Yao plans to integrate a higher order of interpretation of video and radiographic digital information to enhance our clinical and surgical decision making. Dr. Joel Davies is currently enrolled in a Masters in Health Services Research with an emphasis in Artificial Intelligence through the Institute for Health Policy Management and Evaluation at the University of Toronto. He will be using data through the Institute for Clinical Evaluative Sciences to complete an artificial intelligence based project focused on predicting clinical outcomes using machine learning. He is also continuing to complete projects evaluating virtual surgical planning in head and neck reconstruction. The additions of both of these young faculty will continue to invigorate our clinical, research and education programs.

Finally, the Guided Therapeutics (GTx) Research Program, part of UHN’s TECHNA Institute, continues to lead and support research, run translational clinical trials and development new technologies and interventions in head and neck, skull base, thoracic and sarcoma cancer surgery. This program is led by Dr. Jonathan Irish who is the Director, Clinical Faculty at TECHNA and the

program lead for the GTx Program. This research is completed by a multidisciplinary team of surgeons, radiation physicists, engineers, programmers, chemists, cancer biologists, and imaging specialists, using the key GTx infrastructure consisting of the GTx Operating Room (GTx-OR at the Toronto General Hospital) and the GTx-Lab (at Princess Margaret Cancer Research Tower). The GTx Program focused on translational research and development of a broad range of new and continuing research projects with Dr. Irish as the PI or Co-PI on all of these newly acquired grants:

- First-in-Human Porphysome Nanotechnology for Precision Tumour Ablation and Surgical Guidance, OICR Clinical Acceleration Team Awards. Ontario Institute for Cancer Research. \$1,130,803 CAD
- First-in-Human Porphysome Nanotechnology for Precision Tumour Ablation and Surgical Guidance. The Agnico Eagle Beyond Chemotherapy Grand Challenge. \$500,000 CAD.
- Nanoparticle Enabled Photodynamic Therapy and Fluorescence Guided Surgery for Treatment of Oral Cavity Cancer. Canadian Cancer Society Challenge Grant. \$401,700 (CAD)

Education

The division directs the American Head and Neck Society Advanced Training Fellowship. Dr. Jeremy Freeman has stepped down as the fellowship director after decades of leadership establishing the University of Toronto as a go-to centre for international oncological training. Dr. Freeman should be congratulated for his exemplary leadership and commitment. Dr. Jonathan Irish will serve as the interim fellowship director with Dr. Kevin Higgins serving as co-director as the program goes through the Advanced Training Council review process and as the program applies for Canadian Association of Head and Neck Surgery accreditation with the intent that there will be a permanent fellowship director when these processes are complete. Drs. Irish and Higgins are responsible for oversight of the

fellowship program including organizing the AHNS Fellowship match participation and interviews as well as organizing the fellowship interview process for non-AHNS match applicants from international medical graduates and oversee the fellowship rotations and assessments. The education program is overseen by Drs. Higgins and Irish in collaboration with the Chief Fellow.

This highly sought-after fellowship program with six clinical rotations and one research position draws applicants from around the world. There will be a reduction to four clinical rotations in the 2024 academic year. The program continues to be committed to the development and training the future leaders of our sub-specialty. One of the major initiatives led by Drs. Higgins and Irish is to renew the fellowship education curriculum. This process has incorporated initiatives from the American Head and Neck Society and Canadian Association of Head and Neck Surgical Oncology. In a typical academic year there are nine fellowship rounds which cover topics dictated by the AHNS Curriculum with 3-4 special topic lectures given by external experts in the field. For three of the rounds per year the division invites previous fellows to act as alumni mentors who may have specialized topic expertise as we continue to strengthen our alumni program. The division continues to attract pre-eminent visiting professors from all over the world for departmental and hospital-sponsored lectures which are presented elsewhere in this report.

A special mention to Dr. Kevin Higgins for acquiring \$75,000 Temerty Foundation Grant funding to establish a Microvascular Training Model which will further augment fellowship. Dr. John de Almeida coordinates the head and neck section of the residency curriculum program and essentially all of the faculty participate in the lecture series.

Leadership

The faculty has provided strong hospital, university, provincial, national and international leadership in otolaryngology and head and neck surgical oncology. Since 2018, Dr. David Goldstein has been the site lead for the Endocrine Site Group at the

Princess Margaret. Dr. David Goldstein was appointed as the Wharton Chair in Head and Neck. This is an incredible milestone in Dr. Goldstein's career and a well-deserved recognition of a track record of dedicated head and neck outcomes and clinical trial research. At the provincial level, Dr. Irish has stepped down as the Provincial Head for Surgical Oncology at Cancer Care Ontario-Ontario Health and was appointed Vice-President Clinical for Cancer Care Ontario-Ontario Health and in that capacity is responsible for all of cancer services in the province.

Dr. Ian Witterick is the Chief of Otolaryngology-Head & Neck Surgery at the Sinai Health System incorporating the Mount Sinai Hospital and completed his term as professor and chair of the university department and should be congratulated for his outstanding leadership over his 10-year term.

Dr. Danny Enepekides is the Chief of Otolaryngology-Head & Neck Surgery at Sunnybrook Health Sciences Centre, the Chief of Surgical Oncology and the Regional Lead for Surgical Oncology in Toronto Central North for Cancer Care Ontario-Ontario Health. Dr. Enepekides was appointed as The George and Helen Vari Chair in Otolaryngology-Head & Neck Surgery Department of Otolaryngology-Head & Neck Surgery taking over for Dr. Witterick.

Dr. Kevin Higgins is the Departmental Appointments Committee Chair for the Department of Otolaryngology-Head & Neck Surgery and a member of the Council of Academic Hospital of Ontario Physician Quality Improvement Initiative.

Drs. Tony Eskander and John de Almeida were inducted as Fellows into the Triological Society and Dr. Eskander was awarded the Maureen Hannley Award for excellence in health services research from the Triological Society for his thesis.

Many of the faculty of the department play significant leadership roles in developing quality improvement initiatives and driving improvements in access to care and access to quality care at the provincial level serving on many Cancer Care

Ontario-Ontario Health Working Groups, Expert Panels and Committees. Some of the notable leadership commitments include Dr. Kevin Higgins (CCO head and neck site group, CCO skin site group), Dr. Tony Eskander (Head and Neck Quality Based Procedures [QBP] Working Group), Dr. John de Almeida (Head and Neck QBP Working Group) and Dr. Eric Monteiro (Endocrine QBP Working Group).

The national and international impact of the division faculty is an enormous one. The division members continue to be highly sought after as keynote speakers at many national and international conferences and meetings which are describes in the overall departmental report. Many members of the division have national and international leadership positions some of which are documented here.

Dr. Ian Witterick is Past-President of the Canadian Society of Otolaryngology-Head and Neck Surgery (CSO-HNS). In AHNS leadership, Dr. Ian Witterick is Section Chair for Skull Base and Dr. Danny Enepekides is Section Chair for Salivary Gland. Dr. Irish sits on the National Board of the Canadian Cancer Society and the Board of the Ontario Institute for Cancer Research. The establishment of the Canadian Association of Head and Neck Surgical Oncology (CAHNSO) has provided further opportunities for leadership for members of the division. Dr. Kevin Higgins is Executive Committee Member, Canadian Association of Head and Neck Surgery and also is the Ontario Regional Representative and Executive Member at the Canadian Society of Otolaryngology-Head and Neck Surgery. Dr. David Goldstein is Treasurer of CAHNSO. In addition, Dr. Tony Eskander has organized and now chairs the Collaborative Research Initiative at CAHNSO with strong participation and support particularly from Drs. Goldstein and de Almeida. This initiative has developed into a strong collaborative force for head and neck oncology research in the country.



Division of Rhinology

Dr. John Lee (Head)

Members: Drs. John Lee, Ian Witterick Allan Vescan, Yvonne Chan, Dustin Dalgorf, Rick Fox, Jack Kolenda, Saf Banglawala, Eric Monteiro, Jeffrey Werger, Artur Gevorgyan, Randy Leung, Nik Wolter

This past year marked the 5th year anniversary of our Division of Rhinology. I have been fortunate to lead this amazing group of collegial academic and community-based rhinologists throughout the greater Toronto area. To mark the occasion, I had the privilege of generating a 5-year report and presenting to a departmental review committee on December 9th, 2021, on all the educational, leadership and research highlights from our faculty members during my tenure as the inaugural division head. The review went extraordinarily well, and I am honoured to have been renewed another 5-year term leading this group of talented individuals. While the time has flown by, it has not been an easy period for our division given the significant clinical and research restrictions that were placed by the COVID-19 pandemic. Through it all, our members have remained steadfast in their commitment to the academic mission of our department, and I am excited to share with you some of the highlights from this past year.

Education Activities

The major educational event for this past year was again our highly anticipated Resident Sinus Surgery course which was held on March 26th, 2022. Adapting again to the social distancing restrictions in the surgical skills lab, we held a morning and afternoon program for two separate cohorts of

residents. This ensured that each trainee had their own dissection station and were given one-on-one instruction from one of our rhinology faculty. A special thank you to Drs. Banglawala, Chan, Dalgorf, Gevorgyan, Lee, Monteiro, Vescan, Wolter and Witterick for sacrificing their own personal time to teach our trainees. The resident evaluations from this course were exceptional and again highlights how valuable this teaching experience is for our residents.

As head of the division, I was also asked to give departmental grand rounds this past year on April 29, 2022. During this lecture, I was able to specifically highlight the many impactful contributions our faculty members have had during these past 5 years. Our academic productivity has continued to grow year after year. From serving on national/international committees or journal editorial boards, giving scientific/invited presentations, or publishing highly referenced manuscripts in our field, there was much to be celebrated in our division.

Academic Activities

This year marked the return of many in-person/hybrid scientific meetings and our members continued to make significant contributions. At the 2021 Canadian Society of Otolaryngology-Head & Neck Surgery Annual Meeting (virtual), 2 scientific oral presentations were given by trainees and supervised by 3 of our faculty members (Drs. Lee, Chan, Yip). At the American Rhinology Society Annual Fall Meeting in Los Angeles, CA, Drs. Jong Wook Lee and Amr Hamour (PGY4 residents) were

chosen to give a scientific oral presentation on their chronic rhinosinusitis mouse model (supervised by Drs. Lee, Monteiro, Vescan). For our departmental resident research day on May 6th, 2022 (Percy Ireland Day), a total of 3 projects representing our division was presented, with two of the projects winning awards in their respective categories. In addition, Dr. Chan was a faculty on several panels at the American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting (virtual) and gave a number of talks at the Sin City Sinus Course. Finally, several manuscripts were published this past academic year on topics ranging from barriers for patients to access complex upper airway care, the impact of CRS on overall quality of life in patients with cystic fibrosis and the risks of hypothalamic-pituitary-adrenal axis suppression with the use of intranasal corticosteroids.

Our local multi-institutional study on the impact of sinus surgery on olfaction was unfortunately halted because of COVID-19 restrictions. Fortunately, we have begun to start recruitment again at St. Michael's Hospital and are hoping to activate additional sites this upcoming academic year.

Finally, it is with great pride that we report the departure of one of our division members Dr. Jonathan Yip who has been recruited to the University of Calgary as an academic rhinologist. Jonathan was a graduate of our training program and even in his few years as staff here in Toronto, he has always been generous with his time teaching and mentoring our residents. I have no doubt that he will excel in his new position and continue to make meaningful contributions to our field.



The background is a solid dark blue color. Overlaid on this is a grid of lighter blue lines that form a perspective of a curved surface, possibly a dome or a large screen, receding into the distance. The grid lines are more pronounced in the lower half of the image and fade towards the top.

Hospital Reports



Hospital for Sick Children

Dr. Blake Papsin (Otolaryngologist-in-Chief)

As we emerge from the pandemic and enter endemicity with COVID-19 the Department of Otolaryngology-HNS at SickKids has been required to make several significant adjustments in order to continue to deliver care, educate our trainees, and conduct research. Our clinical volumes both for consultations and surgical volumes have shifted continuously and we have had to remain flexible to allow for on the fly adjustments to our practices. This has been a considerable source of stress on all members of our team and at the outset of this report I want to praise and thank our entire hospital department for their dedication and resiliency.

The pandemic has had a large effect on pediatric care especially since schools have gradually re-opened and the social restrictions diminished. We now contend with the fact that a proportion of our work force, scheduled patients and caregivers will be unable to proceed with scheduled care at any given time. We have embraced virtual care wherever possible and have sought to focus all in-person visits so that we can accomplish multiple assessments on a single visit (i.e., audiology, speech pathology, research, otolaryngology). We have almost restored our clinical volumes with this embrace of virtual care in conjunction with our enhanced in-person approach. Unfortunately, our surgical volumes are not as easily maintained or restored as we face the same severe human resource deficits as all other Ontario hospitals. Our waitlists for surgical care in children have risen and are amongst the highest rates

of increase within our hospital's surgical group. The hospital has augmented access to resource with weekend operative lists but have not yet established this as a sustained approach which can effectively reduce or reverse our waitlist trends. Again, the reliance on a fixed number of nurses and ancillary healthcare providers prohibits our expanding operative resource significantly.

Our campus redevelopment, named Project Horizon, is progressing well. The Patient Support Centre is almost completed, and many services are moving personnel into this facility soon. The interim state will see most physicians and administrative staff re-locate to this building as two wings of the existing hospital are demolished. Otolaryngology-HNS and Communication Disorders will remain in our current location as will our in-patient ward. We feel very fortunate not to have to re-locate at this point yet will undoubtedly be affected by disruption as the whole organization re-imagines our campus for use over the next half century.

Our research team is also adapting to the post-pandemic normal. Efforts are being made to conduct research when patients are in our building for clinical care and novel virtual and out-reach projects have been developed. Dr. Karen Gordon has

FACULTY

Paolo Campisi,
Sharon Cushing,
Karen Gordon,
Robert Harrison,
Adrian James,
Vicky Papaioannou,
Evan Propst,
Nik Wolter,
Theresa Holler (P/T).

overcome logistical obstacles to recruit students and maintain productivity in the laboratory. Our research team has been active in presenting at both in-person and virtual meetings. Melissa Hazen, one of our current PhD candidates, continues on the clinician/scientist track with a focus on vestibular science.

Our administrative team has also restructured to provide care in these challenging times. Flexible work scheduling and remote care have become part of our strategy as we aim to deliver timely care. Central to our success have been the efforts of Vicky Papaioannou who continues to improve our administrative productivity. The consultant staff have continued to execute their academic and clinical activities successfully using remote presentations to contribute to academic meetings and professional societies. We have trained 18 residents, 2 fellows over the past year and successfully matched fellows for our upcoming year virtually.

Two new and exciting opportunities have arisen after great effort from our team in conjunction with the executive of our hospital. We have been approved to move forward with recruitment of a nurse practitioner whose work will focus on caring for children with aerodigestive disease and especially those with tracheotomy. Even more exciting is the prospect that the Ministry of Health will formally approve the now provisionally approved addition of a new full-time consultant paediatric otolaryngologist for 2023!

The Department of Otolaryngology-HNS 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.



Michael Garron Hospital

Dr. Bradley Hubbard (Interim Otolaryngologist-in-Chief)

Hospital/Patient Programs

This year has been very eventful for our hospital and department.

Dr. Chiodo has taken a one-year sabbatical in North Carolina, and we have two locum surgeons Drs. Yelda Jozaghi and Josie Xu who are helping to manage patients in his absence. Dr. Xu has a fellowship in sleep medicine, and Dr. Jozaghi has a fellowship in head & neck oncology.

Our department continues to provide both inpatient and outpatient surgical services spanning the subspecialties of pediatric, otologic, sinonasal, facial plastic, and head and neck endocrine surgery. Despite the challenges of the recent pandemic and ongoing human resource issues at the hospital we have been successful in maintaining nearly 5000 hospital clinic encounters together with approximately 400 visits to the Thyroid Diagnostic Clinic. We were able to perform over 1000 surgical procedures including over 200 thyroid cases.

I'm also pleased to report that we were successful in obtaining a new operative microscope which will greatly benefit our otologic cases and our laryngeal cancer procedures. This new microscope also has video recording capabilities and a large monitor which will benefit our learners and research significantly.

As supply chain issues and OR reductions improve, we look forward to increasing both our surgical volumes and outpatient visits. We are eagerly awaiting our move to the new Ken and Marilyn Thomson Patient Care Centre for our outpatient clinics. This new state-of-the-art facility will be the new home for our outpatient

Otolaryngology clinics and will have additional clinic space and minor-procedure resources. Our inpatient surgical beds will also move into the new building as well. We are currently anticipating occupancy in January 2023.

EDUCATION

Undergraduate Medical Education

Our department continues to have a key role in undergraduate medical education within the university department. In my role as assistant undergraduate director, we provide lectures and assist in curriculum development at the Temerty Faculty of Medicine. Our department also continues to host clerks for their clinical rotations throughout the year, and the transition to residency course.

FACULTY

William El Masri,
Danny Enepekides (P/T),
Tony Eskander,
David Goldfarb (P/T),
Everton Gooden (P/T),
Kevin Higgins (P/T),
Bradley Hubbard,
Thileep Kandasamy (P/T),
Manish Shah (P/T),
Oakley Smith,
Jason Xu (P/T).

Postgraduate Medical Education

We remain consistently one of the top-rated rotations by residents, with excellent rotation effectiveness scores. Residents continue to have high surgical volumes as primary surgeons in pediatric, sinus, otologic, endocrine and facial plastic procedures. We also have a number of family medicine residents who rotate through our department clinics each year.

FELLOWSHIP AND CONTINUING MEDICAL EDUCATION

Our department continues to remain actively involved in continuing medical education with our hospital's Department of Family Medicine's continuing professional development activities, including the resident lecture series. Dr. Oakley Smith continues as a fellowship supervisor for the American Academy of Facial Plastic and Reconstructive Surgery.

RESEARCH INITIATIVES

Our department continues to be involved with research projects both at our hospital and with the university. Recently we have undertaken studies regarding PTH optimization post thyroidectomy, surgical tray optimization, and outpatient thyroidectomy, led by Dr. Eskander. We have also joined a multi-centre research project with the Hospital for Sick Children being led by Dr. Nik Wolter to examine the effect of parental mood on post-operative analgesia used on children post tonsillectomy.



North York General Hospital

Dr. Everton Gooden (Otolaryngologist-in-Chief)

North York General Hospital (NYGH) is one of Canada's leading community academic hospitals and offers a wide range of acute care, ambulatory and long-term care services.

Newsweek Ranks NYGH as one of the top 5 hospitals overall in Canada and the #1 community hospital in Canada.

We are in the early stages of a multi-year capital redevelopment project to expand and modernize the hospital. Plans are underway to build a state-of-the-art long-term care facility in addition to building a new patient care tower.

Drs. Everton Gooden, Manish Shah, Thileep Kandasamy, Jason Xu and Josie Xu comprise the medical staff in our ambulatory clinic and at NYGH.

Dr. Josie Xu is our newest member bringing much needed expertise in sleep-related surgery. Six full-time audiologists under the direction of Dr. Gina Oh provide adult and pediatric audiology services.

Leadership

Dr. Gooden continues as a director of the Foundation Board of Governors and Chairs the Governance and Inclusion Committee for the Board.

Dr. Manish Shah is a member of the Medical Staff Executive and serves as Secretary Treasurer. Dr. Shah

also serves as our education coordinator and is a member of the Department of Otolaryngology Quality and Safety Committee.

Education

Our division continues to support electives students in the final year of the family medicine resident program in addition to supporting regular otolaryngology residents rotations. We also participate in undergraduate medical education and our teaching scores continue to rank amongst the best in the university.

FACULTY

Thileep Kandasamy,
Manish Shah,
Jason Xu.



Sinai Health

Dr. Ian Witterick (Otolaryngologist-in-Chief)

Mount Sinai Hospital (MSH), Joseph and Wolf Lebovic Complex is part of Sinai Health (SH), together with Bridgepoint Active Healthcare, Circle of Care and the Lunenfeld Tanenbaum Research Institute (LTRI). The LTRI is a leading biomedical research centre, ranking amongst the top biomedical research institutes in the world.

SH is undergoing a transformative renovation over a multi-year period. The 7th floor was redeveloped into 19 new state of the art operating rooms. The 5th floor is being repurposed into a new 36-bed intensive care unit and the emergency department is being expanded by 40%. As part of this process, we have made several moves of our clinic space to accommodate renovations.

Our department has a broad capability and skill set with expertise in head & oncology including endocrine oncology, rhinology and anterior skull base surgery. We have multiple faculty who provide general otolaryngology care and specialized multidisciplinary clinics in thyroid oncology, skull base oncology, voice disorders and mouth disease. Several of our faculty are actively involved with Princess Margaret Cancer Centre multidisciplinary clinics.

Our Faculty

We welcomed Dr. Joel Davies as a new full-time clinical faculty member this year joining Drs. Jerry Chapnik, Jeremy Freeman, Eric Monteiro, Allan

Vescan and Ian Witterick. Dr. Davies trained as a resident in our program and then did fellowship training in South Carolina learning additional skills in microvascular reconstruction and transoral robotic surgery. Dr. Chapnik retired at the end of this academic year. Part-time faculty include Drs. Robert Burke, Yvonne Chan, Taryn Davids, Vinay Fernandes, Pia Pace-Asciak, Michael Roskies and Xerxes Punthakee. There is an active basic science research program developing biomarkers for oral and thyroid cancers. Dr. Taryn Davids along with speech language pathologists, conduct multi-disciplinary voice clinics. Drs. Yvonne Chan and Iona Leung (Dentistry) continue to run regular Mouth Clinics for the management of patients with challenging mouth disorders. Multidisciplinary thyroid clinics and tumour boards are held monthly. Skull base clinics have been on hold during the pandemic.

Education

Sinai Health remains a popular rotation for residents and fellows. We provided learning opportunities as best as possible during the pandemic for both undergraduate and postgraduate learners. Our usual off-service rotations for PGY1 residents in other

FACULTY

Robert Burkes (P/T),
Yvonne Chan (P/T),
Jerry Chapnik,
Dustin Dalgorf (P/T),
Joel Davies,
Taryn Davids (P/T),
John de Almeida (C/A),
Vinay Fernandes (P/T),
Jeremy Freeman,
Eric Monteiro,
Xerxes Punthakee (P/T),
Michael Roskies (P/T),
Allan Vescan.

specialties started again in dentistry, diagnostic imaging, ophthalmology and radiation oncology. There were two fellows at SH, one who rotates in the Head & Neck Oncology Fellow's rota and one who works for 12 months with Drs. Monteiro, Vescan and Witterick in the Rhinology, Skull Base and Head & Neck Oncology Fellowship. Dr. Vescan directs undergraduate medical education, Dr. Monteiro directs postgraduate education, Dr. Freeman directs the Head & Neck Oncology fellowship and Drs. Monteiro, Vescan and Witterick direct the Rhinology, Skull Base and Head & Neck Oncology Fellowship. Dr. Monteiro teaches at the University of Toronto's Centre for Quality Improvement and Patient Safety (CQIPS) and is the Course Director for the Certificate Course in Quality Improvement and Patient Safety.

Advancement

In past years, the SH Foundation, the Barberian Family and Dr. Freeman have organized the Annual Harry Barberian Memorial Dinner which unfortunately has been on hold during the pandemic. This dinner has raised more than \$650,000 for research; the proceeds have provided significant research scholarships to residents, fellows and faculty across our university department through a competitive peer-reviewed grant mechanism. The Foundation has also announced "The Jeremy Freeman Chair in Surgical Oncology". Through generous donations, we are re-establishing a nasal function laboratory.

Leadership

For the University department, Dr. Vescan is the Director of Undergraduate Medical Education, Dr. Monteiro is the Postgraduate Education Assistant Program Director, Dr. Freeman is Director of the Head & Neck Oncology Fellowship, Dr. Chan is the Director of Continuing Professional Development and Dr. Witterick is Chair of the department responsible for the overall education mission.

Dr. Monteiro is very much integrated into Quality & Safety at SH. He is Co-Chair of the Sinai Health System Perioperative Quality and Safety Committee,

member of the NSQIP Working Group, member of the System Quality of Care Committee and our representative on the Quality and Patient Safety Committee. Dr. Witterick is Past-President of the CSO-HNS and Dr. Chan is Chair of CPD/CE. Dr. Witterick is Chair of the Skull Base Section of the American Head and Neck Society and Drs. Freeman and Witterick are members of the Steering Committee for the World Congress on Thyroid Cancer (the largest meeting in the world dedicated to thyroid cancer).

We are most thankful to our hospital leadership, committed faculty, learners, nurses, administrative staff and allied health professionals who make our hospital so great and an amazing place to work.



Sunnybrook Health Sciences Centre

Dr. Danny Enepekides (Otolaryngologist-in-Chief)

The 2021-22 academic year has been a very active year for Sunnybrook Health Sciences Centre. The Centre remains Canada's largest trauma centre and the Odette Cancer Centre continues to be our region's second largest cancer centre. In late 2020, the centre released its 2021-25 strategic plan. This ambitious patient centred plan has 4 strategic directions; personalized and precise treatments, integrated and sustainable models of care, quality and creating a better care experience, and high performing teams. The department of Otolaryngology-Head and Neck Surgery at Sunnybrook has positioned itself very well to lead in all these areas.

This has been a challenging year. The pandemic may have eased but it has led to a health human resource crisis that has impacted all our institutions. Consequently, the intended post-pandemic ramp up has not happened and resources to look after our complex patient population remain inadequate. Despite such pressures, the department has continued to enjoy great success.

The Sunnybrook Health Sciences Centre Cochlear Implant Program is the largest adult implant program in Canada and recognized as an international leading centre of excellence. Year over year this program has seen increased funded volumes and represents a very significant value add to the institution. Currently, Sunnybrook is funded to place 250 implants per year. The pandemic certainly impacted volumes as these surgeries were not prioritized over trauma and

cancer surgery.

However, the program has completed almost 200 cochlear implants in 2021-22 with even greater capacity should resources permit.

The department's lateral skull base surgery program saw a dramatic increase in case volume as post-pandemic surgical activities expanded. The program completed approximately 50 acoustic neuroma surgeries in 2021-22.

In 2021-22 the head and neck surgical team performed 263 major head and neck cancer surgeries, with approximately 130 free flap reconstructions. During the pandemic the team worked hard to maintain cancer services performing 237 and 217 major procedures in 2020-21 and 2019-20 respectively. Such volumes have made the Head and Neck Oncology program at Sunnybrook one of the premiere training programs in the country. Since 2008 the department of Otolaryngology-Head and Neck Surgery at Sunnybrook Health Sciences has trained 27 fellows who have gone on to successful careers around the world.

The department of Otolaryngology-Head and Neck Surgery is home to a dynamic, innovative,

FACULTY

Julija Adamonis,
Joseph Chen,
Alain Dabdoub,
Andrew Dimitrijevic,
Antoine (Tony) Eskander,
Everton Gooden (P/T),
Kevin Higgins,
Thileep Kandasamy (P/T),
Trung Le,
Vincent Lin,
Jun Lin (P/T),
Kari Smilsky,
Ian Syrett.

productive, and collaborative research program. Over the past 5 years the program has generated over \$18,000,000 in peer-reviewed external funding (\$5,400,000 from principal or co-principal investigator led research). Areas of investigative focus are married to the department's areas of clinical excellence and include inner ear regenerative science, neurophysiologic plasticity of hearing, inner ear drug delivery, clinical trials in head and neck oncology, high-intensity focused ultrasound, and health services research. In 2021, Dr. Alain Dabdoub was awarded \$880,000 from CIHR for his work on multiomic approaches to identify regenerative pathways for the treatment of inner ear disorders. Dr. Trung Le received \$185,000 from the Hearing Health Foundation for his research on sensory hair cell and supporting cell homeostatic states. Dr. Tony Eskander also received a combined total of approximately \$500,000 in support of his health service research program. In 2022, both Drs. Le and Eskander were admitted to the Triologic Society.

The department has received multiple awards for excellence in education. It is home to the prestigious university department's Faculty Teacher of the Year Award four years running (Drs. Eskander, Enepekides, Chen, and Le). For two consecutive years its faculty have been awarded the William Dixon Sunnybrook Surgical Education Award (Drs. Enepekides and Higgins). This is given to the Sunnybrook surgeon, from any of the disciplines, who has made the biggest impact on their residents and fellows development and evolution as surgeons.

In 2021 Dr. Vincent Lin continued to support the departmental mission to support outreach to Sioux Lookout. Additionally, Drs. Enepekides and Higgins continued to work with the Canadian Ukrainian Foundation towards establishing mission trips to eastern Poland to look after Ukrainian war victims. Their first mission trip has been organized for November 2022.

Finally, the Nanji Head and Neck Centre is approaching completion with the final \$700,000 to be spent in 2022. This transformative gift in support of Otolaryngology-Head and Neck Surgery at

Sunnybrook will enhance patient experience for years to come.

The department owes tremendous thanks to our partners in Audiology for their ongoing support. Most importantly, the team thanks our wonderful nurses, residents, and fellows who have provided incredible care during a challenging time.



Trillium Health Partners

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

Dr. Yvonne Chan (Otolaryngologist-in-Chief)

Trillium Health Partners is a hospital system comprised of the Credit Valley Hospital, Mississauga Hospital, and Queensway Health Centre. Trillium Health Partners is one of Canada's largest leading academically-affiliated health centres with highly specialized regional programs in Advanced Cardiac Surgery, Geriatric Mental Health Services, Hepato-Pancreato-Biliary Services, Neurosurgery, and Vascular Surgery Services. The hospital system has 1,397 beds and had over 1.71 million patient visits in the last year. This year Trillium Health Partners received the largest donation in Canadian history. A \$105 million dollar donation from Peter Gilgan and The Peter Gilgan Foundation will be used to build the new Peter Gilgan Mississauga Hospital and the Queensway Health Centre.

Our Faculty

The passing of Dr. Lorne Segall in July 2022 has hit our division hard. We send our sincerest condolences to his family and to those who knew him. The Division of Otolaryngology – Head & Neck Surgery at Trillium Health Partners comprises of 8 members (Drs. Joseph Chen, Janet Chung, Aman Grewal, Andrew Ma, Jeff Mendelsohn, Karim Nazarali, Adam Toth, and Sandra Vojvodich). Our division members provide excellent general otolaryngology care to our community at large and subspecialty care in otology and rhinology. We also have a strong presence in head and neck endocrine surgery and pediatric tonsil/adenoid surgery. We have hired Drs. Amr Hamour, Vincent Wu and Weining Yang and

excitedly anticipate their transitions to practice in July 2023.

Education

Our division members continue to play an active and significant role in all levels of education at the Mississauga Academy of Medicine (MAM). At the undergraduate level, we are actively involved in the Clinical Skills 1 and 2 teaching in small groups and clerkship teaching in our otolaryngology ambulatory clinic.

At the post-graduate education level, PGY4 trainees continue to rotate through THP as part of their community otolaryngology experience. Our rotation has been consistently highly ranked by the residents over the years because of the unique opportunity this rotation brings. They learn the practicalities of running a practice as well as acquire new clinical skills. This rotation showcases excellent one-on-one operative experiences with the various faculty.

The THP Family Medicine Teaching Unit PGY1 and 2 residents regularly select otolaryngology as their elective at our offices to strengthen their head and neck knowledge and clinical management of otolaryngology presentations.

Leadership

Dr. Janet Chung continues to serve as the

FACULTY

Joseph Chen (P/T),
Janet Chung,
Aman Grewal,
Jeffrey Mendelsohn,
Karim Nazarali,
Adam Toth,
Sandra Vojvodich.

postgraduate education lead and Dr. Aman Grewal continues in his role as the undergraduate education lead. Dr. Chung is the liaison for the Community Academic Faculty at the university department.



Unity Health Toronto - St. Joseph's Health Centre

Dr. Andres Gantous (Otolaryngologist-in-Chief)

St. Joseph's Health Centre has continued its role serving the west end of Toronto and providing care to a multicultural community that has constantly diversified over the decades. It has been able to maintain a reputation for excellence as a community hospital as well as an academic teaching hospital affiliated with the University of Toronto. As part of Unity Health there are changes under way that may affect its role in the community and this has caused some concern among the medical staff.

The division of OHNS is currently comprised of six physicians with diverse clinical interests and sub-specialties including rhinology, neuro-otology, facial plastic and reconstructive surgery, endocrine surgery, skull base surgery and pediatric otolaryngology. The faculty all hold academic positions in the department of OHNS at the University of Toronto. The members of the division are Drs. Rick Fox, Andres Gantous, Ian Witterick, Jack Kolenda, Dustin Dalgorf and Dr. Pia Pace-Asciak who has joined the group this year. Dr. Fox and Dr. Kolenda have decided to curtail their clinical practices so we are in the process of advertising for one position and hoping to identify this new hire by the end of February 2023.

Several members of the faculty have administrative positions within the University of Toronto. Dr. Witterick just finished his second term as Chair of the Department of OHNS and Dr. Gantous is Associate Professor and Head of the Division of

Facial Plastic and Reconstructive Surgery of the Department of OHNS.

SJHC has continued to be a popular rotation for our own residents and medical students as well as from around the country and internationally. Dr. Witterick has a rhinology fellow and Dr. Gantous a facial plastic surgery fellow that worked with them throughout the academic year. We host multiple international visitors throughout the year that come to observe advanced sinus surgery, facial plastic and reconstructive procedures. The staff are directly involved in teaching Sinus Surgery, Temporal Bone, Soft Tissue Surgery and Rhinoplasty courses at the university year after year. They also participate yearly in the mock oral examinations that help prepare our residents for the Royal College examinations. We also provide teaching to Family Medicine residents rotating through the hospital.

The faculty of SJHC participate and are involved in development of Continuing Medical Education (CME) courses and local, national and international congresses and meetings. They are frequent speakers at conferences nationally and internationally, publish scholarly articles and book chapters. Some of our staff hold positions on the executive boards of national and international specialty and sub-specialty societies and organizations.

FACULTY

Dustin Dalgorf,
Rick Fox,
Robert Josephson,
Jack Kolenda,
Ian Witterick (P/T).

The division of OHNS at SJHC has been committed to teaching and education during the past five years and plan to continue doing so. The past year has been challenging for all. We have strived to support our institution and, most importantly, our community and patients' medical and surgical needs with very limited resources. We hope that we will be able to continue offering our services, growing our presence in the hospital and at the university and teaching our students, residents and fellows.



Unity Health Toronto - St. Michael's Hospital

Dr. Yvonne Chan

(Otolaryngologist-in-Chief)

Unity Health Toronto is a Catholic Health care organization that comprises of St. Michael's Hospital, St. Joseph's Health Centre, and Providence Healthcare. Unity Health Toronto now comprises 1,423 patient beds with 357,000 admissions annually. The combined annual ambulatory activity included more than 1,625,000 and 172,000 emergency room visits. The network employs 11,271 staff and 1,503 physicians are on faculty. There are 1,195 researcher staff at UH. In addition, it is a major education hub with more than 5,773 medical and other health professional learners training at the various sites.

The Department of Otolaryngology – Head & Neck Surgery (OHNS) at St. Michael's Hospital resides within the Renal & Metabolism Program. Our department provides exemplary general otolaryngology care as well as highly subspecialized tertiary services focusing on advanced rhinology, skull base surgery, laryngology, and endocrine surgery.

Faculty

The current full-time faculty are Drs. Jennifer Anderson, Yvonne Chan, John Lee, R. Jun Lin, and Molly Zirkle. The current part-time faculty are Drs. Al Chiodo, Taryn Davids, Anil Katyal, John Rutka, Tulika Shinghal, and Jonathan Yip as a clinical associate.

Education

One of our department's main pillar of excellence is medical education. Our training site rotation effectiveness scores have consistently been excellent. Our faculty members have been recognized as excellent educators.

Dr. Zirkle completed her second term as the FitzGerald Academy Director in October 2021 and she has transitioned to be the Interim Director of the Undergraduate Career Advising System at the Office of Learner Affairs at the University of Toronto.

At the University of Toronto, Dr. Lee serves as the Assistant Director (Post-clerkship) for Undergraduate Medical Education for the Department of Otolaryngology – Head & Neck Surgery and is the St. Michael's site representative for undergraduate medical education. In addition to his educational roles, Dr. Lee also serves as the Head of the Division of Rhinology for our department. Dr. Lee also co-directs the Annual U of T Resident Sinus Surgery Course.

Dr. Jun Lin has transited into the role of St. Michael's Hospital site representation on the post graduate

FACULTY

Jennifer Anderson,
Taryn Davids (P/T),
Theresa Holler (P/T),
Anil Katyal (P/T),
John Lee,
R. Jun Lin,
John Rutka (P/T),
Tulika Shinghal (P/T),
Jonathan Yip,
Molly Zirkle

medical education committee at the University of Toronto Department of Otolaryngology – Head & Neck Surgery.

In the continuing medical education arena, Dr. Chan is the Director of Continuing Professional Development (CPD) and serves as the Equity Diversity Inclusion Lead for our department at the university level.

Along with medical student electives, experience in laryngology from other residency programs is often requested as an elective. Family practice residents often join Dr. Zirkle and Dr. Chan for electives as well as Allergy/Immunology fellows join Dr. Lee for experience in rhinology. The department also provides cross-disciplinary teaching for music students and speech language pathology students as part of their curriculum at University of Toronto. In addition to these unique educational experiences, there is a clinical fellowship in laryngology supervised by Dr. Anderson. She is also cross-appointed as an Adjunct Professor to the Faculty of Music at the University of Toronto.

Clinical Excellence

Our department provides excellent general otolaryngology care as well as highly subspecialized expertise in advanced rhinology, skull base surgery, laryngology, and endocrine surgery for the inner City of Toronto. The ambulatory clinic is an extremely efficient and high-volume clinic with more than 26,048 patient encounters in the last year.

The multidisciplinary voice clinic has two full-time (Drs. Anderson and Lin) and two part-time (Drs. Davids and Shinghal) laryngologists. Three highly skilled speech pathologists, Marta DeLuca, Janine Fitzpatrick, and Taylor Strande, are invaluable team members who attend the voice clinic regularly. The KTP and TruBlu lasers for laryngology procedures has proven to be incredibly versatile and has permitted many patients to receive treatment for laryngology pathology in clinic with reduced wait times and excellent safe outcomes. Other subspecialized laryngology services in the ambulatory setting include laryngeal

electromyography and videoendoscopic guided laryngeal diagnostic and therapeutic procedures (injection augmentation and steroid injection).

Dr. Lee and Dr. Chan both subspecialize in Rhinology and Anterior Skull base Surgery. Dr. Lee also subspecializes in the outpatient epistaxis treatment for the Hereditary Hemorrhagic Telangiectasia (HHT) clinic using the KTP and TruBlu lasers. In order to reduce wait times and alleviate patient symptoms, Dr. Lee and Dr. Chan perform endoscopic nasal polypectomy in clinic.

In addition to her comprehensive Otolaryngology practice, Dr. Zirkle has a special interest in the reconstruction of the nose performing functional open and closed septorhinoplasties, providing an excellent learning opportunity for our residents.

The department members collaborate and work closely with other departments and programs throughout the institution including respirology (upper and lower airway pathology, Cystic Fibrosis Clinic, HHT Clinic), endocrinology (thyroid/parathyroid surgery, Pituitary Centre of Excellence), neurosurgery (skull base surgery, lateral and anterior), trauma/critical care (neck trauma, airway emergencies, percutaneous tracheostomy).

The part-time faculty are invaluable to the St. Michael's Hospital Department of Otolaryngology in that they serve the general otolaryngology needs of our patient population.

Our faculty is also actively involved in clinical endeavours in the underserved northern Ontario regions. Dr. Anderson serves as a consultant to care for the underserved population of the patients in Elliot Lake, Ontario.

Research

The rhinology research productivity at St. Michael's Hospital has continued to grow under Dr. Lee's direction. Dr. Lee is an Associate Scientist at the Li Ka Shing Knowledge Institute. In 2016, Dr. Anderson established the Nicole Muzzo Research

Chair in Voice Disorders and is the term chair holder. Several interdisciplinary collaborative projects have been completed with the contribution by the Faculty of Music and/or Department of Speech Language Pathology.

Dr. Lin is also an Associate Scientist at the Li Ka Shing Knowledge Institute. Dr. Lin's laryngology research spans clinical, machine learning, and basic science areas. Clinically, her interests include voice rest, gender affirmation voice care, subglottic stenosis, and dysphagia. She collaborates both within Unity Health and across Canada in various research initiatives. Both Dr. Lee and Dr. Lin are active on the Research Committee at our U of T Department.

Dr. Lin secured a number of research grants during the 2021-2022 year. She was awarded the SMHA Innovation funds (\$15,800), the Academic Medical Organization of Southwestern Ontario (AMOSO) Innovation funds (\$93,860), and the Departmental Research Award from U of T Dept OHNS (\$25,000).

At the 75th Annual Canadian Society of Otolaryngology – Head & Neck Surgery meeting, SMH Dept of OHNS had excellent representation. Dr. Chan was the CPD committee chair. Dr. Lin was one of the Poliquin Resident Competition judge and a Laryngology paper session moderator. Dr. Chan co-directed the CSO Telesimulation Endoscopic Sinus Surgery course and the Aerodigestive Endoscopy Course. Dr. Lee and Dr. Yip were both faculty at the Sinus Surgery course. All of our full time faculty (Anderson, Chan, Lee, Lin, and Zirkle) participated in 5 workshops 6 oral podium presentations in addition to 1 poster presentation. Dr. Lee co-supervised one of the Top 3 research papers at the Poliquin Resident Competition.

SMH OHNS also had an excellent representation at our U of T Department Annual Percy Ireland Research Day. Out of the 15 resident presentations, Dr. Lee supervised 3 of them which is the most number of projects by 1 supervisor. Dr. Chan and Dr. Lin each supervised 1 paper presentation. Dr. Lee

supervised the best paper in 2 resident research categories.

Leadership

Our faculty continue to provide leadership at multiple levels at St. Michael's Hospital, the University of Toronto, and beyond. Dr. Anderson is the chair of the Voice Research Committee and the Multidisciplinary Endocrine Cancer Tumour Board at SMH. She is also a consultant for both the Stratford Festival and the Canadian Opera Company.

Dr. Chan serves as the OMA Otolaryngology section Tariff chair. She also serves as the CPD chair for the CSO and helped organize the 2021 CSOHNS annual meeting. She is the past chair of the Canadian Rhinology Working Group for the CSO. Dr. Chan is a member of the Regional Advisory Council for the Royal College of Physicians and Surgeons of Canada. At the University of Toronto, she sits on the Diversity Advisory Council and is involved in multiple subcommittees of the "Excellence through Equity" initiative. She has been the co-editor of the world-renowned textbook "KJ Lee's Essential Otolaryngology" since 2011.

At the University of Toronto, Dr. Lee serves as the Assistant Director (Post-clerkship) for Undergraduate Medical Education for the OHNS department and is the St. Michael's site representative for undergraduate medical education. In addition to his educational roles, Dr. Lee also serves as the Head of the Division of Rhinology for our department.

Dr. Lin served as the St. Michael's Hospital post graduate medical education site lead on the Dept of OHNS PGME committee at U of T.

Dr. Zirkle is now the interim Director of the Undergraduate Career Advising System at the Office of Learner Affairs at the University of Toronto. Dr. Zirkle is also the co-chair of the Medical Self Study Committee for Accreditation and the Clerkship Renewal Steering Group. She is also a member of the Executive Council at the Centre for Faculty

Development. At St. Michael's Hospital, she has been chair of the Network Student Experience Committee and the co-chair of the Student Experience Committee.

Our part-time faculty Dr. Davids is the chief of the Division of Otolaryngology at Southlake Regional Health Centre.

The Department of Otolaryngology - Head & Neck Surgery at SMH has tremendous potential for growth in terms of our clinical expertise, research innovation, education, and leadership by the various faculty members. We hope to further solidify our national reputation as a Centre of Excellence in the education, research, and care of the upper airway.



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.

Dr. Chris Yao joined the department in January 2022 having been recruited from the Fox-Chase Cancer Center after a two-year fellowship at MD Anderson Cancer Center. Chris is well known to the Toronto faculty having completed his residency training in Toronto. Dr. Yao's academic focus will be in the use of deep learning in head and neck oncology. His clinical practice focuses on advanced head and neck and skin malignancy including reconstructive microsurgery and robotics.

Dr. Neil Bailie joined the department in the fall of 2021 with a focus in neuro-otology, disease of the middle ear and lateral skull base surgery. His academic focus will be in the management of vestibular disorders, continuing his collaboration with Dr. Rutka and our multidisciplinary vestibular clinic. Dr. Bailie was recruited from Belfast Northern Ireland where he was a senior consultant. He previously had completed a fellowship here at University Health Network and the University of Toronto. His surgical expertise includes; lateral skull base, middle ear surgery including stapedotomy and endoscopic middle ear surgery.

Drs. de Almeida, Goldstein and Yao lead our robotics program with an established 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 under Dr. John Rutka's leadership continues to excel 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.

The head and neck group including Drs. Gullane, Irish, Gilbert, Brown, Goldstein, de Almeida and Chris Yao continues to be extremely productive both academically and clinically.

Dr. Irish continues to lead the Guided Therapeutics (GTx) Group at TECHNA and continues to work with peer-reviewed grant support from the Terry Fox Foundation on non-invasive techniques to facilitate treatment of head and neck tumours including thyroid cancer. The GTx group has also

FACULTY

Neil Bailie
Dale Brown,
Douglas Chepeha,
John de Almeida,
David Ellis (P/T),
David Goldstein,
Patrick Gullane,
Jonathan Irish,
Ambrose Lee (P/T),
Eric Monteiro (P/T),
John Rutka,
Allan Vescan (P/T),
Ian Witterick (P/T),
Christopher Yao

been collaborating with the otolaryngology department in Brescia to initiate a tissue engineering program in bone reconstruction. The GTx group has been very active in image guidance and virtual surgical planning. Dr. Irish continues to lead the university Division of Head and Neck Surgical Oncology and Microvascular Surgery and is the vice-president of Clinical Services for Cancer as part of the Ontario Health Initiative at the provincial level.

Dr. de Almeida and Dr. Ali Hosni have developed CIHR funded clinical trial evaluating sentinel node mapping of oropharynx cancer patients, with the goal of deintensifying the treatment of patients with unilateral disease. Dr. de Almeida has been one of the surgical champions for the implementation of our new EMR (EPIC) and in that capacity has facilitated our conversion to EPIC within the surgical program at UHN.

Dr. Goldstein is providing local leadership in thyroid oncology as the endocrine site group lead at PMH. In addition, Dr. Goldstein leads the UHN's department research program. David is the Co-PI of a national trial in active surveillance of early thyroid malignancy and is active in many areas of clinical research in head and neck oncology. Dr. Goldstein continues to lead our surgical trials program funded with a million-dollar donation from the Robertson Foundation.

Generally, the entire group has been extremely productive internationally with invited presentations and free papers at numerous national and international meetings exclusively in the virtual space. Post COVID-19, we have obviously changed our engagement to a more on-line involvement and are learning to work in this new era of CPD. Numerous members of the department have delivered keynote presentations at international meetings.

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 5 clinical and 1 research fellowship position

this year. These positions are highly sought after because of the strength of the clinical program at UHN. Drs. Rutka and Bailie continue to offer an outstanding fellowship in otology and neuro-otology.

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 and neck surgery.

Special thanks to Jamie Chong and our clinical support staff for facilitating all that happens in the department. Thanks to Laura DiLiddo who continues to lead our educational programs.

We would like to invite our alumni and trainees and faculty to follow the UHN department on our Facebook and Twitter feeds and our new website. Surgical videos are also available on the Toronto video atlas web site, a unique UHN initiative for surgical education.



Research Team Reports

Neuro-Otology and Auditory Science

Auditory Science Lab

Robert V. Harrison

This is the final report for the Auditory Science Laboratory at the Hospital for Sick Children. As of January 2022, the physical laboratory operation ceased, however Bob Harrison continues other various academic activities with an Emeritus Scientist status.

The laboratory has been part of our University Department of Otolaryngology-HNS since 1984. Over that period our team has enjoyed continuous funding from CIHR as well as many supplementary grants from other agencies. We have generated over 200 peer-reviewed research papers, as well as hundreds of conference lectures and posters.

Over 38 years this facility has been very active in basic lab research projects as well as applied studies in close collaboration with clinical colleagues. Numerous graduate students, residents and fellows have trained in the lab, and for many their research has formed the thesis for a Master's or Doctoral level degree.

As the laboratory facility is now closed, there are no new trainees and existing projects are being finalized. One ongoing study, presently supported by the Barberian Scholarship fund, is a collaborative effort with the University of Utah (Dr. Albert Park) on hearing loss associated with cytomegalovirus infection. This year has seen an important publication arising from this work:

YUY, SHI K, NIELSON C, GRAHAM EM, PRICE MS, HALLER TJ, CARRARO M, FIRPO MA, PARK AH, HARRISON RV (2022). Hearing loss caused by CMV infection is correlated with reduced endocochlear potentials caused by stria damage in murine models. *Hearing Research*. 2022 Apr 1;417:108454.

Other publications of collaborative work over the past year include:

DEONARAIN AR, HARRISON RV, GORDON KA, LOOI T, AGUR AMR, ESTRADA M, WOLTER NE, PROPST EJ. (2021) Synthetic simulator for surgical training in tracheotomy and open airway surgery. *Laryngoscope* 2021 doi: 10.1002/lary.29359.

SIU JM, NEGANDHI J, HARRISON RV, WOLTER NE, JAMES A. Ultrasonic bone removal from the ossicular chain affects cochlear structure and function. *Journal of Otolaryngology-Head & Neck Surgery*. 2021 Dec;50(1):1-8.

HARRISON RV (2021). Schéma de classification des pertes auditives neurosensorielles basé sur le site cochléaire lésé et sur l'étiologie; référence spéciale aux neuropathies auditives. *Les Cahiers de l'Audition*. 34: 6-16.

I would like to take this opportunity to thank to all the past laboratory team members (research collaborators, technicians, post-doctoral fellows, graduate trainees and summer students) that have contributed to, and hopefully gained from being in the Auditory Science Laboratory. Our mission has always been to increase knowledge about the complex biological mechanisms of the auditory system and to understand the exact nature of hearing deficits. I hope that the "discovery science" generated by the lab will continue to inform our clinical understanding of hearing disorders.

Neurotology and Vestibular Research

Phillip Gerrestsen, Neil Bailie, John Rutka

Ongoing clinical care programs for the management of those with dizziness and imbalance continue to be a major subspecialty interest at UHN. The multidisciplinary approach to the dizzy patient remains a major focus of ours. Unique to UHN is

the Hertz Multidisciplinary Neurotology Program that involves neurotology, neurology and psychiatry in conjunction with the UHN Centre for Advanced Hearing and Balance Testing, Vestibular Rehabilitation Therapy through Vestibular Health and Vestibular Nursing. It is through our team approach that we are able to handle the most challenging patients with disorders and imbalance. As always, we remain committed to the development of innovative educational systems in both vestibular and oculomotor physiology.

There have been several changes to our program over the past year. Dr. Neil Bailie joined us in September 2021 as our second neurotologist. We are somewhat saddened however to announce that Dr. Paul Ranalli (neuroophthalmologist) has decided to retire from UHN and our Multidisciplinary Neurotology Clinic (MNC). Paul has been a valued consultant for this subspecialty clinic since its inception in the late 1980's from a collaboration brought together by Dr. Patrick Gullane and the late Dr. James Sharp. Subsequent to Paul's retirement, we have been helped considerably by Dr. Felix Tyndel (one of the original founding members of the MNC). We would like to thank Felix for his ongoing help in providing the continued neurological assessments for our patients.

As far as the future is concerned, we are pleased to announce that Dr. Robert Ure (neurologist/neuropsychologist) will be joining us in early 2023 to provide continued neurological care to our patients. Robert will provide a greater focus in treating those with further mental health dimensions to their presentation. To this end we are also extremely thankful to the Peter and Melanie Munk Foundation who provided a benefaction of \$250,000 to fund salary support for our vestibular nurse, Ms. Wanda Dillon. Wanda has now assumed a full-time position with our clinic.

Our current research projects involve:

1. The Burden of Dizziness in the Province of Ontario from OMA/MOHLTC data.
2. A Substantive Review of our Prospective Workplace Safety and Insurance Board (WSIB)

Neurotology Data base of over 4,500 Head Injured Workers.

3. Analysis of the UHN Multidisciplinary Gentamicin Monitoring Program for the Prevention of Ototoxicity.
4. Creation of a Teaching Portfolio from the UHN Neuroradiology and Neurotology Rounds.
5. Evaluation of the Continuous Ambulatory Vestibular Assessment (CAVA) Tracker in the monitoring of patients especially with vestibular migraine and recurrent vestibulopathy (RV).
6. Creation of a Vestibular Implant Program.

We continue to work in conjunction with our vestibular psychiatrist, Dr. Philip Gerretsen in evaluating:

1. Outcome Analysis of Patients with Cognitive Vestibular Dysfunction and Mood Change
2. Reactivity of the Vestibular System to Caloric Vestibular Stimulation in Schizophrenia.

Neurotology/Vestibular Publications for the academic year 2021-2 included:

- Shah P, Attia Mohamed, Dillon W, Sulway S, Ranalli P, Rutka J, Gerretsen P. Receiving Long-Term Disability or Pursuing a Legal Claim May Prevent Recovery From Chronic Dizziness. *Laryngoscope* 2021 doi: 10.1002/lary.29871.
- Lee A, Hassannia F, Bergin MJ, Al Zaabi K, Misale P, Rutka J. The Relationship Between Disorders of Bone Metabolism and Benign Paroxysmal Positional Vertigo: A Systemic Review. *Ear Hear* 2021; 42:1462-1471.
- Kraus M, Hassannia F, Bergin M.J. et al. Post headshake nystagmus: further correlation with other vestibular test results. *Eur Arch Otorhinolaryngol* (2021). <https://doi.org/10.1007/s00405-021-07155-z>

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Finally, we were honoured to learn that our paper “Receiving Long-Term Disability or Pursuing a Legal Claim May Prevent Recovery from Chronic Dizziness. *Laryngoscope* 2021” was considered as one of the most important publications by The *Laryngoscope* in the world literature for 2021.

Cochlear Implant, Neurotology & Otology Research

Joe Chen, Andrew Dimitrijevic, Vincent Lin, Trung Le

It has been a tumultuous year for the Sunnybrook Cochlear Implant Research lab mainly with regards to the lingering effects of the COVID-19 pandemic. Our clinical and surgical case volumes are slowly returning to normal although the effects of the nursing shortage is certainly creating ongoing challenges.

However, our cochlear implant research endeavours continue. This spring brought the return to live conferences as our group travelled to Washington DC for the American Cochlear Implant Alliance annual meeting.

The cochlear implant research team consists of Dr. Andrew Dimitrijevic who runs the cochlear implant electrophysiology lab. Drs. Joseph Chen, Vincent Lin and Trung Le run many of the clinical cochlear implant research projects and clinical trials. From the audiology standpoint, Kari Smilsky is the clinical lead and Amy Ng as well as the rest of the cochlear implant audiology team are also heavily invested in our ongoing research endeavours.

The group continues to be quite productive with a total of 16 publications in the academic year. Granting and philanthropic generosity continues to be the pillars of our fundings for our research labs and projects.

The range of projects continues to encompass all facets of cochlear implant and hearing restoration research. Our projects range from:

- Listening effort and spatial listening in CI users with Single-Sided Deafness (SSD)
- Mechanisms of tinnitus suppression with a CI in SSD
- Neural correlates of auditory working memory is related to speech perception in noise in CI users
- Development of a brain-computer-interface based on auditory selective attention
- Neural responses to semantic expectancy in natural speech
- Development of a selective spatial listening task that relates to Quality of Life in CI users
- Online tests of working memory relates to speech perception and Quality of Life in CI users
- Neural stimulation using high-density transcranial direct current stimulation.
- Robotic Mastoid Drilling
- Magnetic Targeting

- Cognitive Assessment as a Predictor of Short and Long Cochlear Implant Outcomes
- Improving the Hearing Status Discrimination of the Health Utilities Index, Mark 3

Our group is hoping for a healthy and COVID-19 shutdown free upcoming academic year.



4. Identifying and quantifying inner ear biomarkers that report on the pathologies and treatment efficacies of the inner ear.

All our accomplishments are a result of all the efforts of a dedicated group of trainees and the vision and support of the Sunnybrook Otolaryngology Department. Our work is published in impactful journals and presented at several podium at international and national conferences as well as international invited talks.

Our lab is supported by multi-year grants from the Canadian Institute of Health Research (CIHR) Natural Sciences and Engineering Research Council (NSERC), the International Hearing Restoration Project – Hearing Health Foundation, and the Krembil Foundation as well as by the Koerner Foundation.

Follow us on Twitter: @LabDabdoub

Auditory Development & Regeneration

Alain Dabdoub

Our research program centers on discovering and elucidating the molecular signaling pathways and transcription factors responsible for the neurodevelopment and regeneration of the cochlea – the hearing organ. Our goal is to connect the developmental biology of the inner ear to diseases and ultimately to regenerative medicine for the amelioration of hearing loss.

We carry out a dynamic interdisciplinary and highly collaborative research program centering on four main foci drawing upon our diverse training and expertise. These are:

1. Discovering the molecular underpinnings of hair cell development and regeneration.
2. Regenerating auditory neurons through direct cellular reprogramming.
3. Developing new approaches of non-invasive delivery of therapeutics to the inner ear.



Dabdoub Lab May 2022



Sensory hair cells in the cochlea convert sound into an electrochemical signal for processing in the brain. Many life-saving drugs are toxic to hair cells, and hair cells are unable to regenerate. Therefore, permanent hearing loss is a common side-effect of ototoxic drug treatments. In this image, a cochlear explant is being used to quantify hair cell death when testing a therapeutic approach for preventing drug-induced hearing loss. Live hair cells are red (Myosin-VIIA) and dying cells including hair cells are green (TUNEL).

Publication: Ogier[★], JM., et al. (2022). ASK1 is a novel molecular target for preventing aminoglycoside induced hair cell death. *Journal of Molecular Medicine*. 100: 797–813. *Journal Cover*.

Paediatric Cochlear Implant Research Lab

Karen Gordon, Blake Papsin, Adrian James, Sharon Cushing

This year remained marked by the realities of the COVID-19 pandemic. Nonetheless, the Cochlear

Implant Laboratory at the Hospital for Sick Children has continued to investigate auditory and vestibular 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 early identification and stimulation through prostheses including cochlear implants, hearing aids, and bone conducting devices? 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 several studies currently underway.

Our team includes Jaina Negandhi, our Research Project Co-ordinator and Al Blakeman, our Research Project Co-ordinator.

As is typical, we have had changes in our graduate student team. Robel Alemu has continued in his PhD degree program at IMS this year. He is assessing spatial hearing in children with and without hearing loss. Angela Fung continued her MSc degree program at IMS. She is investigating methods to assess access to binaural hearing in children with hearing loss. Robel and Angela both presented initial findings at the virtual 45th mid-winter meeting of the Association for Research in Otolaryngology in February 2022. Angela received a student award for this abstract. They also made great gains this summer, recruiting and testing over 30 children who participated in their studies. Robel also significantly contributed to data collection and analyses in a paper in review at Otolology and Neurotology.

Rebecca Benjamin successfully defended her MSc thesis, completing her graduate program in IMS in January 2022. Despite COVID-19 related restrictions, she was able to collect important data on postural stability in individuals with cochleo-

vestibular impairments. Rebecca presented her work at the virtual 45th mid-winter meeting of the Association for Research in Otolaryngology in February 2022 and has 2 papers in review (1 at Ear and Hearing, 2 at Scientific Reports).

Lulia Snan joined our team as an MSc graduate student at the Institute of Medical Sciences in September 2022 so we will look forward to reporting on her progress in next year's report.

Last summer (2021) we were able to welcome Emily Wener, a medical student from the University of Ottawa, and Praveen Sritharan, an undergraduate student as summer students in person in the lab and Cole Sandler, an undergraduate student, was able to volunteer remotely. This summer, we welcomed Emily back as well as Jonathan Pike who is an undergraduate student at Western University. We also have a team of medical students (Emily Wener from University of Ottawa; Lindsay Booth from the University of British Columbia, Veeral Desai from Queen's University, and Haily Bensky from McMaster University) who have been working on a follow-up study to our paper in 2021 showing reduced access to spoken communication by children with CIs associated with pandemic related school closures.

We continue to have important collaborations both locally (Adrian James, Evan Propst, Susan Blaser, Jenny Campos, Andrew Dimitrijevic, Elizabeth Pang, Birgit Ertl-Wagner), nationally (Steve Lomber) and internationally (Ruth Litovsky). We have an active collaboration with Steve Lomber, McGill University, to assess potential mismatches in stimulation levels in children using bilateral cochlear implants. Carina Sabourin, a PhD student from McGill University, is collecting and analyzing these data.

The past year has been very productive. 19 publications came out or are in the press. Between this summer and last, we collectively presented over 20 abstracts at international meetings and gave over 30 invited talks at virtual international meetings.

We were also excited to launch our Hear Here Podcast! Please check it out and subscribe.



We are excited to share that the Archie's Cochlear Implant Lab at the Hospital for Sick Children in Toronto, Ontario has launched the new Hear Here Podcast!

The goal with these episodes is to explore, discuss and learn about new ideas that may help people use devices like cochlear implants to hear

Hosted by Dr. Karen Gordon (Senior Scientist, Audiologist) and co-hosted by Dr. Sharon Cushing (Co-Director of the Cochlear Implant Program) and Dr. Blake Papsin (Chief, Otolaryngology) at the Hospital for Sick Children, Toronto, Canada

QR code to all of our podcast platforms and episode transcripts on our lab website!



Produced and edited by Hear Here Podcast Team members with personal CI experience (Maria Khan, Sofia Olazola and Rachel Bedder)

Some additional highlights from the past year include:

- 6 student/trainee awards including the Margaret & Howard GAMBLE Research Grant, Temerty Faculty of Medicine, University of Toronto and Raymond Ng Graduate Research Award, Dept. Otolaryngology-Head & Neck Surgery, University of Toronto to Melissa Hazen
- Travel Award, Association for Research in Otolaryngology, 45th Annual Mid-winter meeting to Angela Fung
- Excellent Presentation Award, Collaborative Program in Neuroscience (CPIN) 2021 Research Day Awards, University of Toronto to Rebecca Benjamin

Head and Neck Oncology

Head & Neck Oncology Research

Danny Enepekides, Kevin Higgins, Antoine Eskander

The Sunnybrook Health Sciences Centre Head and Neck Oncology Division had a productive year with several clinical trials and research projects currently underway.

Our Odette Cancer Centre head and neck disease site lead has transitioned from Dr. Kevin Higgins, who did a fantastic job over the last decade, to Dr. Antoine Eskander. In September 2022, the disease site had a retreat at the Toronto Lawn Tennis Club to discuss both clinical and research affairs of the site. This included dentistry, oral surgery, clinical nutrition, speech and language pathology, research coordinators, nursing, medical oncology, surgical oncology, and radiation oncology. The site continues to grow clinically and academically centered around a vibrant and collaborative multidisciplinary clinic. The research portfolio of the group, particularly as it relates to clinical trials, has grown substantially particularly in the realm of industry driven trials.

A few clinical trials have achieved successful recruitment and closure this year in HPV-associated oropharyngeal SCC; most notably ORATOR II, HN.10 (EVADER), which examine de-escalation radiotherapy vs. trans-oral surgery, and de-escalation radiotherapy, respectively. The Sunnybrook site is an active site and contributor to the upcoming HN.11 study with Dr. Eskander on the surgical quality committee for the trial and with Dr. Martin Smoragiewicz as the medical oncology lead. Our site was also the first outside of the sponsoring centre to pilot the injection as part of a pilot project. Most notably, Dr. Ian Poon, is leading a CCTG approved clinical trial (HN.13) looking at the role of SBRT in unresectable head and neck cancers; a technique he has developed and published on extensively. While this is approved at CCTG, funding is being sought to support this important trial.

Dr. Martin Smoragiewicz, Dr. Antoine Eskander and Dr. Trung Le are leading multicentre clinical trials which will explore the effects of high vs low-dose cisplatin and N-acetyl cysteine (NAC) on ototoxicity for locally advanced head and neck squamous cell carcinomas (HNSCC). Several upcoming and open trials are assessing the role of novel immunomodulatory agents in combination with immunotherapy and chemotherapy in primary and recurrent/metastatic HNSCC. One particular study of interest will be examining the role of induction/neoadjuvant immunotherapy prior to surgical resection of curable locoregionally advanced head and neck cancers. Dr. Eskander is the local principal investigator of a large national CIHR-funded active prehabilitation randomized trial is also open for frail patients undergoing head and neck surgery, hepatobiliary surgery, colorectal surgery and gynecology surgery.

The division has completed and published a research project in collaboration with the Department of Dentistry (Dr. Eszter Somogyi-Ganss) and Craniofacial Prosthetics Unit to assess the use, retention, and satisfaction with craniofacial prosthetic devices. The team continues several innovative studies which focus on surgical technique and medical education. The team including dentistry, oral and maxillofacial surgery, anesthesia and head and neck surgical oncology are embarking on a large project to study all their osteoradionecrosis patients in a multidisciplinary fashion to complement our recently developed and implemented survivorship rounds.

Dr. Andrew Bayley is overseeing several head and neck quality improvement studies. Quality improvement studies at the Odette Cancer Centre are focused on improving time to radiotherapy in the adjuvant setting, staging documentation and accuracy, and after-hours symptom screening/intervention. Some of these projects, led

by Dr. Bayley are multi-institutional studies through the American Head and Neck Society (AHNS).

Dr. Higgins is the site lead for a multicentre tissue perfusion study which is looking at the assessment of pharyngeal mucosal perfusion status and outcome relative to pharyngocutaneous fistula. He is also the principal investigator on a multicentre thermal imaging assessment of pharyngeal mucosal perfusion status and outcome relative to pharyngocutaneous fistula study which uses novel app-based technology to map out perforators for free flap reconstructions. Both studies are active with prospective data collection. In addition to providing residents and fellows with hands on microsurgical education in the operating room, a novel microsurgical educational model has been designed and is in final development. Future studies will assess its fidelity and use in education.

Dr. Higgins, in conjunction with Dr. Kathy Roth from Western University, is co-leading a national study through the Collaborative Research Initiative of the Canadian Society of Otolaryngology – Head & Neck Surgery, to prospectively study patient and system factors associated with the presentation of advanced cutaneous malignancies. This work is closely tied to provincial and national initiatives designed to combat the advanced presentation of cutaneous malignancies.

Dr. Antoine Eskander holds an American Association of Otolaryngology – Head and Neck Surgery (AAO-HNS) Health Services Research Grant, a New Investigator Award from the Terry Fox Research Institute and Canadian Institute of Health Research (CIHR), CIHR funding for his COVID Cancer work, and two grants from the Canadian Cancer Society. In total Dr. Eskander has received nearly \$3,000,000 in peer-reviewed grant support as principal investigator or co-principal investigator. Dr. Eskander is an active leading scientist at ICES in the Cancer Program. Dr. Eskander has formal graduate appointment status and is on several thesis committees at the Institute of Health Policy, Management and Evaluation including co-supervision with Dr. Natalie Coburn and one of our own residents, Dr. Christopher Noel, who recently

very successfully completed his PhD thesis. Dr. Eskander is also co-mentoring students from the Department of General Surgery and their division of Surgical Oncology. He has an incoming vascular surgery resident MSc trainee as well as an incoming otolaryngology post-graduate PhD trainee.

Many collaborative studies are being completed at Sunnybrook as part of the Canadian Society of Otolaryngology – Head & Neck Surgery (CSOHNS) Collaborative Research Initiative. These studies include a study assessing locoregional failure in patients with T3 larynx cancer, a study assessing low grade salivary gland cancers and the role of adjuvant radiotherapy, survival outcomes in young patients with oral cavity cancer, margins in oral cavity cancer patients, wait-times association with outcomes in oral cavity cancer patients, and a study assessing the impact of targeted therapy on anaplastic cancer outcomes. Many of these studies are near completion and some have been accepted for publication. Dr. Higgins and Dr. Eskander are actively engaged through the Collaborative Research Initiative in all of these studies.

A recent focus has been on COVID-19 and its impact on the cancer system. Several funded studies are underway assessing the impact of the pandemic on cancer surgery, cancer incidence, emergency department use among cancer patients, telehealth use, imaging use, and cancer therapy received (chemotherapy and radiotherapy) as well as wait times. These studies have garnered the research team a lot of media attention. Other active health services research studies at ICES include 1) examining self-harm and psychological distress in cancer patients, 2) examining the impact of anesthesia case volume on outcomes in high-risk cancer surgery, and 3) assessment of patient-centered outcomes in older adults undergoing cancer surgery.

There are three active artificial intelligence and machine learning studies at Sunnybrook. The first assessing a natural language processing algorithm to capture staging data for patients with oropharynx cancer directly from the chart in collaboration with Pentavere. We are also involved in a multicentre study to assess the accuracy of a machine learning

algorithm that would pre-screen thyroid cytology slides into a Bethesda classification system. Lastly, we have published work conventional prediction modeling techniques to machine learning algorithms as it relates to predicting emergency department visits in head and neck cancer patients.

Head & Neck Surgical Research

David Goldstein, Ralph Gilbert, Patrick Gullane, Dale Brown, Jonathan Irish, John de Almeida

The 2021–2022 Academic year has been another productive and successful research year for the Wharton Head and Neck Cancer Surgery research program at the University Health Network. Research at the University Health Network takes place across the three sites, with the majority of research being conducted at the Toronto General Hospital and Princess Margaret Cancer Centre. The two major research programs are the head and neck oncology program and the otology/neurotology program. The head and neck surgical oncology investigators 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. Dr. David Goldstein is the director of the head and neck surgical research program at the University Health Network. Members of the UHN head and neck surgical team have several research leadership roles including Dr. John de Almeida as the research lead for the University of Toronto Division of Head and Neck Oncology and Reconstructive Surgery within the Department of Otolaryngology-Head & Neck Surgery and Dr. Jonathan Irish serves as the core lead for the Guided Therapeutics program in the TECHNA Institute, University Health Network.

Over the past academic year, the UHN surgeons had numerous peer-reviewed publications and book chapters published, which is a continued year over year increase. The Robertson Foundation clinical trials program has been established within the UHN head and neck surgical research program. Dr. John de Almeida and Dr. Ali Hosni (head and neck radiation oncology at the University Health Network) are leading an international trial, the SELECT Trial –

SPECT-CT Guided Treatment of the Contralateral Neck in Lateralized Oropharynx Cancer which is also being supported by the Canadian Cooperative Trials Group, as well as by the National Cancer Institute in the United States. The Active Surveillance for Low-risk Thyroid Cancer Trial, led by Dr. David Goldstein and Dr. Anna Sawka (Endocrinology University Health Network), has been expanded out across Canada with recruitment starting at many of the Canadian university centres. Multicentre and co-operative groups are in the process of being opened at UHN.

National collaboration in research either as a lead or participating site is being performed in conjunction with the Canadian Society of Otolaryngology-Head & Neck Surgery Collaborative Research Initiative (CRI) Head and Neck Group. There continues to be an ongoing international research collaboration. The Guided Therapeutics Program work and accomplishments are covered in a separate report.

We continue to build our data infrastructure, and in particular a comprehensive head and neck surgery database that incorporates data collection into current clinical workflows and is supported by the Shen Family Charitable Foundation. Implementing this database will help create an all-encompassing clinical research database for Head and Neck oncologic patients that builds on the Anthology of Outcomes Head and Neck Radiation Database. It will also leverage technology to improve clinical workflow while populating a clinical database with real time surgical data, outcomes and treatment effects, as well as provide a foundation to help build on our research program in data science and machine learning. Dr. Christopher Yao is heading up the data science and artificial intelligence research and is currently completing a masters of applied science in mechanical and industrial engineering at the University of Toronto.

Lastly, training and education in research continues to be a priority at UHN. Our researchers have continued to supervise and train undergraduate students, medical students, residents and fellows in research in otolaryngology-head & neck surgery.

Head and Neck Surgery

Guided Therapeutics (GTx) Research Program

Jonathan Irish (GTx Program Leader/Director, Clinical Faculty, TECHNA Research Institute)

GTx Program Staff:

Jason Townson, PhD (manager/scientist), Michael Daly, PhD (staff scientist and engineer), Harley Chan, PhD (engineer), Robert Weersink, PhD (physicist), Daniel Lin (engineer), Jimmy Qiu (engineer)

GTx International Scholar Scientist:

Drs. Nidal Muhanna MD PhD, Donovan Eu MD and Catriona Douglas MD PhD

GTx Toronto-Brescia & Padua International Scholar Program:

Marco Ferrari MD, Stefano Taboni MD, Tomasso Gualtieri MD

GTx Fellows:

Drs. Axel Sahovaler, Sharon Tzelnick and Esmat Najjar

GTx Visiting Resident (Italy-Toronto Collaboration):

Drs. Leonardo Franz and Alessandra Ruaro

The GTx Research Program, part of UHN's TECHNA Institute and Princess Margaret Cancer Center, continues to lead and support research, run translational clinical trials, and develop new technologies and interventions in head and neck, skull base, thoracic and sarcoma cancer surgery. This research is completed by our multidisciplinary team of surgeons, radiation physicists, engineers, programmers, chemists, cancer biologists, and imaging specialists, using the key GTx infrastructure consisting of the GTx Operating Rooms (GTx-OR at the Toronto General Hospital, GTx-OR2 at

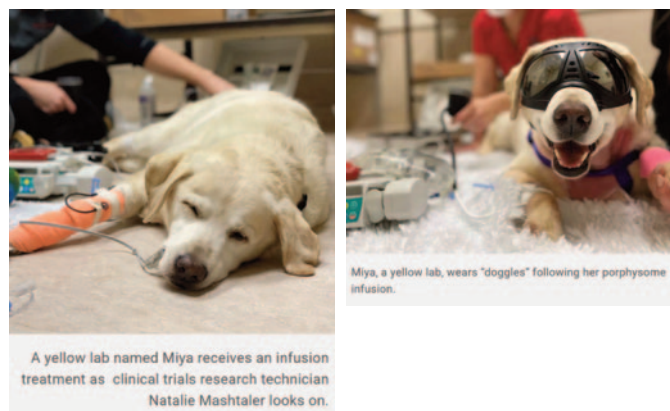
Mount Sinai Hospital) and the GTx-Lab (at the Princess Margaret Cancer Research Tower). During the past year, the GTx Program focused on translational research and development of a broad range of new and continuing research projects:

- The new GTx-OR at Mount Sinai is now completed and operational. As part of OR reconstruction at Mount Sinai, Drs. Jay Wunder and Peter Ferguson, working with members of the GTx program, designed and developed an osteosarcoma-focused OR with GTx-developed navigation technology incorporated in the design for routine clinical use. This work has been supported by The Strobele Family Guided Therapeutics (GTx) Research Fund;
- As part of a collaborative research team funded by a Terry Fox New Frontiers Program Project Grant (\$6,600,000 CAD-PI: Zhang, Co-PI J Irish, B Wilson) for "*Porphysome Nanoparticle-Enabled Image-Guided Cancer Interventions*", our nanoparticle development and translational research has continued. This primarily includes the GTx Program's research and development of porphysome nanoparticles (developed by and in collaboration with Dr. Gang Zheng) as an imaging and therapeutic (theranostic) agent for thyroid and oral cavity cancers. During 2021/22, a primary focus was on completing preclinical safety and efficacy studies for oral cavity and head and neck applications. GMP nanoparticle production scale up, and safety and efficacy data obtained as part of this collaboration is anticipated to lead to Health Canada IND approval and first in human clinical trials in 2023/24;
- Building upon past nanoparticle efficacy research in the GTx-Lab, we have extended the research focus to include porphysome PDT as a mono and adjuvant therapy for oral cavity carcinomas.

We developed a safe, quick and highly efficacious procedure that leads to long-term disease-free survival of preclinical animals with highly aggressive oral cavity tumour models. The research has been summarized and submitted in two separate publications that will be published soon (Sahovaler et al, 2022 and Tzelnick et al, 2023);

- As part of a larger nanoparticle clinical trials group, multiple grant applications were successful and awarded funding to complete GMP porphyrin nanoparticle production and to begin first in human clinical trials. This includes funding of \$500,000 to Dr. Irish as a Co-PI from the PMCF Agnico Eagle Beyond Chemotherapy Grand Challenge for the project “*First-in-Human Porphyrin Nanotechnology for Precision Tumor Ablation and Surgical Guidance*”. In addition, the GTx Lab continues its strong collaboration with Dr Gang Zheng and Dr Irish is the Co-Investigator/Overall Clinical Lead in “*First-in-Human Porphyrin Nanotechnology for Precision Tumour Ablation and Surgical Guidance*” supported by an Ontario Institute for Cancer Research Clinical Acceleration Team Award for \$1,130,803 CAD.
- Thanks to a generous donation by the Austin family, a new GTx International Fellow program has officially been established that will allow for the continued training of international clinical research fellows. Each year the P. Austin Family Foundation GTx International fellowship will sponsor up to two fellows to pursue a clinical or research fellowship at Princess Margaret Cancer Center/UHN. One fellow each year will be integrated with the GTx program to bridge the gap between laboratory and clinical research.
- As reported last year, the GTx group has started a new collaboration with the Dr. Michelle Oblak at University of Guelph/Ontario Veterinary College to examine safety and efficacy of porphyrin PDT in spontaneously occurring veterinary tumours (oral cavity and thyroid) in cats and dogs. Dr. Irish and collaborators were

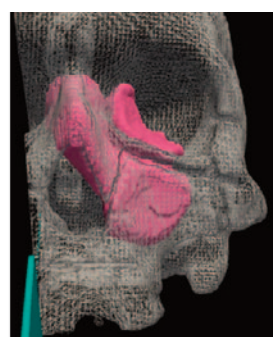
the recipient of a 3-year Canadian Cancer Society Challenge Grant (“*Nanoparticle enabled photodynamic therapy and fluorescence guided surgery for treatment of oral cavity cancer*”) that commenced in January of this year (2022). This research will continue our translational development and study of the efficacy and feasibility of using porphyrin nanoparticles for PDT treatment and fluorescence image-guided surgery for spontaneous veterinary H&N cancers. The first “patient animals” have been treated and the research on safety and efficacy is ongoing;



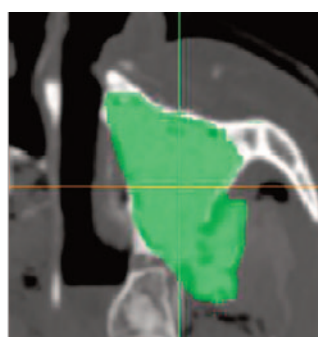
- The new Siemens Cios Spin cone-beam CT has completed the first year as our main research imaging system in GTx-Lab. Routine use of the new cone-beam CT continues, with use primarily by the H&N and thoracic research groups collaborating with GTx (Inage T., et al. J Thorac Dis, 2022).
- Developing a 3D fluorescence imaging system for head and neck surgical guidance (OHNS Raymond Ng & Wendy Chui Innovation Fund); in 2022 developed and validated a novel deep learning algorithm to quantify depth of invasion in simulated oral cavity tumours (Daly et. al, OPTICA, 2022).
- Dr. Mandolin Bartling started her PGY2 research block in GTx-Lab working on the project “*Clinical Oral Cancer Tumour Models for AI-Enabled 3D Fluorescence Imaging*”. This involved the creation of 3D printed lab models based on contours of oral cancer tumours on CT/MR to

evaluate the performance of our 3D fluorescence system.

- Supervision of co-op students from McMaster, Waterloo, Toronto and Toronto Metropolitan Universities working on 3D fluorescence from undergraduate / graduate programs in biomedical engineering and medical physics, including: Stefanie Markevich, Scott Holtshousen, Arjun Jagota, Josie La Macchia, and Natalie Won.
- Developing and translating image-guidance and 3D intraoperative imaging technologies for craniofacial models; in 2021 a pre-clinical cadaver study demonstrating surgical navigation reduced the rate of margin involvement, particularly by improving delineation of bone-uncovered areas was completed (Ferrari M, et. al., *Eur J Surg Oncol*, 2022).
- Continuation of multiple collaborative projects with the University of Brescia and University of Padua (Italy) and Dr Piero Nicolai focused on 3-dimensionally printed stem cell scaffolding for bone reconstruction and other head and neck reconstruction projects (Irish/Gilbert/GTx). This included publication or submission of two manuscripts (including Sartore L et al, *Int J Mol Sci*. 2022 and Ferrari M et al. submitted 2022 – Figure 1) detailing characterization and initial in vitro and in vivo research results with these materials. Dr Ferrari also went on to publish a multi-centre study entitled “*The MUSES*: prognostic study on 1360 sinonasal cancer patients undergoing endoscopic surgery-based treatment*” in the *European Journal of Cancer*.
- Fellowships: 1) Axel Sahovaler successfully completed 1 year as GTx research fellow and has joined the staff at University College London as a consultant 2) Leonardo Franz, the 4th GTx-Italy research fellow, successfully completed his fellowship in January 2022 and has returned to the University of Padua. Alessandra Ruaro has joined the GTx team from the University of Brescia.
- Evaluating custom augmented reality (AR) and virtual reality (VR) technologies for surgical training and guidance; in 2021/22, this resulted in publication of a study demonstrating a projector-based AR method improved margin delineation, and preoperative planning was accurately translated to the simulations (Chan HHL et al., *Oral Oncol.*, 2022).



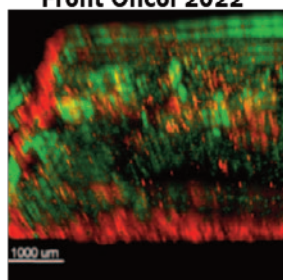
Sahovaler et. al.
Front Oncol 2022



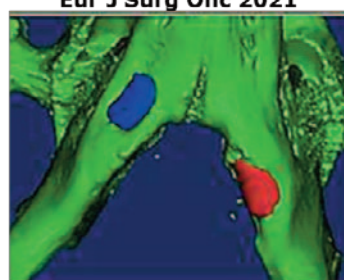
Ferrari et. al.
Eur J Surg Onc 2021



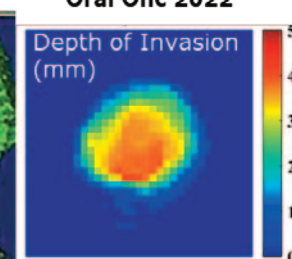
Chan H et. al.
Oral Onc 2022



Sartore et. al. *Int J Med Sci* 2022.



Ferrari et. al.
2022



Daly et. al.
OPTICA 2022

Rhinology

Rhinology Research (SMH)

John Lee

The 2021–2022 academic year represented a time of transition in research activities at St. Michael's Hospital. With more activities and meetings returning to in-person, we have been fortunate to continue to produce and present several research papers from our rhinology research program. Again, I am indebted to the ongoing generous support from The Dunin Foundation, which has allowed us to continue to pursue many of our research projects.

Scientific Publications:

We had a total of 5 peer-reviewed publications this past year. This included manuscripts published in prestigious journals such as The Journal of Cystic Fibrosis, The Journal of Neuro-ophthalmology, the International Forum of Allergy and Rhinology and the European Archives of Otolaryngology-Head & Neck Surgery. A couple of these papers deserve a special acknowledgement.

1. Lee DJ, Sykes J, Griffin K, Noel CW, Hyung B, Chokar K, Yao CM, Tullis E, Lee JM. The negative impact of chronic rhinosinusitis on the health-related quality of life among adult patients with cystic fibrosis. *J Cyst Fibros*. 2022 May 31;21(5):800–806. doi: 10.1016/j.jcf.2022.05.008. PMID: 35660273.

This study was one of the first to highlight the negative impact of CRS on overall health related quality of life in one of the largest series of cystic fibrosis patients. A huge congratulations to Dr. Daniel Lee for leading this study and a sincere thanks to the Cystic Fibrosis program at St. Michael's Hospital for their ongoing collaboration to bring the best possible care to our patients.

2. Sampieri G, Namavarian A, Lee JJW, Hamour AF, Lee JM. Hypothalamic-pituitary-adrenal axis

suppression and intranasal corticosteroid use: A systematic review and meta-analysis. *Int Forum Allergy Rhinol*. 2021 Jul 14. doi: 10.1002/alr.22863.

This was one of first systematic reviews and meta-analyses to investigate the risk of hypothalamic-pituitary-adrenal axis suppression with the use of intranasal corticosteroids (INCS). By critically examining the published literature, we were able to summarize the specific risks associated with older and newer generation INCS as well as the risks associated with prolonged usage of the medication. A sincere thanks to our residents Gianluca Sampieri, Pouyan Namavarian, John Jong Wook Lee and Amr Hamour for their efforts in putting this tremendous paper together.

I am also proud to report that this past year, we published the first ever Sinus Surgery CT Anatomical Checklist application available for both iOS and Android. Designed for trainees or those who perform sinus surgery, the app highlights a number of key anatomical structures which should be reviewed on a CT scan prior to surgery. Representative CT images with labels are included as well as a list of relevant literature for review.

<https://apps.apple.com/ca/app/sinus-surgery-ct-checklist/id1599315087>

https://play.google.com/store/apps/details?id=com.fess.checklist&hl=en_CA&gl=US&pli=1

Scientific Meetings and Presentations

This year marked the first time in almost 2 years that many of our rhinology research projects were presented in-person at international, national and local scientific meetings. Below are some notable highlights:

1. Drs. John (Jong Wook) Lee and Amr Hamour presented their work on a chronic rhinosinusitis

mouse model at the American Rhinology Society Annual Meeting in Los Angeles, CA in October 2021.

2. Drs. Elysia Grose and Shireen Samargandy presented their work on AERD and Immunodeficiency Associated CRS respectively at the Canadian Society of Otolaryngology-Head & Neck Surgery Annual Meeting (virtual) in October 2021.
3. Drs. Lily Wang, Marc Levin and Vincent Wu presented their work at the Percy Ireland Academic Resident Research Day (May 2022). This was another large showing from our rhinology research program at SMH. A huge congratulations to Dr. Wang for co-winning the top research award for a PGY-2 trainee on her project entitled “Automation and Optimization of Radiological Interpretation of Chronic Rhinosinusitis on Paranasal Sinus Computed Tomography (‘Deep Sinus CT’)”. Dr. Wu also won the top research award for a PGY-4 resident with his project entitled “Levels of Nasal Nitric Oxide and Inducible Nitric Oxide Synthase Expression in Chronic Rhinosinusitis with Nasal Polyposis”.

In summary, I am proud of all our accomplishments this past academic year and look forward to even greater things in 2022-2023. None of this success would ever be possible without the enthusiasm, dedication and commitment from the many residents and medical students who continue to support our program.

VOICE AND UPPER AIRWAY

Voice and Upper Airway Laboratory

Jennifer Anderson & R. Jun Lin

Despite alterations to academic and clinical practices subsequent to the pandemic, the voice research team at St. Michael's Hospital has continued to develop further collaboration with regional and international colleagues in voice and laryngology research.

The voice research team including trainees, speech language pathologists and laryngologists as well as a research coordinator. Unfortunately, we were unable to hire into that position which was vacant for most of 2021 until recently. We welcome Silkan Bain, our new research coordinator, who will anticipate will be a key team member assisting in our research productivity.

There have been some additional team members to our laryngology centre in 2021 with two new full-time speech pathologists: Janine Fitzpatrick and Taylor Strande join Marta De Luca (also a mezzo soprano) as full-time therapists in our department. Both are talented speech pathologists working with outpatient laryngology and swallowing patients as well as research participation. Gwen Merrick, a long-standing valued team member, has departed to a very successful combined psychotherapy and speech pathology private practice.

Members of our department and/or trainees involved with research projects have presented at various national and international meetings. This includes the International Association of Phonosurgery (Kyoto, Japan), Fall Voice (San Francisco, USA), Oto Update (Toronto, Ontario) and COSM (United States) and ASHA (United States) as well as the CSO (virtual).

Active Research Grants

Co-investigators: Anderson J, Lin, RJ

St. Michaels Hospital Alternate Funding Plan: Innovation Grant.

Comparison of Blue light and KTP laser treatment for RRP in adult ambulatory population. \$12,000 (Nov 2019).

Status: mid-phase in patient recruitment (Delayed directly due to COVID resource restrictions).

Dr. Jun Lin: Principal Investigator

Surgical Protective Barriers for AGMP in the Head & Neck Region for SARS-CoV2 and Similar Respiratory Pathogens, SMH Alternate Funding Plan, \$25,000 (June 2020).

Dr. Jun Lin: Principal Investigator, Dr. Jennifer Anderson: Co-Investigator
 Comparison of Transcriptomic Changes in Idiopathic Subglottic Stenosis & Normal respiratory Mucosa Using High Throughput RNA Sequencing. American Laryngological Association. \$10,000 USD. (May 2020).
 Status: Patient recruitment nearing completion.

5. Waste Audit: Comparison of In Office and Operating Room Laser surgery for laryngeal pathology (Dr. J. Anderson).

Additional Ongoing Projects

1. Development and assessment of laryngeal pathology atlas for resident education (Drs. Jun Lin, Jennifer Anderson and Grace Yi) Trainee project. Presented Fall Voice 2022.
2. Developing an objective structured assessment of technical skills (OSATS) in microlaryngoscopy (Dr. Jun Lin).
3. Voice as a Biomarker of Health for the Bridge2AI program Voice Collaborative. Yael Bensoussan, Anthony Law, Matthew Naunheim, Phillip Song, Paul Bryson, Jennifer Anderson, plus other investigators.

Formation of VoiceCollab.ai, a multidisciplinary multi-institutional academic-industry partnership, aiming to collaborate in acoustic, video and demographic data collection for the advent of robust and inclusive AI in voice science.

4. Retrograde Cricopharyngeal Dysfunction:
 - a. Effects on Mood and Social Isolation (Dr. Isabel Besserer, Dr. J. Anderson) Trainee Project (Fall Voice 2021).
 - b. High Resolution Manometry Findings in RCPD (Dr. Zainab Baksh, Dr. L. Louis (UHN), Dr. J. Anderson) IAP 2022 presented.
 - c. Effects of In Office Botox Injection on symptoms of RCPD (Trainee Project) Dr. Zainab Baksh and Dr. J. Anderson.

Status: Prospective patient recruitment intake completed (> 70 patients).



Humanitarian Outreach

Humanitarian Outreach

Face the Future Foundation

Dr. Peter Adamson, OOnt, MD, FRCSC, FACS
President and Founder

Face the Future Foundation, like so many people and organizations in the past year, faced many challenges while realizing many opportunities.

Due to either the ongoing effects of the COVID-19 pandemic or geopolitical and military unrest, planned missions to Addis Ababa, Ethiopia, Kigali, Rwanda and Kathmandu, Nepal had to be deferred. The Foundation has also suspended all missions to Russia and publicly stated its intention to support Ukraine. Dr. Adamson and Dr. Rick Jaggi, Associate Professor of OHNS at the University of Saskatchewan completed a pilot mission to Erbil, Iraq in October 2021. Unfortunately, future missions have been cancelled due to unrest in the area.

The Board of Directors was pleased to announce the addition of two new members, both Mission Directors. Dr. Anthony Brissett is a Clinical Professor of Otolaryngology and Vice-Chair of his department at the Institute of Academic Medicine at Houston Methodist Hospital and Weill Cornell Medical College. He has participated in missions for 15 years and will head up one of the Foundation's new missions to Africa. Dr. Jeremy Warner, a plastic surgeon and former fellow of Dr. Adamson's, is a Clinical Assistant Professor of Surgery at the University of Chicago Pritzker School of Medicine. He is Mission Director for Nepal.

Face The Future reviewed and confirmed its vision, mission and values. It also responded to the pressing need for individuals and organizations to advocate for equity, diversity and inclusion, especially as its work in developing countries mandates a constant application of these principles and practices. Our board discussions were led by individual board members and covered their wide variety of experiences. These discussions were especially guided by our board members, Dr. Everton Gooden and Dr. Anthony Brissett, along with the assistance of Professor Amoaba Gooden, Vice-President of the Division of Diversity, Equity and Inclusion at Kent State University.

The annual fundraising event, Chrysalis 2022, was held on June 1 at The Carlu. It was highlighted by Dr. Jeremy Warner's presentation of the Foundation's work at the Kirtipur Cleft and Burn Hospital in Kathmandu, Nepal. More than 240 friends of Face the Future were present, including many members of the Department of OHNS. Over \$130,000 was raised to support both established and proposed new missions.





Dates have been set and planning is well underway to resume Face the Future missions to Kathmandu in January 2023. This mission will focus on the acute care of burn patients, nasal and facial reconstruction, microtia, upper extremity reconstructive surgery and facial nerve reanimation. The 20 member missions to Kigali, Rwanda are being replaced in 2023 by several smaller missions of about six team members, each of which will focus on specific areas of need. The first will be led by Dr. Andres Gantous in February and will highlight nasal reconstruction. Subsequent teams will provide hands-on microvascular surgical experience for three new young consultants and three new residents. Dr. Marco Caminiti, assistant professor and Graduate Program Director for Oral and Maxillofacial Surgery at the University of Toronto, will lead a team to the Black Lion Hospital in Addis Ababa in April to manage complex congenital, traumatic and post-ablative facial conditions.

Relationship development and planning has also begun for potential missions to Ivano-Frankivsk, Ukraine and Maputo, Mozambique. It is expected these missions will take place in the first half of 2023.

The last two years, unfortunately, have significantly increased the surgical burden in the global healthcare village. This has provided us great challenges, but also now creates fresh opportunities. Face the Future looks forward to recommencing its established missions and developing new missions to treat patients in great need and educate healthcare providers in developing countries in the coming year.

Northern Ontario Outreach Program

Drs. Paolo Campisi, Vincent Lin and Eric Monteiro

We continue our semi-annual trips to Sioux Lookout Ontario. Drs. Campisi, Monteiro and Lin made two trips this year in March 2022 and September to the Meno-Ya-Win Health Centre. In the March 2022 trip, Dr. Chantal Li joined them for the week and in the September 2022 trip, Drs. Grace Yi and Gianluca Sampieri joined the faculty.

Typically, we arrive on Sunday evening after a long drive from either Thunder Bay or Winnipeg. We start early Monday and usually by Friday afternoon we will have seen about 250 patients and performed about 10-15 cases. Surgical cases include endoscopic tympanoplasty, FESS, minor lumps and bumps, rhinoplasty, septoplasty, tonsillectomy and myringotomy and tube placement. We are fortunate to have full access to audiology as many of our patients are flown in for their visits with us.

The range of pathology seen in Sioux Lookout demonstrates the association between social determinants of health and poor outcomes. It also highlights that even in a first world nation like Canada, are pockets of extreme poverty and lack of reliable access to many basic amenities like suitable housing, fresh water and health care.

We will continue our future trips and the hospital is building a new outpatient clinic that will allow more patients to be efficiently assessed and treated so we look forward to building upon our longstanding relationship between the department and Sioux Lookout.



The background is a solid dark blue color. Overlaid on this is a grid of lighter blue lines that form a perspective of a curved surface, possibly a dome or a sphere, receding into the distance. The grid lines are more pronounced in the lower half of the image and fade towards the top.

Publications

BOOKS

ASK1 is a Novel Molecular Target for Preventing Aminoglycoside Induced Hair Cell Death. Ogier, JM., et al. (2022). Journal of Molecular Medicine. 100: 797-813. Journal Cover.

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Hearing Function, Degeneration, and Disease: Spotlight on the Stria Vascularis. Thulasiram MR, Ogier J and Dabdoub, A. (2022). Frontiers in Cell and Developmental Biology. 10:841708.

Pediatric Head and Neck Textbook – Pathology, Surgery and Imaging
Springer Science. Editors: Campisi P, Ngan B, Forte V, Taylor G. Published 2021

Pediatric Head and Neck Textbook: Pathology, Surgery and Imaging. (31 Chapters); Editors: P. Campisi, V. Forte, B. Ngan, G. Taylor. Publisher: Springer Nature Switzerland AG, Gewerbestrasse 11, 6330 Cham.

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Acta Otorrinolaringol Esp (Engl Ed). 2022 May-Jun;73(3):164-176. PMID: 35577432.

ACTA Otorhinolaryngologica Italica

Sahovaler A, Gualtieri T, Lee JJW, Eskander A, Deutsch K, Rashid S, Orsini M, Deganello A, Davies J, Enepekides D, Higgins K.

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American Journal of Otolaryngology

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Am J Otolaryngol. 2022 Mar-Apr;43(2):103352. Epub 2021 Dec 24. PMID: 34972006.

American Journal of Respiratory and Critical Care Medicine

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Metatypical Adenoid Cystic Carcinoma: A Variant Showing Prominent Squamous Differentiation with a Predilection for the Sinonasal Tract and Skull Base.

Am J Surg Pathol. 2022 Jun 1;46(6):816-822. Epub 2021 Dec 6. PMID: 34864773.

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COVIDSurg Collaborative; GlobalSurg Collaborative.

SARS-CoV-2 Infection and Venous Thromboembolism After Surgery: An International Prospective Cohort Study.

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Critical Quality and Readability Analysis of Online Patient Education Materials on Parotidectomy: A Cross-Sectional Study.

Ann Otol Rhinol Laryngol. 2022 Dec;131(12):1317-1324. Epub 2022 Jan 6. PMID: 34991334.

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Purcell PL, Deep NL, Waltzman SB, Roland JT Jr, Cushing SL, Papsin BC, Gordon KA.

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Endoscopic Treatment of Sellar Arachnoid Cysts via a Simple Cyst-Opening Technique: Long-Term Outcomes from a Single Center.

World Neurosurg. 2022 May;161:e625-e634. Epub 2022 Feb 23. PMID: 35217229.

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Presentations

Visiting Professorships and Invited Lectures

INTERNATIONAL MEETINGS

AFRICA

HUANG, S

2022 Mar

Invited Speaker. IMRT for Head and Neck Cancer: IMRT delivery. Ethiopia Radiotherapy Teaching Course (Virtual).

AUSTRALIA

HIGGINS, K

2022 Jun

Invited Lecturer. Australian Society of Otolaryngology Head and Neck Surgery 72nd Annual Scientific Meeting.

BRAZIL

CUSHING, S

2022 Jun

Invited Panellist. Diagnosis and Management of Hearing Loss. ABORL-CCF VII Combined Meeting Four Otolaryngology Meeting 2022. Brazil. Moderator: Vassoler T. Panellist(s): Cushing SL, Guimaraes A, Rosito L, Kurk M.

2022 Jun

Invited Panellist. The Child with Vertigo, Exams, Diagnoses and Conducts. ABORL-CCF VII Combined Meeting Four Otolaryngology Meeting 2022. Brazil. Moderator: Duarte J. Panellist(s): Cushing SL, Senz P.

CHINA

HUANG, S

2022 Feb

Invited Speaker. Head and Neck Cancer Contour Workshop. Hong Kong Radiation Oncology Commissioned Training: Management of Head and Neck Cancer in Modern Era.

2022 Feb

Invited Speaker. Image Guidance in Head and Neck Cancer Radiotherapy. Hong Kong Radiation Oncology Commissioned Training: Management of Head and Neck Cancer in Modern Era.

2022 Feb

Invited Speaker. Re-irradiation Following Recurrence of Head and Neck Cancer. Hong Kong Radiation Oncology Commissioned Training: Management of Head and Neck Cancer in Modern Era.

2022 Feb

Invited Speaker. Head and Neck Cancer Overview: Epidemiology, Etiology, Histology, and Staging. Hong Kong Radiation Oncology Commissioned Training: Management of Head and Neck Cancer in Modern Era.

2022 Feb

Invited Speaker. Site-specific Head and Neck Cancer Management: Sinonasal Malignancies. Hong Kong Radiation Oncology Commissioned Training: Management of Head and Neck Cancer in Modern Era.

INTERNATIONAL MEETINGS (continued)

- 2022 Feb Invited Speaker. Site-specific Head and Neck Cancer Management: Nasopharyngeal Carcinoma. Hong Kong Radiation Oncology Commissioned Training: Management of Head and Neck Cancer in Modern Era.
- 2021 Dec Invited Speaker. Extranodal Extension: A Promising Risk Stratification Factor in Head and Neck Cancer. The Fifth International Head and Neck Cancer Symposium. Sun Yat-sen University Cancer Center, Guangzhou, China.
- 2021 Nov Invited Speaker. Radiation Therapy Education in Canada. The Fifth International Symposium on Specialist Education and Advances in Radiation Oncology: From Discovery to Innovation: A Five-year Legacy of International Oncology Collaboration, Shenzhen, China.

COLOMBIA**GANTOUS, A**

- 2021 Jul Invited International Faculty. Dorsal Grafts: Which and When? Congreso de Otorrinolaringología ACORL 60 años. Cartagena, Colombia.
- 2021 Jul Invited International Faculty. Preservation Rhinoplasty: Is it Easy to Change? Congreso de Otorrinolaringología ACORL 60 años. Cartagena, Colombia.
- 2021 Jul Invited International Faculty. The Spare Roof Technique. Congreso de Otorrinolaringología ACORL 60 años. Cartagena, Colombia.
- 2021 Jul Invited International Faculty. Incisionless Otoplasty. Congreso de Otorrinolaringología ACORL 60 años. Cartagena, Colombia.

EGYPT**JAMES, A**

- 2022 Jun Keynote Lecture. Preventing Recurrence of Pediatric Cholesteatoma: What's the Best Operation? 37th AlexORL Conference, Alexandria, Egypt.
- 2022 Jun Invited Speaker. Endoscopic Ear Surgery in Pediatric Age Group: Pearls and Pitfalls. 37th AlexORL Conference, Alexandria, Egypt.
- 2022 Jun Keynote Lecture. Endoscopic Cholesteatoma Surgery: Where is the Posterior Limit? 37th AlexORL Conference, Alexandria, Egypt.
- 2022 Jun Invited Speaker. Endoscopic Ear Surgery in Children. 37th AlexORL Conference, Alexandria, Egypt.
- 2022 Jun Panellist. Facial Nerve. 37th AlexORL Conference, Alexandria, Egypt. James AL, Omran A, Badr El-din M, Bernadeschi D, Bassiouni M. Moderator: El-Garem H.

INTERNATIONAL MEETINGS (continued)

FRANCE

GANTOUS, A

2021 Sept Faculty. Rhinoplasty in Granulomatosis. European Academy of Facial Plastic Surgery Nice 2021. Nice, France.

2021 Sept Faculty. Managing the Alar-Columellar Relationship. European Academy of Facial Plastic Surgery Nice 2021, Nice, France.

2021 Sept Faculty. Incisionless Otoplasty: What Have I Learned? European Academy of Facial Plastic Surgery Nice 2021. Nice, France.

DE ALMEIDA, J

2021 Dec Invited Speaker. Tongue Base Mucosectomy: How I do it. 4th Robotic Surgery Conference: European Head and Neck Society. Paris, France.

2021 Dec Invited Speaker. Future of Clinical Research for Transoral Robotic Surgery. 4th Robotic Surgery Conference: European Head and Neck Society. Paris, France.

2021 Dec Session Moderator. Reconstruction after TORS. 4th Robotic Surgery Conference: European Head and Neck Society. Paris, France.

PAPSIN, B

2021 Nov Invited Faculty. Complicated Cochlear Reimplantation. European Society of Pediatric Otorhinolaryngology, Marseille, France.

INDIA

GORDON, K

2021 Nov Invited Keynote Speaker. Memory and Learning Challenges in Children with Poor Binaural Hearing, Cochlear Implant Group India Conference (Virtual).

2021 Nov Invited Keynote Speaker. Outcome Measures of Cochlear Implants, All India Institute of Speech and Hearing Audiology Convention (Virtual).

IRELAND

HIGGINS, K

2021 Presenter. Aggressive Growth and Invasion of Sclerosing Basal Cell Carcinoma of the Eyelid: A Case Report. International Conference for Healthcare and Medical Students 2021. Kassandra Gressmann, Elizabeth Kafes, Kevin M. Higgins.

INTERNATIONAL MEETINGS (continued)

ITALY

ADAMSON, P

2022 Mar Invited Speaker. 1) Keynote: Patient Selection and Analysis for Rhinoplasty; 2) Session Chair (Video); 3) Understanding the Basic Steps and the Sequence in a Clinical Standard Case; 4) Masterclass. The Skin-Soft Tissue Envelope in Rhinoplasty; 5) Mastering the Nasal Tip: Understanding and Applying The M-Arch Model; 6) Managing the Lower Lateral Cartilage, Alar Base Surgery and Refinements; 7) Traditional Support to the Nasal Tip; 8) Combining Lateral Crural Overlay and Lateral Crural Strut Graft; 9) The Infratip Lobule and Buttress Graft; 10) Lower Lateral Cartilage Malposition; 11) The Inter-crural Strut Graft; 12) The Dangerous Dozen-Psychologically Dangerous Patients; 13) Ethical Standards in Ethical Marketing. The 7th Bergamo Open Rhinoplasty Course, Bergamo, Italy.

LIN, V

2021 Sept Invited Speaker. Innovations in Hearing Loss Restoration. Think-Tank in Otolaryngology ENT Innovations and Pearls. Rome, Italy.

PAPSIN, B

2021 Oct Invited Faculty 1) Understanding the Impact of cCMV on Hearing in 3 D's and 2) Hearing, Balance and Asymmetric Labyrinthine Deficits in cCMV. 2nd Congenital CMV Conference, Rome Italy.

SAUDI ARABIA

PAPSIN, B

2021 Jul Invited Faculty. A New Implant for Improving Hearing Performance for Single Sided Deafness & Mixed or Conductive Hearing Loss. Cochlear Corporation Workshop and Webinar on OSIA Bone conduction Implants. Riyadh, Saudi Arabia.

SPAIN

CUSHING, S

2022 May Invited Panellist. Vestibular Assessment in Children. XXXI Barany Society Meeting. Madrid Spain. Moderator(s): Widdershoven J, Panellist(s): Maes L, Cushing SL, Wiener-Vacher S, Widdershoven J.

SWITZERLAND

GANTOUS, A

2022 Mar Faculty. Preservation Rhinoplasty, Is it Worth the Change? The European Ski Meeting. Klosters, Switzerland.

2022 Mar Faculty. Otoplasty, My Preferred Technique. The European Ski Meeting. Klosters, Switzerland.

INTERNATIONAL MEETINGS (continued)

UNITED ARAB EMIRATES

GORDON, K

2022 Mar

Invited Speaker. 1) Neuroplastic Consequences of Asymmetric Hearing in Development; 2) Functional Implications of Disrupted Spatial Hearing in Children; 3) Cochlear Implantation in Children with Single Sided Deafness; 4) KEYNOTE: The Importance of Consistent Daily Cochlear Implant Use in Children; 5) Bilateral Cochlear Implant Programming: Why and How? 6) Benefits of the New Osia Bone Conduction Device in Children. 2nd Arab Cochlear Implant Conference, Dubai UAE.

UNITED KINGDOM

DE ALMEIDA, J

2021 Nov

Invited Speaker. FIND Trial: Management of the Unknown Primary. ENT UK Head and Neck Unknown Primary Conference. Leeds/London, United Kingdom.

2021 Nov

Invited Speaker. Health Utilities: Integrating Quality of Life into Medical Decision Making for Head and Neck Cancer. Quality of Life in Head and Neck Cancer: 12th International Conference. Liverpool, United Kingdom.

GORDON, K

2022 Jun

Invited Speaker. Can Two Cochlear Implants Promote One Binaural System in Children? Royal Society Meeting, Eastwood Hall, United Kingdom.

JAMES, A

2021 Sept

Keynote Lecture. John Evans Memorial Lecture: Innovations in Endoscopic Ear Surgery in Children. British Association of Paediatric Otorhinolaryngology Annual Meeting. Birmingham, UK.

PAPSIN, B

2021 Sept

Keynote Speaker. Restoration of Audition: The Role of Bone. Implantable Acoustic Devices Conference (Aesculap Academia), Oxford, England.

UNITED STATES

CHEN, J

2021 Sept

Guest Professor Lecture. The Ontario Cochlear Implant Program-Lessons Learned Within a Public Healthcare System. Harvard Medical School, Massachusetts General Hospital (MEEI).

CUSHING, S

2021 Dec

Invited Panel Chair. Optimizing Communication Through Early Intervention. Moderators: Cushing SL, Novak B. Panellist(s): Papaioannou V, Liberman G, Mickelson S. SENTAC Meeting. Phoenix, AZ.

DABDOUB, A

2021

Novel Therapeutic and Delivery Strategies for Primary Auditory Neuron Degeneration. Kresge Hearing Research Institute, University of Michigan. Ann Arbor MI.

INTERNATIONAL MEETINGS (continued)

2021 The Blood-labyrinth Barrier and Using Focused Ultrasound to Modulate it. Grand Rounds. University of Maryland, Department of Otolaryngology. Baltimore MD.

2021 The Stria Vascularis and Blood Labyrinth Barrier. Biology of the Inner Ear. Distinguished Scholar Lecture. Woods Hole, MA.

DE ALMEIDA, J

2022 Dec Panellist. Oropharyngeal Cancer I. Case Discussions. Moderator: Chris Holsinger. Panellists: Bhisham Chera, Daniel Ma, John de Almeida, Uma Duvvuri, Nabil Saba, Sandeep Samant. Multidisciplinary Head and Neck Symposium. Lurie Cancer Center, Northwestern School of Medicine. Chicago IL.

2022 Dec Panellist. Oropharyngeal Cancer II. Case Discussions. Moderator: Jason Newman. Panellists: Barbara Burtness, John de Almeida, Jochen Lorch, Eric Nesbit, Sidharth Puram, Wade Thorstad. Multidisciplinary Head and Neck Symposium. Lurie Cancer Center, Northwestern School of Medicine. Chicago IL.

2022 Dec Panellist. Unknown Primary. Case Discussions. Moderator: Urjeet Patel. Panellists: Borislav Alexiev, Barbara Burtness, John de Almeida, Uma Duvvuri, Chris Holsinger, Wade Thorstad. Multidisciplinary Head and Neck Symposium. Lurie Cancer Center, Northwestern School of Medicine. Chicago IL.

2022 Dec Invited Speaker. FIND Trial: Finding and Identifying Primary Oropharyngeal Cancers in Patients with Neck Disease, a Phase 2 Trial. Multidisciplinary Head and Neck Symposium. Lurie Cancer Center, Northwestern School of Medicine. Chicago IL.

2022 Dec Invited Speaker. Management of the Contralateral Neck in Oropharyngeal Cancer. Multidisciplinary Head and Neck Symposium. Lurie Cancer Center, Northwestern School of Medicine. Chicago IL.

2022 Jul Presenter. SPARE Trial: Sparing Pharyngeal Radiation with Transoral Lingual Tonsillectomy vs. Selective Pharyngeal RT: A Phase II randomized trial. NRG Summer Meeting 2022: Head and Neck Surgical Sub-committee meeting. Chicago, IL.

2022 Jul Presenter. SELECT Trial: SPECT-CT guided elective contralateral neck treatment in patients with lateralized oropharyngeal cancer: a phase III randomized controlled trial. NRG Summer meeting 2022: Head and Neck Surgical Sub-committee meeting. Chicago, IL.

DIMITRIJEVIC, A

2022 Feb Online Assessment of Working Memory and Speech Perception: Relations to Quality of Life in Cochlear Implant Users. Association for Research in Otolaryngology. San Jose, CA.

ENEPEKIDES, D

2022 Feb Panel Moderator. Cancers of the Salivary Glands. Multidisciplinary Head and Neck Cancers Symposium, ASTRO – American Society for Radiation Oncology, Phoenix, AZ.

ESKANDER, A

2022 Sept Invited Panellist. HPV, is it in your DNA? Head and Neck Cancer Updates for the General Otolaryngologist. AAO-HNSF 2022 Annual Meeting & OTO Experience. Philadelphia, PA.

INTERNATIONAL MEETINGS (continued)

2022 Feb Invited Presenter. Skull Base Osteomyelitis. North American Skull Base Society. Phoenix, AZ.

2021 Sept Invited Faculty and Panellist. Mandibular and Maxilla Defects. Head and Neck Microvascular Fellow Bootcamp. Dayton, OH.

GANTOUS, A

2022 May Faculty and Course Co-Chair. Dorsal Augmentation Panel. Advances in Rhinoplasty – Facial Rejuvenation, Master the Techniques. Miami, FL.

2022 May Faculty and Course Co-Chair. Dorsal Grafts, Which and When. Advances in Rhinoplasty – Facial Rejuvenation, Master the Techniques. Miami, FL.

2021 Nov Faculty. Otoplasty: My Preferred Techniques. Global Aesthetics Conference 2021. Miami, FL.

2021 Nov Faculty. Management of the Long Nose. Global Aesthetics Conference 2021. Miami, FL.

2021 Nov Faculty. The Social Concept of Beauty. Global Aesthetics Conference 2021. Miami, FL.

GORDON, K

2022 Apr Invited Keynote Speaker. Two Ears, One Brain: Identifying Benefits and Remaining Limitations of Cochlear Implant Use in Children. Day with the Experts on Cochlear Implants, University of Wisconsin-Madison. Audience: Patients and others interested in cochlear implantation.

2022 Feb Invited Speaker, Effects of COVID-19 Lockdowns on Real World Listening Environments in Children Using Cochlear Implants: Evidence from Datalogging Systems, 45th Mid-Winter Meeting of the Association for Research in Otolaryngology, San Jose CA.

HUANG, S

2022 Jun Invited Speaker. "On the Nose": Risk-tailored Therapy for Nasopharyngeal Carcinoma (Discussant for Abstracts 6000, 6001, and 6002). 2022 American Society of Clinical Oncology Annual Meeting. Chicago, IL.

IRISH, J

2022 Feb Moderator. Development of Survivorship Programs. ASCO Multidisciplinary Head and Neck Cancers Symposium. Phoenix, AZ.

LIN, RJ

2022 Apr Moderator. Basic Science in Laryngology. Annual Meeting of American Laryngological Association at COSM, Dallas, TX.

URUGUAY

GORDON, K

2022 Apr Invited Keynote Speaker. 1) Effects of Age of Cochlear Implantation in Children with Short Durations of Single Sided Deafness; 2) Developmental Plasticity in Children with Hearing Loss in one or Both Ears. GICCA 2022 meeting, Punta del Este, Uruguay.

INTERNATIONAL MEETINGS (continued)**VIRTUAL****ADAMSON, P**

- 2022 May Invited Speaker. The Bangalore FRCSIT Facial Plastic Surgery Course. Life Lessons Learned as a Facial Plastic Surgeon, IFFPSS International Fellowship Programs (Virtual).
- 2021 Nov Invited Speaker. Management of the Dissatisfied Patient, Marketing and Reputation Management. The Rhinoplasty Society of Europe (Virtual).
- 2021 Aug Invited Speaker. Selection and Management of the Aesthetic Patient. The Global Summit of Facial Plastic Surgery. Sponsored by the International Federation of Facial Plastic Surgery Societies (Virtual).

CAMPISI, P

- 2021 Nov Invited Speaker. Intractable Aspiration: Surgical Management. European Society of Pediatric Otorhinolaryngology Annual Meeting. Marseille, France (Virtual).
- 2021 Nov Invited Speaker. Recurrent Respiratory Papillomatosis: Evidence of the Beneficial Effects of HPV Vaccination on Reducing the Incidence and Prevalence. 34th International Papillomavirus Conference. Toronto, ON (Virtual).
- 2021 Sept Course Co-Instructor. Recurrent Respiratory Papillomatosis: Update 2021, Part I. American Academy of Otolaryngology-HNS Annual Mtg and OTO Expo. Los Angeles, CA. Presenter(s): P. Campisi, C. Derkay (Virtual).
- 2021 Jul Invited Speaker. Pediatric Head and Neck Tumours Causing Airway Compromise and the Role of Fetal and Perinatal Intervention. Bambino Gesù Hospital, ENT & Friends. Rome, Italy (Virtual).

CHAN, Y

- 2021 Aug Invited Speaker. Biologics in the Upper Airways Update. EAACI International Conference 2021 (Virtual).

CUSHING, S

- 2022 Jun Keynote Speaker. The Balance Evaluation on Hearing Impaired Children. ABORL-CCF VII Combined Meeting Four Otology Meeting 2022. Brazil Presenter(s): Cushing SL (Virtual).
- 2022 Jun Keynote Speaker. Development Impact of Cochleovestibular Loss in Children: How Cochlear Implants Help and where they Fall Short. University of Buffalo Grand Rounds (Virtual).
- 2022 May Invited Speaker. Implants for Unilateral Hearing Loss. 16th International Montreal Pediatric Otolaryngology Congress. Montreal (Virtual).
- 2022 Mar Invited Speaker. Decibel Therapeutics GJB2 Symposium. Genotype/Phenotype (Virtual).
- 2022 Mar Invited Speaker. Pediatric Considerations in Osia Surgery. OSIA Surgical Symposia (Virtual).

INTERNATIONAL MEETINGS (continued)

- 2022 Mar Invited Symposia Moderator. Decibel Therapeutics GJB2 Symposium. Panellist(s): Amr S, Shearer E, Mommano F, Fitzpatrick D, Riggs J, Lapuerta P (Virtual).
- 2022 Mar Invited Panellist. Osia Surgical Tips and Tricks Online Seminar. Panellist(s): Cushing SL, Ontivero P, Jaramillo R, Graupp M, Miller M, Lenarz T, Herzog J, Liu YCC, Gawecki W, Suji RTK (Virtual).
- 2022 Jan Keynote Speaker. What Cochlear Implants Have Taught Us About the Developing Vestibular System. Israeli Speech, Hearing & Language Association (Virtual).
- 2022 Jan Invited Speaker. Balance in Children After Cochlear Implantation Presentation. Advanced Vestibular Physical Therapist Certification Program (Virtual).
- 2021 Nov Invited Speaker. Malaysia Cochlear Implant Symposium 2021. The Effects of Cochlear Implantation on Vestibular Function (Virtual).
- 2021 Nov Invited Panellist. Vertigo in Children: Systematic Radiologic Assessment? Audiology Workshop - Vertigo in Children. ESPO Virtual Meeting Marseille. Panellist(s): Cushing SL, Brodsky J, Doodge I, Wiener-Vacher S, Blanchet C.
- 2021 Oct Invited Panellist. Virtual Regional Training Day for Registrars on Paediatric Otology (UK). Moderator(s): Sharma S. Panellist(s): Cushing SL. (Virtual).
- 2021 Sept Invited Panellist. Panel P8 Bone Conduction and Middle Ear Implants. EAONO. Moderator(s): Shaida A. Panellist(s): Cushing SL, Jaydip R, Ramsden J, Donnelly N, Ellis W, Hol MKS (Virtual).
- 2021 Jul Invited Panellist. Vestibular Testing: Vestibular Testing in Congenital Hearing Loss and Cochlear Implant. ASPO Summer Meeting. Panellist(s): Brodsky J, Traboulsi H, O'Reilly RC, Field E, Gurberg, J, Cushing SL (Virtual).
- 2021 Jul Invited Panel Chair/Moderator. Bone Conduction Hearing Aids: Benefit vs. Burden. ASPO Summer Meeting. Panellist(s): Cushing SL, O'Reilly RC, Sie K (Virtual).
- 2021 Jul Invited Mentor. Lunchtime Mentorship Session. ASPO Summer Meeting. Panellist(s): Cushing SL (Virtual).
- 2021 Jul Invited Mentor. Lunchtime Mentorship Session. ASPO Summer Meeting. Panellist(s): Cushing SL (Virtual).

DE ALMEIDA, J

- 2022 Jun Moderator. Innovations in imaging, diagnosis, and surgery. International Federation of Head and Neck Oncologic Societies, Western Hemisphere, Virtual World-Tour.
- 2022 Feb Presenter. SPECT-CT guided treatment of the contralateral neck in lateralized oropharynx cancer. NRG surgical sub-committee meeting, Virtual.
- 2021 Jul Invited Speaker. Mucosal Malignancy Section Meeting. American Head and Neck Society Meeting (Virtual).

INTERNATIONAL MEETINGS (continued)**ENEPEKIDES, D**

2021 Jul Invited Speaker. Post-Oncologic Reconstruction of the Parotid and Facial Nerve. Management of Salivary Gland Malignancy. 10th International Conference on Head and Neck Cancer (Virtual).

ESKANDER, A

2022 Oct Invited Speaker. Symposium 4: Safety and Functional Outcomes of TORS - Perioperative Mortality Risk in Patients Undergoing Transoral Robotic Surgery for T1-T2 Oropharyngeal Squamous Cell Carcinoma: A National Cancer Database Study. 12th International Robotic Surgery Symposium (Virtual).

2022 Jun Invited Presenter. Complex Bone Reconstruction: Midface, Maxilla, Mandible. AHNS Virtual Tumour Board.

GANTOUS, A

2021 Nov International Faculty. Technical Approach to Upper and Lower Blepharoplasty. XXXI Mexican Congress of Rhinology and Facial Plastic Surgery (Virtual).

2021 Oct Faculty. Dorsal Grafts: Which and When? American Academy of Facial Plastic and Reconstructive Surgery Annual Meeting. (Virtual).

2021 Oct Faculty. Challenges in Rhinoplasty Panel: Pre and Postoperative Management of the Thick-Skinned Rhinoplasty Patient. American Academy of Facial Plastic and Reconstructive Surgery Annual Meeting (Virtual).

2021 Aug Faculty. Dorsal Grafts: Which and When? Global Summit of Facial Plastic Surgery. (Virtual).

IRISH, J

2021 Oct Panellist/Speaker. Thyroid Cancer Quality Care: Moving from "Expert Opinion" to Implementation: Review of the Canadian Experience. American Academy of Otolaryngology-Head and Neck Surgery Instructional Course. Los Angeles, CA (Virtual).

2021 Sept Panellist/Speaker. CORLAS: Helping Canadian ENT-HNS Build Bridges with the World. Making Impact with Health Policy. Canadian Otolaryngology-Head and Neck Surgery Annual General Meeting (Virtual).

2021 Aug Keynote Speaker. The Era of Nanotechnology: How Will Head and Neck Surgery Change in the Future? Thyroid Nodules and Cancer: Current Concepts, The Tsunami After the Earthquake: The Effects of COVID-19 on Cancer Services in Canada, Using Performance Data to Improve Cancer Care: The Ontario Cancer Care Experience. The Australian and New Zealand Head and Neck Cancer Society Conference (Virtual).

JAMES, A

2021 Jul Keynote Lecture. Preventing Recurrence of Pediatric Cholesteatoma: What's the Best Operation? Royal Society of Medicine Otology Section Visiting Professor, London UK (Virtual).

2021 Jul Panellist. Endoscopic Ear Surgery. American Society Pediatric Otolaryngology Summer Meeting (Virtual).

PAPSIN, B

2022 Mar Keynote Speaker. Functional Reconstruction of Hearing in Patients with Microtia and Aural Atresia. 3rd International Congress of the International Society of Auricular Reconstruction, Edinburgh UK (Virtual).

INTERNATIONAL MEETINGS (continued)

WITTERICK, I

- 2022 Apr Co-Moderator. MTC and RET. World Congress on Thyroid Cancer 2022 (Virtual).
- 2021 Oct Co-Moderator. Cancer Ablation in 2021 – RFA, Laser and Alcohol Ablation. World Congress on Thyroid Cancer 2021 (Virtual).
- 2021 Sept Invited Speaker and Discussant. Leadership: What is in it for me? 14th International Montreal Pediatric Otolaryngology Congress (Virtual).
- 2021 Feb Management Protocol for Intra-operative Internal Carotid Artery Injury: A Modified Delphi Method and Multidisciplinary Expert Panel. North American Skull Base Society. Presenter(s): Hamour AF, Laliberte F, Padhye V, Monteiro E, Lee, JM, Witterick IJ, Vescan A (Virtual).

NATIONAL MEETINGS

MANITOBA

LE, T

- 2021 Invited Speaker. Therapeutic Delivery to the Inner Ear. Department of Otolaryngology Head & Neck Surgery Grand Round, University of Manitoba, Winnipeg, MB.

QUEBEC

PROPST, E

- 2022 May Invited Speaker. Advanced Airway Surgery for OSA in Children. 16th Annual International Montreal Pediatric Otolaryngology Congress.
- 2021 Sept Invited Speaker. Length of the Cricoid and Trachea in Children: Predicting Intubation Depth to Prevent Subglottic Stenosis. 14th International Montreal Pediatric Otolaryngology Congress: Festschrift in honour of Dr. Melvin Schloss.

VIRTUAL

CAMPISI, P

- 2021 Sept Invited Speaker. Fetal Intervention: The Next Frontier in Pediatric Otolaryngology. 14th International Montreal Pediatric Otolaryngology Congress (Festschrift in Honour of Dr. Melvin D. Schloss). Montreal, QC (Virtual).
- 2021 Sept Panel Moderator. Differentiated Thyroid Carcinoma in Children: Evolution of a Nuanced Pediatric Approach. Canadian Society of Otolaryngology – Head & Neck Surgery Annual Meeting. Campisi P, Wasserman J, Johnson L, Topple J (Virtual).
- 2021 Sept Presenter. Upper Aerodigestive Tract Endoscopy. Canadian Society of Otolaryngology – Head & Neck Surgery Annual Meeting. Campisi P, Chan Y, Felton M, Nguyen L (Virtual).

NATIONAL MEETINGS (continued)**CHAN, Y**

2021 Sept Workshop Supervisor and Moderator. Medical Students Session: Beyond Work of Mouth – Debriefing and Deconstructing OHNS for Prospective Applicants. Canadian Society of Otolaryngology 75th Meeting (Virtual).

2021 Sept Workshop Supervisor and Moderator. Resident Session Starting Practice. Canadian Society of Otolaryngology 75th Meeting (Virtual).

CUSHING, S

2022 Jan Invited Speaker. Unilateral Hearing Loss in Children and its Management. Journee Etudiante en Audiologie. Montreal (Virtual).

2022 Jan Invited Speaker. Pediatric Otolaryngology. Canadian Pediatric Review Program. (Virtual).

DE ALMEIDA, J

2022 Sept Panel Moderator. SELECT Trial – Surgical Credentialing Workshop. John de Almeida, Ali Hosni, Chris Yao, Doug Chepeha, Apostolos Christopoulos, Michael Au, Mirko Kolarski, Tony Eskander. Canadian Society of Otolaryngology, Annual Meeting, Vancouver, BC (Virtual).

ESKANDER, A

2021 Nov Invited Speaker. Staging of HN Cancer What I Need to Know. Canadian Neuroradiology Review Course – Head and Neck Imaging Day (Virtual).

GOODEN, E

2022 Sept Panellist. Equity Diversity and Inclusion in Otolaryngology. Canadian Society Otolaryngology Meeting (Virtual).

GORDON, K

2021 Nov Invited Speaker. Benefits of the New Osia Bone Conduction Device in Children. Canadian Academy of Audiology, Module 3: Implantable Hearing Technologies (Virtual).

GOULDING, G

2022 Mar Invited Speaker. Pediatric Cochlear Implantation at The Hospital for Sick Children. York University, Teacher of the Deaf & Hard of Hearing Program. Toronto, ON.

HASSOUNEH, B

2022 Jan Invited Speaker. COVID-19 for the Otolaryngologist: Update on Prevention and Management. Department of Otolaryngology-Head & Neck Surgery Grand Rounds. Winnipeg, MB.

LEE, J

2022 Oct Invited Speaker. Dupixent ENT National Advisory Board Meeting 2021, Sanofi Regeneron, Canada (Virtual).

MARTINO, R

2022 Apr Invited Speaker. Behavioural Swallowing Therapy for Patients with Head and Neck Cancer: Evidence of Benefit Related to What, When and How Much. Speech-Language & Audiology Canada (Virtual).

NATIONAL MEETINGS (continued)

- 2021 Aug Invited Speaker. Clinical Assessment of Dysphagia. Japanese World Dysphagia Symposium International Meeting (Virtual).
- 2021 Aug Invited Speaker. Dysphagia Assessment: Important Considerations. Japanese World Dysphagia Symposium International Meeting (Virtual).
- 2021 Jul Invited Speaker. Current Concepts in Speech and Swallowing Management: Advances in Dysphagia Management – Blitz of Innovations on the Horizon. American Head and Neck Society International Meeting (Virtual).
- 2021 Jul Invited Speaker. Improving Swallowing, Function and Quality of Life in Head and Neck Cancer Survivors. Milton Dance Symposium. American Head and Neck Society International Meeting (Virtual).
- 2021 Jul Current Concepts in Speech and Swallowing Rehab: Review of Case Scenarios. American Head and Neck Society International Meeting (Virtual).

SMILSKY, K

- 2022 Jan Invited Speaker. Cochlear Implantation and Single-Sided Deafness. Canadian Academy of Audiology (Virtual).
- 2022 Jan Invited Speaker. Cochlear Implants and Single Sided Deafness: An Easy Approach to Audiological Assessment. Audiology Online, Course #37345, Park L, Smilsky K, Franz D, Racey A, Dunn C (Virtual).

WITTERICK, I

- 2021 Sept Moderator. Pivoting to Virtual OHNS Care and Teaching. 75th Annual Meeting of the CSO-HNS. Presenters: Witterick IJ with Lazor J, Glover-Takahashi S and Leslie K (Virtual).
- 2021 Sept Moderator. Ultrasound Course. 75th Annual Meeting of the CSO-HNS. Presenters: Witterick IJ with Mandel S and Orloff. L (Virtual).
- 2021 Sept Presidential Address. 75th Annual Meeting of the CSO-HNS (Virtual).

PROVINCIAL/LOCAL MEETINGS

CHAN, Y

- 2022 Mar Invited Speaker. An Otolaryngology Primer for Dentists. York Region Practical Dental Study Club (Virtual).
- 2022 Mar Invited Speaker. Otolaryngology – How are We Improving the Lives of the Patients We Serve? University of Toronto Department of Otolaryngology – Head & Neck Surgery Grand Rounds (Virtual).
- 2022 Mar Panellist. Rhinology Case Presentations and Management Discussion. University of Toronto Department of Otolaryngology – Head & Neck Surgery Grand Rounds (Virtual).

PROVINCIAL/LOCAL MEETINGS (continued)

- 2022 Feb Invited Speaker. A Patient's Thyroid Surgery Journey with an Otolaryngologist. St. Michael's Hospital Family Medicine Grand Rounds (Virtual).
- 2021 Dec Invited Speaker. Common Otolaryngology Procedures & Surgical Post op Care. Fall SMH Nursing Education Week. St. Michael's Hospital.
- 2021 Oct Invited Speaker. Diversity & Discrimination in Otolaryngology. University of Toronto Department of Otolaryngology – Head & Neck Surgery Grand Rounds (Virtual).
- 2021 Oct Invited Speaker. Percutaneous Tracheostomy Complications: Prevention and Intervention. Respiratory Therapy Week St. Michael's Hospital RT Rounds.
- 2021 Sept Invited Speaker. A Patient's Thyroid/Parathyroid Surgery Journey with the Otolaryngologist. St. Michael's Hospital Division of Endocrinology Rounds (Virtual).

CUSHING, S

- 2022 Apr Invited Speaker. Hearing Loss and Vestibular Impairment in Children. Resident Core Teaching. Department of Otolaryngology, Head & Neck Surgery. University of Toronto (Virtual).
- 2022 Apr Invited Speaker. Hearing Loss and Implantable Devices. Fellowship Study Course, Department of Otolaryngology, Head & Neck Surgery. University of Toronto (Virtual).
- 2022 Feb Invited Speaker. "I have a child with hearing loss, what is the workup?". University of Toronto OtoUpdate 2022 (Virtual).
- 2022 Jan Invited Speaker. Pediatric Otolaryngology Head & Neck Surgery: Faculty of Medicine, Dept of Pediatrics. Hospital for Sick Children. Pediatric Royal College Review Lecture Series: Otolaryngology.

DABDOUB, A

- 2021 Biomarker Diagnostics and Hearing Protection. MedEL. Toronto, ON.

DAVIES, J

- 2021 Nov Invited Speaker. From the South to the North: Lessons Learned from Fellowship Training and a Discussion Regarding Transoral Robotic Surgery Perioperative Mortality. Department of Otolaryngology-Head & Neck Surgery Grand Rounds.

ENEPEKIDES, D

- 2021 Nov Invited Professor. Quality in Surgical Oncology ... by the numbers. 79th Annual Herbert S. Birkett Memorial Lecture, Dept. Otolaryngology-Head and Neck Surgery, McGill University, Montreal QC.

ESKANDER, A

- 2022 Jul Invited Presenter. Patient-Reported Symptom Burden, Emergency Department Use and Unplanned Hospitalization in Head and Neck Cancer: A Methods Approach to Improving Cancer Care in Ontario. Ontario Health – Cancer Care Ontario (Virtual).

PROVINCIAL/LOCAL MEETINGS (continued)

2022 May Invited Speaker. Symptoms, Treatment and the Patient Voice – How Can We Do Better? Head and Neck Cancer Patient Education Event. Sunnybrook Health Sciences Centre – The Odette Cancer Centre. Toronto, ON.

2022 May Invited Discussant. Julian F. Daza et al., Duminda N. Wijeyesundera. Improved Re-Estimation of Perioperative Cardiac Risk using the Surgical Apgar Score: A Retrospective Cohort Study. 48th Annual Gallie Day. Department of Surgery, University of Toronto. Toronto, ON.

2021 Oct Invited Panellist. The Future of Surgical Services at Michael Garron Hospital. Behind the Scenes – Michael Garron Hospital. Toronto, ON (Virtual).

GEVORGYAN, A

2022 Mar Panellist. Rhinology Case Presentations and Management Discussion. Grand Rounds. Department of Otolaryngology – Head & Neck Surgery, University of Toronto.

2021 Sept Cybersecurity Best Practices. What I learned during the COVID-19 Pandemic. OntarioMD – Digital Health and Virtual Care Day (Virtual).

HAZEN, M

2022 May Invited Presenter. Percy Ireland Academic Day. Developmental Effects of Concurrent Vestibular & Auditory Impairments in Childhood. Department of Otolaryngology – Head & Neck Surgery, University of Toronto.

HIGGINS, K

2022 Feb Panellist. Hobbies and Passions Outside of Medicine. Grand Rounds, Department of Otolaryngology-Head & Neck Surgery, University of Toronto.

2022 Panellist. Salivary Case Presentations and Management Discussion. Grand Rounds, Department of Otolaryngology-Head & Neck Surgery, University of Toronto.

LE, T

2021 Invited Speaker. Phase 1&2 Randomized controlled clinical trial: Intratympanic N-Acetylcysteine (NAC) injections for prevention of cisplatin-induced ototoxicity in H&N cancer patients. University Health Network Head & Neck Research Round, University of Toronto, Toronto, ON.

2021 Invited Speaker. Treatment of cisplatin ototoxicity. Hematology Grand Round, University of Toronto, Toronto, ON.

LEE, J

2022 Jun Invited Speaker. CRSwNP and Biologics: The Where and Why – Esp Anti-IL5? Ontario Allergy Group. Glaxo-Smith Kline, Ontario (Virtual).

2022 Jun Invited Speaker. An Interactive Case Based Discussion on the Use of Biologics to Treat CRSwNP. Windsor Otolaryngology Group, Sanofi Regeneron, Ontario (Virtual).

PROVINCIAL/LOCAL MEETINGS (continued)

- 2022 May Invited Speaker. An Interactive Case Based Discussion on the Use of Biologics to Treat CRSwNP. North York General Hospital Otolaryngology Group, Sanofi Regeneron, Toronto, ON.
- 2022 Apr Invited Speaker. The Division of Rhinology: What Have We Been Up to These Past 5 Years? University of Toronto Otolaryngology-Head & Neck Surgery Grand Rounds, Toronto, ON (Virtual).
- 2022 Mar Invited Speaker. CRSwNP and Biologics: The Where and Why – Esp Anti-IL5? Toronto Otolaryngology and Allergy Group. Glaxo-Smith Kline, Ontario (Virtual).
- 2022 Feb Invited Speaker. CRSwNP and Biologics: The Where, Why and How? Toronto Allergy Group. Sanofi Regeneron, Ontario (Virtual).
- 2021 Dec Invited Speaker. An Interactive Case Based Discussion on the Use of Biologics to Treat CRSwNP. Guelph/Cambridge Otolaryngology Group, Sanofi Regeneron, Ontario (Virtual).
- 2021 Sept Invited Speaker. An Interactive Case Based Discussion on the Use of Biologics to Treat CRSwNP. Brampton Respiriology Journal Club. Sanofi Regeneron, Brampton, ON (Virtual).

LIN, RJ

- 2022 May Invited Speaker. Common Laryngological Conditions. Department of General Internal Medicine, Unity Health Toronto St. Michael's Hospital, Toronto, ON.
- 2022 Apr Invited Faculty. Will the Real Laryngitis Please Stand Up? Department of Family and Community Medicine, University of Toronto, Toronto, ON.
- 2022 Feb Invited Panellist. Airway and Voice Sequelae from Prolonged Intubation. OtoUpdate 2022. Department of Otolaryngology-Head and Neck Surgery, University of Toronto. Toronto, ON.

LIN, V

- 2022 Oct Invited Speaker. Challenging Audiological Rehabilitation Cases: Review of Indications for Surgical Implantables. Canadian Academy of Audiology. Niagara Falls, ON.

MARTINO, R

- 2021 Nov Dysphagia Interventions for Patients with Head and Neck Cancer. ENT Fellows, University of Toronto, Toronto, ON.

WITTERICK, I

- 2021 Nov Invited Lecturer. Change Management in Skull Base Surgery. 2021 E. Harry Botterell Lectureship in Neurosurgery, Division of Neurosurgery, Department of Surgery, University of Toronto (Virtual).
- 2021 Nov Invited Lecturer. HPV Head & Neck Cancers: We Need a Control Strategy Now. Consortium for Infectious Disease Control (Virtual).

WOLTER, N

- 2022 May Invited Speaker. Surgical Management of Obstructive Sleep Apnea in Children. SickKids Pediatric Update Conference 2022.

PROVINCIAL/LOCAL MEETINGS (continued)**XU, J**

- 2021 Dec Invited Faculty: Challenges in Surgical Management of Adult Obstructive Sleep Apnea. University of Toronto Department of Otolaryngology-Head and Neck Surgery Grand Rounds. Toronto, ON.
- 2021 Dec Invited Speaker: Drug-Induced Sleep Endoscopy – Personalized Surgery for Obstructive Sleep Apnea. North York General Hospital Anesthesia Grand Rounds. Toronto, ON.
- 2022 Feb Invited Speaker: The Forgotten Snorers – Modern Surgical Management of Obstructive Sleep Apnea. North York General Hospital Surgery Grand Rounds. Toronto, ON.
- 2022 Mar Invited Speaker: Modern Sleep Surgery – Patient and Soft Tissue Procedure Selection. Peak Sleep Grand Rounds. Toronto, ON.
- 2022 Jun Invited Speaker: Modern Sleep Surgery – Patient and Soft Tissue Procedure Selection. Toronto East Respiriology Journal Club. Toronto, ON.

Papers Presented at Conferences/Society Meetings

INTERNATIONAL MEETINGS

SPAIN

CUSHING, S

- 2022 May Cushing SL, Papsin, BC, Gordon KA. Concepts and Physiological Aspects of Stimulating the Vestibular System. XXXI Barany Society Meeting, Madrid Spain.
- 2022 May Cushing SL, Papsin, BC, Gordon KA. Electrical Stimulation of the Vestibular System: Solutions in a Pediatric Population. XXXI Barany Society Meeting, Madrid Spain.

UNITED STATES

ADAMSON, P

- 2021 Sept The Failed Rhinoplasty Secondary to Lower Lateral Cartilage Malposition, American Academy of Facial Plastic and Reconstructive Surgery Annual Meeting, Las Vegas, Nevada (Virtual).

CAMPISI, P

- 2021 Nov Albornoz E, Rana M, Englesakis M, Tsang M, Hayes J, Nghiem J, Ameye L, Petre MA, Campisi P, Aoyama K. A Systematic Review of Clinical Practice Guidelines for perioperative Management of Tonsillectomy In children. 2022 Annual Meetings of the International Anesthesia Research Society, Association of University Anesthesiologists and Society of Critical Care Anesthesiologists, Honolulu, Hawaii, USA.

DIMITRIJEVIC, A

- 2021 Jul Bowen Xiu, Andrew Dimitrijevic. Podium: Electrophysiological correlates of subjective cognitive demand in cochlear implant users during listening to speech in noise. CIAP - Conference on Implantable Auditory Prostheses. Lake Tahoe, CA.
- 2021 Jul Prince P, Dimitrijevic A. Neural Correlates of Visual Stimulus Encoding and Verbal Working Memory that are Related to Speech-in-noise Perception in Cochlear Implant Users. CIAP - Conference on Implantable Auditory Prostheses. Lake Tahoe, CA.
- 2022 Feb Dimitrijevic A. Neural Correlates of Auditory Streaming in CI Users Are Related to Everyday Listening Experiences. Association for Research in Otolaryngology. San Jose, CA.
- 2022 Feb Prince P, Dimitrijevic A. Neural Correlates of Auditory Working Memory in CI Users. Association for Research in Otolaryngology. San Jose, CA.

ESKANDER, A

- 2022 Jun Fu R, Sutradhar R, Li Q, Hanna T, Chan KKW, Coburn N, Hallet J, Eskander A on behalf of Pandemic – Ontario Collaborative in Cancer Research.

INTERNATIONAL MEETINGS (continued)

Imaging and Physician Visits at Cancer Diagnosis: COVID-19 Pandemic Impact on Cancer Care. American Society of Clinical Oncology 2022 Annual Meeting. Chicago, IL.

- 2022 Jun Noel CW, Sutradhar R, Gotlib Conn L, Forner D, Chan WC, Fu R, Hallet J, Coburn NG, Eskander A. Predicting Emergency Department Use and Unplanned Hospitalization in Patients with Head and Neck Cancer: Development and Validation of a Machine Learning Algorithm. American Society of Clinical Oncology 2022 Annual Meeting. Chicago, IL.
- 2022 Apr Eskander A. Surgeon Thyroidectomy Case Volume Impacts Disease Free Survival in the Management of Well Differentiated Thyroid Carcinoma. Triological Society – Combined Sections Meeting, Dallas, TX.
- 2022 Mar Duncan K, Eskander A, Sutradhar R, Noel CW, Barabash V, Coburn N, Law CHL, Singh S, Myrehaug S, Chan W, Hallet J. The Association Between Patient-reported Symptom Burden and Urgent Healthcare Use in Patients Diagnosed with Neuroendocrine Tumours. Society of Surgical Oncology 2022 International Conference on Surgical Care. Dallas, TX.
- 2022 Mar Hirpara D, Eskander A, Coburn N, Sutradhar R, Barabash V, Chan W, Hallet J. Association Between Patient-reported Symptoms and Healthcare Resource Utilization: A First Step to Develop Patient-centered Value Measures in Cancer Care. Dallas, TX.
- 2022 Mar Zuckerman J, Sutradhar R, Haas B, Guttman M, Eskander A, Coburn N, Chesney T, Tillmann B, Zuk V, Mahar AL, Hsu A, Chan WC, Hallet J for the RESTORE-Cancer Group. Association Between Older Adult Hospital Volumes and Short-term Outcomes After Thoraco-abdominal Cancer Surgery. Society of Surgical Oncology 2022 International Conference on Surgical Care. Dallas, TX.

GORDON, K

- 2022 May Deep N, Roland T, Walzman S, Purcell P, Papsin BC, Gordon KA. Cochlear Implantation in Infants: Evidence of Safety. CI2022 DC Conference, Washington, DC.

HAZEN, M

- 2021 Jul Poster. The Effect of Ageing on Cervical Vestibular Evoked Myogenic Potentials (cVEMPs): A Retrospective Review. Conference on Implantable Auditory Prostheses (Virtual).

LEE, J

- 2021 Oct 2 Lee JJW, Hamour AF, Monteiro E, Lee JM, Vescan A. Chronic Rhinosinusitis Mouse Model. American Rhinologic Society Annual Meeting, Los Angeles, CA.

LIN, V

- 2022 May Lee M, Lin, V. Trends in Sociodemographic Disparities of Adult Cochlear Implantation in a Publicly Funded Healthcare System Over a 10-Year Period. CI2022 DC Emerging Issues in Cochlear Implantation. Washington DC.
- 2022 May Lee M, Lin, V. Use of Geographically Weighted Poisson Regression to Examine Spatial Varying Influences on Adult Cochlear Implantation Within a Universal Healthcare System. CI2022 DC Emerging Issues in Cochlear Implantation. Washington DC.

INTERNATIONAL MEETINGS (continued)

2022 May Bajin D, Lin, V. Cross-Modal Plasticity is Positively Correlated to Speech in Noise Performance in Cochlear Implant Users. CI2022 DC Emerging Issues in Cochlear Implantation. Washington DC.

MARTINO, R

2022 Apr de Almeida JR, Douglas CM, Hueniken K, Mirshams M, Eng L, Hope A, Chepeha DB, Goldstein DP, Ringash J, Hansen A, Martino R, Li M, Liu G, Xu W. Transoral Robotic Surgery (TORS) Guided Approach to Radiotherapy (RT) Volume De-Intensification in p16-positive Unknown Primary Squamous Cell Carcinoma of the Neck: The FIND Trial. American Head and Neck Society Annual Meeting. Dallas, TX.

2021 Nov Martino R, Rodriguez V, Gomes A, Barringer D, Hutcheson KA. Tidying up EAT: Using TIDieR to Standardize a New Behavioural Treatment for Patients with HNC. American Speech-Language-Hearing Association Annual Convention. Washington, DC.

PROPST, E

2022 Dec Philteos JG, Madan Y, James AL, Propst EJ, Ostrow O, McKinnon N, Everett T, Wolter NE. Public Knowledge of Button Battery Ingestions: A Social Media Based Cross-sectional Analysis. Society for Ear Nose and Throat Advances in Children Annual Meeting. Philadelphia, PA.

2022 Dec Zaman F, Vescan A, Propst EJ, Wolter NE. Outcomes of Open Versus Endoscopic Management of Juvenile Nasoangiofibroma. Society for Ear Nose and Throat Advances in Children Annual Meeting. Philadelphia, PA.

2022 Sept Li C, Propst EJ, Amin R, Chiang J, Narang I, Matava C, McKinnon N, Wolter NE. Sleep Outcomes Following Tonsillectomy for Obstructive Sleep Apnea in Children with Cerebral Palsy. AAO-HNSF 20-22 Annual Meeting & OTO Experience. Philadelphia, PA.

2022 Jul Li C, Propst EJ, Wolter NE. Morbidity and Mortality Following Tonsillectomy for Obstructive Sleep Apnea in Children with Cerebral Palsy. American Society for Pediatric Otolaryngology Annual Summer Meeting. Denver, CO.

2021 Dec Philteos JG, James AL, Propst EJ, Ostrow O, McKinnon NK, Everett T, Wolter NE. Systematic review of airway injuries following esophageal button battery ingestion. Society for Ear Nose and Throat Advances in Children 2021 Annual Meeting. Phoenix, AZ.

2021 Dec Philteos JG, James AL, Propst EJ, Ostrow O, McKinnon NK, Everett T, Wolter NE. Excision of Tongue Base Lesions in Children Without Suspension Microlaryngoscopy. Society for Ear Nose and Throat Advances in Children 2021 Annual Meeting. Phoenix, AZ.

2021 Dec Elwell Z, Wolter NE, Propst EJ, Valdez T, Scheffler P. Children with Cerebral Palsy and Pediatric Obstructive Sleep Apnea. Society for Ear Nose and Throat Advances in Children 2021 Annual Meeting. Phoenix, AZ.

2021 Dec Mancuso D, Wolter NE, Propst EJ, Valdez T, Scheffler P. Tonsillectomy in Children with Mucopolysaccharidoses: A National Cohort Study. Society for Ear Nose and Throat Advances in Children 2021 Annual Meeting. Phoenix, AZ.

INTERNATIONAL MEETINGS (continued)

SMILSKY, K

2022 May Smilsky K, Dimitrijevic A, Khayyat L, Chen J, Lin V, Le T. Cochlear Implantation in Patients with Short Duration Single-Sided Deafness: Evaluating Subjective and Objective Outcomes. American Cochlear Implant Alliance Conference ACIA2022, Washington, DC.

WITTERICK, I

2022 Jun Hernando-Calvo A, Brenes Castro J, Huang SH, Stefanovic M, Su S, O'Sullivan B, Ringash J, Lozano A, Cirauqui B, Hahn E, Teruel I, de Almeida J, Marruecos J, Witterick I, Rubio J, Goldstein D, Siu LL, Waldron J, Spreafico A, Oliva M. Prognostic Factors in Sinonasal Cancers: A Multicenter Pooled Analysis. American Society of Clinical Oncology. Chicago, IL.

WOLTER, N

2021 Dec Wolter NE. Airway Abstract Session. SENTAC 2021 Annual Meeting. Phoenix AZ.

2021 Dec Philteos JG, James AL, Propst EJ, Ostrow O, McKinnon NK, Everett T, Wolter NE. Systematic Review of Airway Injuries Following Esophageal Button Battery Ingestion. 2021 SENTAC Annual Meeting. Phoenix, AZ.

2021 Dec Prevost AS, Wolter NE, Propst EJ. Excision of Tongue Base Lesions in Children Without Suspension Microlaryngoscopy. 2021 SENTAC Annual Meeting. Phoenix, AZ.

2021 Dec Elwell Z, Wolter NE, Propst EJ, Valdez T, Scheffler P. Children with Cerebral Palsy and Pediatric Obstructive Sleep Apnea. 2021 SENTAC Annual Meeting. Phoenix, AZ.

2021 Dec Mancuso D, Wolter NE, Propst EJ, Valdez T, Scheffler P. Tonsillectomy in Children with Mucopolysaccharidosis: A National Cohort Study. 2021 SENTAC Annual Meeting. Phoenix, AZ.

VIRTUAL

ESKANDER, A

2022 May Hsiao R, Golbon B, Eskander A, Nigil Haroon N, Pasternak J. The Prevalence in Usage of Standardized Reporting Systems for Sonographically Detected Thyroid Nodules. KT Canada Scientific Meeting 2022 (Virtual).

2022 Feb Dhillon R, Chiodo A, Hubbard B, Eskander A, Philteos J. Patient Attitudes Towards Same-day Thyroidectomy During the COVID-19 Pandemic. International conference for Healthcare and Medical Students (Virtual).

GORDON, K

2022 Feb Alemu RZ, Blakeman AW, Negandhi J, Cushing SL, Papsin BC, Gordon KA. The Effects of Age on Outcomes of Cochlear Implant Use in Children and Adolescents with Short Durations of Single-Sided Deafness. 45th Mid-Winter Meeting of the Association for Research in Otolaryngology, poster presentation (Virtual).

INTERNATIONAL MEETINGS (continued)

- 2022 Feb Fung A, Negandhi J, Blakeman AW, Alemu RZ, Cushing SL, Papsin BC, Gordon KA. Exploring the Use of Auditory Nerve and Brainstem Electrophysiology to Improve Spatial Hearing in Children Using Bilateral Cochlear Implants. 45th Mid-Winter Meeting of the Association for Research in Otolaryngology, podium presentation (Virtual).
- 2022 Feb Benjamin RS, Cushing SL, Blakeman AW, Campos JL, Papsin BC, Gordon KA. Examining Balance, Cognitive Load and an Auditory Balance Device in Children and Young Adults with Cochleovestibular Loss. 45th Mid-Winter Meeting of the Association for Research in Otolaryngology, poster presentation (Virtual).
- 2021 Jul Hazen M, Cushing SL, Campos JL, Papsin BC, Gordon KA. The Effect of Ageing on Cervical Vestibular Evoked Myogenic Potentials (cVEMPS): A Retrospective Analysis. Conference on Implantable Auditory Prostheses, poster presentation (Virtual).
- 2021 Jul Benjamin RS, Cushing SL, Blakeman AL, Campos JL, Papsin BC, Gordon KA. Examining the Use of an Auditory Balance Prosthesis During a Dual Balance-cognition Task in Children and Young Adults with Cochleovestibular Loss. Conference on Implantable Auditory Prostheses, oral presentation (Virtual).
- 2021 Jul Benjamin RS, Cushing SL, Blakeman AL, Campos JL, Papsin BC, Gordon KA. Examining the Use of an Investigative Balance Prosthesis During Balance Tasks in Children and Young Adults with Cochleovestibular Loss. Conference on Implantable Auditory Prostheses, poster presentation (Virtual).
- 2021 Jul Alemu RZ, Blakeman AW, Cushing SL, Papsin BC, Gordon KA. Effects of Cochlear Implantation on Exploration of Sounds in Space in Children with Asymmetric Hearing Loss (including single sided deafness). Conference on Implantable Auditory Prostheses, poster presentation (Virtual).
- 2021 Jul Fung, A, Negandhi J, Blakeman AW, Alemu RZ, Cushing SL, Papsin BC, Gordon KA. Exploring the Use of Auditory Nerve and Brainstem Electrophysiology to Improve Spatial Hearing in Children Using Bilateral Cochlear Implants. Conference on Implantable Auditory Prostheses, poster presentation (Virtual).
- MARTINO, R**
- 2022 Mar Manduchi B, Schindler A, Battel I, Pizzorni N, Moorhead AP, Hutcheson KA, Martino R. Translation and Linguistic Validation of the DIGESTTM into Italian for People with Head and Neck Cancer. Dysphagia Research Society International Meeting (Virtual).
- 2022 Mar Manduchi B, Che V, Fitch M, Ringash J, Howell D, White J, Martino R. Content validity of dysphagia-related patient-reported outcome measures for head and neck cancer: a systematic review using COSMIN methodology. Dysphagia Research Society Annual Meeting (Virtual).
- 2021 Sept Garbin di Luca, D, Martino, R, Willis, A, Marras, C. Clinical and Economic Outcomes Associated with Dysphagia in Hospitalized Patients with Parkinson's Disease. MDS Virtual Congress.
- 2021 Jul Douglas CM, Hueniken K, Mirshams M, Eng L, Hope A, Chepeha DB, Goldstein DP, Ringash J, Hansen A, Martino R, Li M, Liu G, Xu W, de Almeida JR. Financial Toxicity in Head and Neck Cancer. American Head and Neck Society International Meeting (Virtual).

NATIONAL MEETINGS

VANCOUVER

HIGGINS, K

- 2022 Oct Noel, C, Forner, D, Higgins, KM, Coburn, N, Eskander, A, Gotlib Conn, L. Enhancing Outpatient Symptom Management in Patients with Head and Neck Cancer: A Qualitative Analysis. The Canadian Society of Otolaryngology–HNS 76th Annual Meeting. Vancouver, BC.
- 2022 Oct Higgins, KM, Chandarana, S, Johnson-Obaseki, S, Nichols, A, Prisman, E, Truong, T, Peres-Ordóñez, B. Surgical Margins: Guidelines and Consensus Conference, Where are We and Where are We Going? The Canadian Society of Otolaryngology–HNS 76th Annual Meeting. Vancouver, BC.
- 2022 Oct Higgins, KM, Roth, C, Christopoulos, A, Murray, C, Prisman, E, Sade, S. Advanced Cutaneous Squamous Cell Carcinoma: A Prospectively Accrued Multicenter Study and Advanced Skin Tumour Board. The Canadian Society of Otolaryngology–HNS 76th Annual Meeting. Vancouver, BC.
- 2022 Oct Higgins, KM, Yan, B, Enepekides, D, Eskander, A, Daniel, R. Intraoperative Oral Cavity Ultrasound Assessment Project. The Canadian Society of Otolaryngology–HNS 76th Annual Meeting. Vancouver, BC.
- 2022 Oct Higgins, KM, Gressman, K, Eskander, A, Enepekides, D, Blanas, N, Somogyi-Ganss, E. Patient Satisfaction with Different Types of Craniofacial Prostheses. The Canadian Society of Otolaryngology–HNS 76th Annual Meeting. Vancouver, BC.
- 2022 Oct Irvine, R, Witterick, I, Higgins, KM. Point of Care Ultrasound in Canadian Otolaryngology Practice: Training, Competence and Applications. The Canadian Society of Otolaryngology–HNS 76th Annual Meeting. Vancouver, BC.

LIN, V

- 2022 Oct Bajin D, Vincent Lin. Assessing Ototoxicity of Ceftazidime, Vancomycin and Clotrimazole Topical Application in Rat Middle and Inner Ear: A Safety Study. Canadian Society of Otolaryngology - Head & Neck Surgery. Vancouver, BC.
- 2022 Oct Lui J, Lin V. Antibiotic Prescribing Patterns in Otologic Surgery: A Comparison of Two Health Systems. Canadian Society of Otolaryngology - Head & Neck Surgery. Vancouver, BC.
- 2022 Oct Lui J, Lin V. Guiding Bone Conduction Implantation with Augmented Reality. Canadian Society of Otolaryngology - Head & Neck Surgery. Vancouver, BC.
- 2022 Oct Lee M, Lin V. Trends in Sociodemographic Disparities of Adult Cochlear Implantation in a Publicly funded Healthcare System Over a 5-Year Period. Canadian Society of Otolaryngology - Head & Neck Surgery. Vancouver, BC.
- 2022 Oct Lee M, Lin V. Use of Geographically Weighted Poisson Regression to Examine Spatial Varying Influences on Adult Cochlear Implantation within a Publicly funded Healthcare System. Canadian Society of Otolaryngology - Head & Neck Surgery. Vancouver, BC.

NATIONAL MEETINGS (continued)

- 2022 Oct Mavedatnia D, Lin V. The Health Literacy of Patients Eligible for Cochlear Implants. Canadian Society of Otolaryngology - Head & Neck Surgery. Vancouver, BC.
- 2022 Oct Mirza A, Lin V. Systematic Review and Pooled Analysis of Idiopathic Facial Paralysis Amid the SARS-CoV-2 Pandemic. Canadian Society of Otolaryngology - Head & Neck Surgery. Vancouver, BC.
- PROPST, E**
- 2022 Oct Philteos JG, James AL, Propst EJ, Ostrow O, McKinnon NK, Everett T, Wolter NE. Systematic Review of Airway Injuries Following Esophageal Button Battery Ingestion. Canadian Society of Otolaryngology – Head & Neck Surgery 76th Annual Meeting, Vancouver, BC.
- 2022 Oct Trac J, Chen H, Propst EJ, Wolter NE. Salivary Gland Anlage Tumour: Evaluation and Management of a Rare Pediatric Condition. Canadian Society of Otolaryngology – Head & Neck Surgery 76th Annual Meeting, Vancouver, BC.

VIRTUAL**CAMPISI, P**

- 2021 Sept Grose E, Chen T, Siu J, Campisi P, Witterick I, Chan Y. National Trends in Gender Diversity in Otolaryngology – Head & Neck Surgery in Canada. Canadian Society of Otolaryngology – Head & Neck Surgery Annual Meeting (Virtual).
- 2021 Sept Hamour A, Chen T, Cottrell J, Campisi P, Witterick I, Chan Y. Mistreatment and Discrimination Amongst Otolaryngology – Head & Neck Surgeons in Canada: A Nation-wide Survey. Canadian Society of Otolaryngology – Head & Neck Surgery Annual Meeting (Virtual).
- 2021 Sept Wang L, Henley J, Philteos J, Gabinet-Equihua A, Horton G, Levin M, Saleem A, Monteiro E, Lin V, Chan Y, Campisi P. Retrospective Evaluation of Novel Case-based Teaching Series for First Year Otolaryngology Residents. Canadian Conference for the Advancement of Surgical Education (Virtual).

CHAN, Y

- 2021 Sept Hamour A, Chen T, Cottrell J, Campisi P, Witterick I, Chan Y. Mistreatment and Discrimination Amongst Otolaryngology - Head & Neck Surgeons in Canada: A Nation-Wide Survey. Canadian Society of Otolaryngology 75th Annual Meeting (Virtual).
- 2021 Sept Grose E, Chen T, Siu J, Campisi P, Witterick I, Chan Y. National Trends in Gender Diversity in Otolaryngology-Head & Neck Surgery in Canada. Canadian Society of Otolaryngology 75th Annual Meeting (Virtual).
- 2021 Sept Yi J, Siu J, Zirkle M, Chan Y. Gender Diversity in Leadership & Research: A 13-Year Review of the Annual Canadian Society of Otolaryngology Meetings. Canadian Society of Otolaryngology 75th Annual Meeting (Virtual).

NATIONAL MEETINGS (continued)

- 2021 Sept Cherukupalli A., Yong M, Chan Y, Thamboo A. Barriers to Care for Complex Airway Disease and Multidisciplinary Solutions to Optimizing Therapy in Canada. Canadian Society of Otolaryngology 75th Annual Meeting (Virtual).
- ESKANDER, A**
- 2021 Sept Kim JH, Grose E, Philteos J, Forner D, Noel CW, Wu V, Eskander A. September 2021. Readability of the American, Canadian, and British Otolaryngology – Head and Neck Surgery Societies' Patient Materials. Canadian Society of Otolaryngology Annual Meeting (Virtual).
- 2021 Sept Forner D, Noel CW, Wu V, Parmar A, Chan KKW, de Almeida J, Husain Z, Eskander A. Nonsurgical Management of Resectable Oral Cavity Cancer During the COVID-19 Pandemic: A Rapid Review and Meta-analysis. Canadian Society of Otolaryngology Annual Meeting (Virtual).
- 2021 Sept Forner D, Noel CW, Guttman MP, Haas B, Enepekides D, Rigby MH, Taylor SM, Nathens AB, Eskander A. Volume-Outcome Relationships in Laryngeal Trauma Processes of Care. Canadian Society of Otolaryngology Annual Meeting (Virtual).
- 2021 Sept Noel CW, Griffiths R, Siu J, Forner D, Urbach D, Freeman J, Goldstein DP, Irish JC, Higgins KM, Eskander A. A Population-Based Analysis of Outpatient Thyroidectomy: Safe and Under-Utilized. Canadian Society of Otolaryngology Annual Meeting (Virtual).
- 2021 Sept Noel CW, Eskander A, Sutradhar R, Mahar A, Vigod SN, Isenberg-Grzeda E, Bolton J, Deleemans J, Chan WC, Vasdev R, Zuk V, Haas B, Mason S, Coburn NG, Hallet J, for the Enhanced Supportive Psycho-oncology Canadian Care Group. Incidence of and Factors Association with Nonfatal Self-Injury After a Cancer Diagnosis in Ontario, Canada. Canadian Society of Otolaryngology Annual Meeting (Virtual).
- 2021 Sept Noel CW, Li Q, Sutradhar R, Eskander A. Total Laryngectomy Volume During the COVID-19 Pandemic: Looking for Evidence of Stage Migration. Canadian Society of Otolaryngology Annual Meeting (Virtual).
- 2021 Jul Ziai H, Deutsch K, Gabinet-Equihua A, Huang J, Khalid S, End C, Goldstein DP, Gilbert RW, Irish JC, Eskander A, Rudzicz F, Xu Wei, de Almeida JR. Evaluation of Machine Learning and Statistical Predictive Tools for Hospital Length of Stay in Patients with Oral Cavity Cancer. American Head and Neck Society 10th International Conference on Head & Neck Cancer (Virtual).
- 2021 Jul Sajisevi M, Caulley L, Eskander A, Du J, Auh E, Karabachev A, Amr A, Conradie W, Corsten M, Forner D, Golbon B, Liu JC, Martin L, Mavedatnia D, Meltzer C, Noel J, Pasternak J, Patel V, Rolighed L, Sharma A, Tang AL, Tsao G, Venkatramani M, Wrenn SM, Zafereo M, Stack Jr. BC, Randolph G, Davies L. Parsing the Rising Incidence of Thyroid Cancer. How Are Thyroid Nodules Being Found? A Multinational, Multi-Institutional Analysis by the AHNS Endocrine Surgery Section Collaborative. American Head and Neck Society 10th International Conference on Head & Neck Cancer (Virtual).
- 2021 Jul Noel CW, Griffiths R, Siu J, Forner D, Eskander A. Outcomes of Outpatient vs. Inpatient Thyroidectomy in Ontario, Canada. American Head and Neck Society 10th International Conference on Head & Neck Cancer (Virtual).

NATIONAL MEETINGS (continued)

- 2021 Jul Samargandy S, Chiodo A, El Masri W, Hubbard B, Enepekides D, Higgins K, Monteiro E, Eskander A. Parathyroid Hormone Driven Algorithms after Thyroid Surgery: Not One-size-fits-all. American Head and Neck Society 10th International Conference on Head & Neck Cancer (Virtual).
- 2021 Jul Noel CW, Griffiths R, Siu J, Forner D, Urbach D, Freeman J, Goldstein DP, Irish JC, Higgins KM, Devon K, Pasternak JD, Eskander A. A Population-Based Analysis of Outpatient Thyroidectomy: Safe and Under-Utilized. American Head and Neck Society 10th International Conference on Head & Neck Cancer (Virtual).
- LEE, J**
2021 Oct Grose E, Lee DJ, Yip J, Cottrell J, Sykes J, Lee JK, Lee JM. Surgical Outcomes in Aspirin-exacerbated Respiratory Disease Without Aspirin Desensitization. Canadian Society of Otolaryngology-Head & Neck Surgery Annual Meeting (Virtual).
- 2021 Oct Samargandy S, Grose E, Chan Y, Monteiro E, Lee JM, Yip J. Medical and Surgical Treatment Outcomes in Patients with Chronic Rhinosinusitis and Immunodeficiency: A Systematic Review. Canadian Society of Otolaryngology-Head & Neck Surgery Annual Meeting (Virtual).
- PROBST, E**
2021 Sept Cheng E, Propst EJ, Somers G, Wolter NE. A Rare Case of Glial Heterotopia of the Occiput. Canadian Society of Otolaryngology – Head & Neck Surgery 75th Annual Meeting (Virtual).
- WOLTER, N**
2021 Sept Wolter NE, Yeung J. Pediatric OHNS paper session. 75th CSOHNS Virtual Annual Meeting. Moderators (Virtual).
- 2021 Sept Cheng E, Propst EJ, Somers G, Wolter NE. A Rare Case of Glial Heterotopia of the Occiput. Canadian Society of Otolaryngology- Head and Surgery Virtual 75th Annual Meeting (Virtual).
- XU, J**
2021 Sept Xu J, Chau J, Rotenberg B, Morong S, Mulholland GB, Vezina JP. Beyond the UPPP: Sleep Surgery for the General Otolaryngologist. Canadian Society of Otolaryngology-Head and Neck Surgery (Virtual).

PROVINCIAL/LOCAL MEETINGS

- CHAN, Y**
2022 May Kirubalingam K, Dzioba A, Chan Y, and Graham E. Authorship Diversity in Otolaryngology: A 9-year Analysis of Articles Published in Journal of Otolaryngology – Head & Neck Surgery. Western University Annual Medical Student Research Day. London, ON.
- DIMITRIJEVIC, A**
2022 Jul Prince P, Dimitrijevic A. Neural Correlates of Auditory Working Memory in CI Users. Canadian Academy of Audiology. Niagara Falls, ON.

PROVINCIAL/LOCAL MEETINGS (continued)**ESKANDER, A**

2022 Feb Du Y, Smoragiewicz M, Eskander A. Nivolumab for Recurrent or Metastatic Head and Neck Squamous Cell Carcinoma. University of Toronto Medical Student Research Day. Toronto, ON (Virtual).

MARTINO, R

2022 Jun Hutcheson, KA, Martino R. Using TIDieR to Standardize and Monitor Swallowing Therapy Fidelity in the Multi-site PRO-ACTIVE Clinical Trial for Dysphagia in Head and Neck Cancer. Multinational Association of Supportive Care in Cancer. Toronto, ON.

2022 Jun Manduchi, B, Fitch, M, Ringash, J, Howell, D, Martino, R. Facilitators and Barriers to Implementation of Swallowing Therapies for Head and Neck Cancer Patients: Preliminary Results from a Qualitative Study. Multinational Association of Supportive Care in Cancer. Toronto, ON.

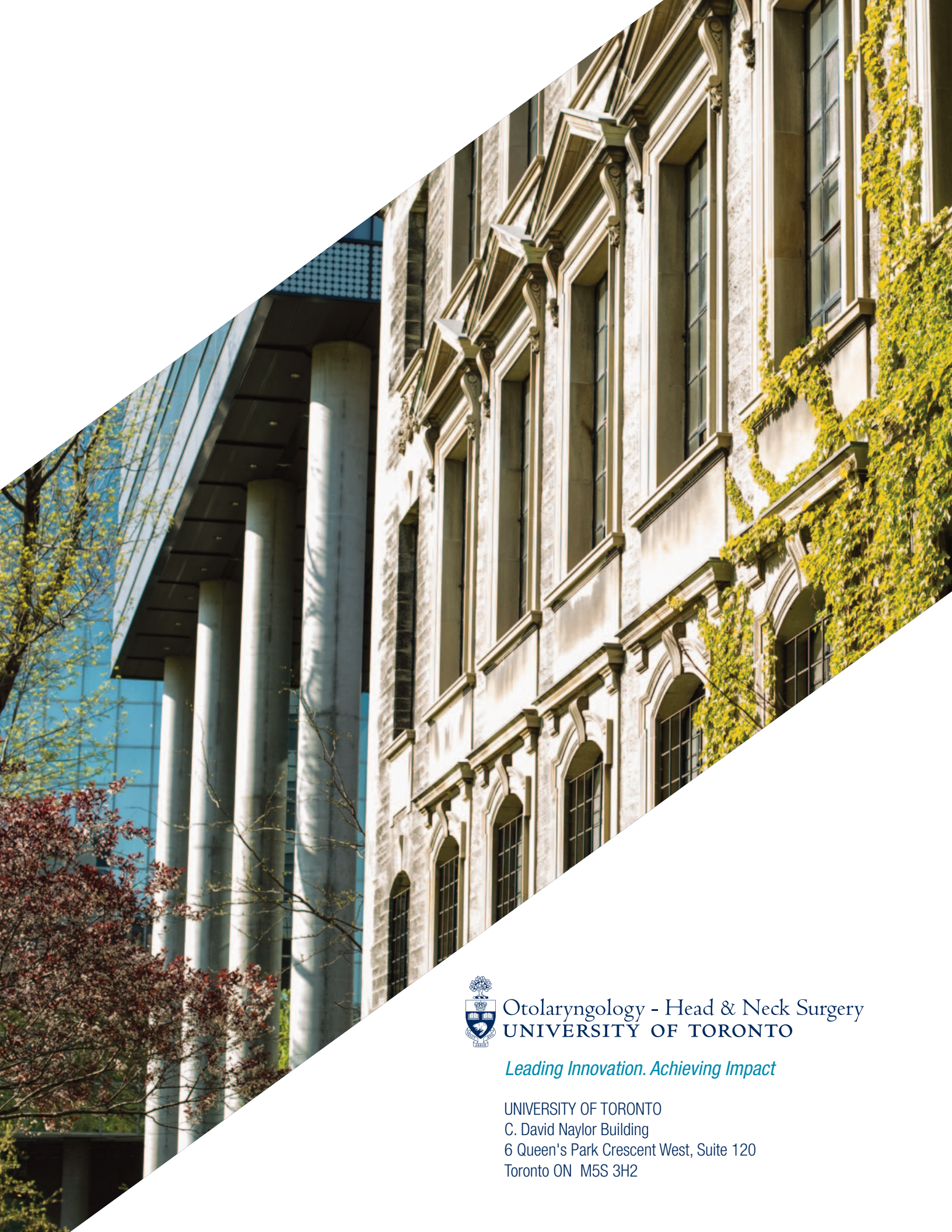
2022 Jun Martino, R, Khan, MM. Manduchi, B, Rodriguez, V, Fitch, MI, Barbon, CEA, McMillan, H, Hutcheson, KA. Exploring Patient Experiences with a TeleHealth Behavioural Swallowing Intervention for the PRO-ACTIVE Trial in Patients with Head and Neck Cancer. Multinational Association of Supportive Care in Cancer. Toronto, ON.

2022 May Martino R, Garcia RJ, Ringash J, Fitch M, de Almeida JR, Longo C. Incurred Costs in Patients with Head and Neck Cancer Treated with Radiotherapy Canadian Centre for Applied Research in Cancer Control, Toronto, ON.

WOLTER, N

2022 May Akinkugbe O, McKinnon NK, Wolter, NE. Vascular Complications in Children Following Button Battery Ingestion: A Systematic Review. POS Research and Clinical Competition, Hospital for Sick Children, University of Toronto, Toronto, ON.

The data provided within this annual report does not include information pertaining to faculty members: Julija Adamonis, Ashlin Alexander, Sumeet Anand, Jennifer Anderson, Jamil Asaria, Sarfaraz Banglawala, Greg, Belchetz, Michael Brandt, Deron Brown, Robert Burke, Roman Chaban, M. Chang, Jerry Chapnik, Nitin Chauhan, Dario Coletta, Kris Conrad, Dustin Dalgorf, Taryn Davids, Susan Drucker, Vinay Fernandes, David Finkelstein, Vito Forte, Amadeep Grewal, David Hacker, Jerry Halik, Robert Hekkenberg, Teresa Holler, Anil Katyal, William Kaul, Jack Kolenda, Mark Korman, Brenda Kou, Lukas Kus, Ambrose Lee, Annesse Lee, Randy Leung, Bosco Lui, Sharon Morong, Robert Mounsey, Jerry Naiberg, Raymond Ng, Alexander Osborn, Modupe Oyewumi, Laurel Palmer, Xerxes Punthakee, Richard Rival, Michael Roskies, John Rutka, Raewyn Seaberg, Manish Shah, Jack Shahin, Praby Singh, Oakley Smith, Philip Solomon, Ian Syrett, Adam Toth, Sandra Vojvodich, Jeffrey Werger, Jill Witte, Adrienne Wong, Jonathan Yip, Molly Zirkle.



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