ANNUAL REPORT

DEPARTMENT OF OTOLARYNGOLOGY-HEAD & NECK SURGERY

University of Manitoba
College of Medicine, Faculty of Health Sciences
Edited by:

Dr. P. Kerr

Ms. Y. Groshak
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University Faculty Members

**Professor:**
B. Blakley, MD, PhD, FRCSC

**Associate Professors:**
J. Hochman, MD, FRCSC
P. Kerr, MD, FRCSC

**Assistant Professors:**
M. Barker, MD, FRCSC
L. Chan, MD, FRCSC
L. Fishman, MD, FRCSC
A. Frohlich, MD, FRCSC
R. Gall, MD, FRCSC
L. Garber, MD, FRCSC
A. Gooi, MD, FRCSC
J. Jones, MD, FRCSC
D. Leitao, MD, FRCSC
H. Levin, MD, FRCSC
E. Meen, MD, FRCSC
F. G. Osler, MD, FRCSC
D. Sutherland, MD, FRCSC
N. Viallet, MD, FRCSC

**Lecturer:**
A. Darnbrough, FRCSC
Residents

**PGY1**
Aviva Fliker  
Nicholas Janusz

**PGY2**
Paige Moore  
Alexandra Thielmann

**PGY3**
Michael Gousseau  
DaveRishi Pahwa

**PGY4**
Ali Esmail  
Diana Khalil  
Dana Wong

**PGY5**
Trung Le
UNIVERSITY OF MANITOBA
Department of Otolaryngology – Head and Neck Surgery

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<th>Position</th>
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<td>Department Head</td>
<td>Dr. P. Kerr</td>
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<td>Postgraduate Director</td>
<td>Dr. D. Sutherland</td>
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<td>Undergraduate Director</td>
<td>Dr. A. Gooi</td>
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<td>Research Director</td>
<td>Dr. B. Blakley</td>
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<td>Director Continuing Professional Development</td>
<td>Dr. J. Jones</td>
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<td>Cochlear Implant Program Co-Directorship</td>
<td>Dr. J. Hochman</td>
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<td>D. Leitao</td>
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<td>Cochlear Implant Program Admin Director</td>
<td>Mr. Justyn Pisa</td>
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<td>Director Simulation &amp; Robotics Lab</td>
<td>Dr. J. Hochman</td>
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<td>Postgraduate Education Assistant &amp; Department Head Administrative Assistant</td>
<td>Ms. Yvonne Groshak</td>
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<td>Department &amp; Undergraduate Administrative Assistant</td>
<td>Ms. Emi Okamoto</td>
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<td>Vestibular Lab Director</td>
<td>Dr. B. Blakley</td>
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<td>Business Manager</td>
<td>Mr. Eric Mann</td>
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**Section Heads:**

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<tr>
<td>Health Sciences Centre</td>
<td>Dr. P. Kerr</td>
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<td>Children’s Hospital</td>
<td>Dr. D. Leitao</td>
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<td>St. Boniface General Hospital</td>
<td>Dr. F. G. Osler</td>
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<td>Victoria General Hospital</td>
<td>Dr. M. Barker</td>
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**Committee Chair holders:**

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<td>Executive</td>
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<td>Continuing Medical Education</td>
<td>Dr. J. Jones</td>
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<td>Research</td>
<td>Dr. B. Blakley</td>
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Mission Statement

The Mission of the Department of Otolaryngology–Head and Neck Surgery, College of Medicine, Faculty of Health Sciences, University of Manitoba is to provide professional leadership in all aspects of Otolaryngology – Head and Neck Surgery through its teaching, research, and by providing exemplary clinical care.

Clinical Care

The clinical mission of the Department:

- Provide Manitobans with compassionate, evidence based care with the best possible clinical outcomes in the clinical areas of general otolaryngology, neurotology, pediatric otolaryngology, rhinology, communicative disorders; sleep disordered breathing, facial plastic and reconstructive surgery, and head and neck oncology.
- Play an active role in health care management and advocacy as they pertain to the specialty.
- Provide care to remote communities in Northern Manitoba and Nunavut through the Northern Medical Unit.

Education

The general educational mission of the Department:

- Provide fundamental skills and a basic understanding of otolaryngology to undergraduates, in-depth training of postgraduates, tailored education for allied health care professionals, and an environment of continuing medical education in Otolaryngology – Head and Neck Surgery.

The primary undergraduate educational goals:

- Provide fundamental knowledge and skills to medical students such that they are prepared to enter postgraduate training in the field of their choice and to introduce them to Otolaryngology – Head and Neck Surgery as a potential career.

The primary postgraduate educational goals:

- Provide residents with broadly based, in-depth training that will enable them to enter general Otolaryngologic practice, or enter advanced training in any of the Otolaryngologic subspecialties.

The Department provides a safe, collegial, academically stimulating environment for staff and trainees. Educational goals will be accomplished within the framework of the College of Medicine, Faculty of Health Sciences, University of Manitoba mission statement, and the accreditation standards of the Royal College of Physicians and Surgeons of Canada.
Research

The research mission of the Department is to produce scientific work that improves outcomes for our patients, improves the educational process for our trainees, and improves the administration and delivery of health care.
DEPARTMENT OF OTOLARYNGOLOGY – HEAD AND NECK SURGERY

Department Head Report

Dr. P. Kerr

I am pleased to report another successful year for the Dept. of Otolaryngology-Head and Neck Surgery, University of Manitoba. Heartfelt thanks to all our staff and trainees that make this such a great department.

The department continues offer a complete range of care covering all the major subspecialties. We were pleased to welcome Dr. Andrea Darnbrough on staff in 2014. She is a Fellowship Trained Laryngologist who will be augmenting the airway, voice and swallowing care within the WRHA. Dr. Darnbrough’s practice will primarily be based out of the MB Clinic and HSC. Her Fellowship training in McGill University with Dr. Karen Kost has enabled her to bring back a host of new skills to our program. She and Dr. Jodi Jones will establish the first formal Pediatric Voice Clinic in the WRHA. We are delighted with her decision to return to Winnipeg.

The Cochlear Implant and Bone Anchored Hearing Aid Program has been tremendously successful thanks to the great work of Drs. Les Garber, Jordan Hochman, and Darren Leitao. The program has had excellent management by Mr. Justin Pisa. The Winnipeg Regional Health Authority celebrated our implantation of the 100th cochlear device, only 3 years after the program’s inception.

The H&N Surgical Oncology division had the pleasure of training its first Fellow. Dr. Mohammed Alessa completed his training in June, 2014 and returned to an academic clinical post in Riyadh, Saudi Arabia.

Under the strong program directorship of Dr. Donna Sutherland, our residency training program continues to be fully approved by the RCPSC. Our graduate residents were both successful in completing the RCPSC Fellowship Exam in Otolaryngology-Head and Neck Surgery this year. Our graduates continue to enter advanced subspecialty training and general practice in roughly equal proportions. Our resident trainees continue to excel in a variety of areas in addition to clinical practice: Dr. Trung Le won a top resident research award from the Triological Society for his work with Dr. Brian Blakely on sensorineural hearing loss. Dr. Ali Esmail completed entrepreneurial training at McMaster University, successfully launching a company that markets software which facilitates timely electronic communication of patient information amongst caregivers, in a secure fashion.

Dr. Jordan Hochman is leading the department in research, working his way to the forefront in the field of surgical simulation. The Robotics and Simulation Laboratory jointly run by Dr. Hochman and the Faculty of Engineering continues to develop both computer-based haptic systems, and 3-D structural models for simulation. This work is generating international attention, as a potential means to improve surgical training.
Our department continues to benefit from community Otolaryngologists who donate a tremendous amount of time to the academic mission. Dr. Gigi Osler is both very active within the department and in the CSO-HNS. She is the primary local coordinator for the upcoming 2015 CSO-HNS Annual Meeting. Dr. Richard Gall continues to coordinate the National Sinus Surgery Course for Canadian Otolaryngology residents. Winnipeg has become the main site for this event. Dr. Adrian Gooi has won multiple awards for his work with undergraduate medical education. He is a key player in curriculum renewal within the University of MB. Dr. Mark Barker is an Examiner with the RCPSC.

There is little time to enjoy our last year’s accomplishments with everything moving at a fast pace forward in the coming year. Our department is hosting the 2015 Canadian Society of Otolaryngology-Head and Neck Surgery Annual Meeting here in Winnipeg. The theme chosen for the meeting is “Taking Care of Patients and Yourself: Work/Life Balance”. We look forward to hosting the rest of the country in June and to all the successes that 2015 will bring!
Educational Reports

Postgraduate Director Report

Dr. D. Sutherland

The 2013-2014 Academic year was a busy one with the Royal College Accreditation occurring in February 2014. Our program was reviewed by Dr. Ravi Sidhu, Vascular Surgeon from the University of British Columbia. The Royal College report was very complementary to everybody involved in the program and we received full accreditation with review at the next regular cycle.

Otolaryngology, along with Medical Oncology, has been selected by the Royal College to be the first programs to undergo transition to Competency Based Medical Education (CBME). In that regard, specialty committee meetings were held in Ottawa in the spring and fall of 2014. More planning and work sessions on CBME are planned for the upcoming year. This promises to be an exciting and busy time for our specialty and our program.

Dr. Emad Massoud from Dalhousie University in Halifax joined us as our visiting Professor for the 2013-2014 Department of Otolaryngology Resident Research Day. Dr. Trung Le won this year’s award for his presentation on “Mannitol and the Blood-Labyrinth Barrier”, and there was also an honorable mention for Dr. Dana Wong’s presentation on “Comparison of Cadaveric and Isomorphic Virtual Haptic Simulation in Temporal Bone Education.” Several residents attended the Canadian Society of Otolaryngology meeting in Ottawa where they participated in poster and podium presentations. Dr. Le and Dr. Khalil were also invited to present their research at American otolaryngology research meetings. We are looking forward to welcoming Dr. Sam Daniels from Montreal as our Visiting Professor for Resident Research Day on May 7&8, 2015.

In June, 2014, Dr. Bella Wu successfully completed her ENT Residency Program at the University of Manitoba with successful completion of her Royal College Examinations. She leaves Manitoba to go work in Vancouver, BC. Our program welcomed two new PGY-1 residents to the 2014-2015 Academic Year. Nicholas Janusz joins us from the University of Manitoba and Aviva Fliker joins us from Australia. We also welcome Dr. Andrea Darnbrough who recently joined the Otolaryngology Department at the University of Manitoba after completing a Laryngology Fellowship at McGill University. We look forward to integrating Dr. Darnbrough and her expertise into the Otolaryngology – Head and Neck Residency Program.
Undergraduate Director Report

Dr. Adrian Gooi

2014 was an event filled year with lots of activity in the following areas:

Education

- Transition to new UGME curriculum
- Incorporation of ENT into “Clerkship Academic Half-days” with very positive feedback.
- Further use of flipped classroom and interactive learning in instructional planning.
- ENT continues to be a leader in innovation and online learning in UGME

Innovation

- Developed an educational session with a student-generated question bank using small group learning
- Introduced and promoted “Think-Pair-Share” interactive teaching techniques
- Furthered the use of Desire2Learn in the curriculum with Discussion boards, quizzes, and surveys
- Interprofessional initiatives with education session for Rural Family Medicine, Urban Family Medicine, Northern Family Medicine, Emergency Medicine, Dentistry, and internal Medicine. Very positive feedback on all sessions.

Scholarship

- Published on e-learning, team-based learning, and student-generated question bank, Medical School 2.0, audience response systems, and point-of-view cameras for medical education
- Other research performed includes small vs large group teaching, national exam bank, open-access exam banks, and collaborative curricula

Our department continues to play an important, innovative role in undergraduate curriculum reform in the University of Manitoba. Thank you to all those who contributed to undergraduate education in the department in 2014!
Research Director Report

Dr. Brian Blakley

The Department of Otolaryngology’s Research program is progressing. It seems fair to say that there are three main themes: Medical Education Methods, Virtual reality / simulation and ototoxicity. This is a nice breadth of expertise for such a small department and exceeds most other departments comparatively. Next year it appears that a new otologic research fund for residents and students will be available due to a generous donor.

Residents are the driving force behind the success of the program which aims to balance research and clinical duties appropriately.

Research Day was held May 2. Dr. Emad Massoud from Dalhousie was our visiting professor. Presentations included:

Dana Wong - Comparison of Cadaveric and Isomorph Virtual Haptic Simulation in Temporal Bone Education

Trung Le - Mannitol and the Blood-Labyrinth Barrier

Alex Thielman - A Review of Age-related Hearing Loss and Antioxidants

Paige Moore - Incidence of Vestibular Schwannoma in patients with unilateral vestibular dysfunction and, preoperative management of Brugada syndrome in upper airway surgery

Veronica Wong - Clinical Application of VEMP

Diana Kahlil - T3 laryngeal cancer survival rates: concurrent chemoradiation versus total laryngectomy

Serena Nelko - Making Lectures Click: Audience response clickers in Otolaryngology-Head and Neck Surgery pre-clerkship medical education

Michael Gousseau - Mobile-based Audience Response Systems

DaveRishi Pahwa - ResEval: Implementing a Mobile-Based App for Resident Evaluations

Esther Kim - Additional Factors in Ototoxicity

The winner of the resident research award was Trung Le. Serena Nelko was awarded the first medical student research award in a new twist this year.
Educational Reports

Director of Continuing Professional Development

Dr. Jodi Jones

The highlight for 2013 was the inaugural Prairie Otolaryngology Weekend. This was held from August 23-25, 2013 at Lakeview Hecla Resort and Conference Centre. The meeting was well attended and included a variety of speakers. The conference targeted Otolaryngologists, residents and medical students from Manitoba and Saskatchewan. The scientific program was accredited by the Royal College of Physicians and Surgeons of Canada and the University Of Manitoba College Of Medicine, Faculty of Health Sciences. The feedback from the conference was excellent.

The 2nd Annual Prairie Otolaryngology Weekend was held at the Elkhorn Resort, Spa and Conference Centre, August 22-24, 2014. Once again we were joined by students and physicians from Saskatchewan and Manitoba. We also welcomed Dr. Trina Uwiera, Pediatric Otolaryngologist from Stollery Children’s Hospital in Edmonton, as our special guest speaker. The feedback from the conference was once again very positive. We are looking forward to 2015 which is to be held in Saskatchewan.

In addition to our regular scheduled series, we also enjoyed a lecture from Dr. Satnam Najjar, Neurologist on the management of headache and its relationship to sinus disease and Otolaryngology in March 2014.

In late 2013, we initiated online evaluations for regular scheduled series in an effort to minimize paper. Members of the department are encouraged regularly to complete these evaluations.
St. Boniface Hospital

Section Head Report

Dr. F. Gigi Osler

St. Boniface Hospital (SBH) was first established in 1871 and has a long tradition of excellence and caring. SBH strives to provide Manitobans with the highest quality health care possible by anticipating and responding to community needs. As a leader in patient care, research, and education, the hospital maintains the highest ethical standards, respects life and human dignity, and is committed to the populations it serves.

St. Boniface Hospital is a tertiary care facility, a teaching hospital, and the second busiest hospital in Winnipeg. The hospital campus is comprised of more than 180 departments and services, which are located in seven separate buildings and situated on 20 acres of land. It also operates several satellite facilities and maintains close relationships with other health facilities as well as the health agencies of the Grey Nuns network.

From July 1, 2013 to December 31, 2014, the Section of Otolaryngology-Head and Neck Surgery (Oto-HNS) at St. Boniface Hospital provided care to patients in the emergency department, outpatient clinics, and inpatient units. There were over 4,000 patient visits to the Oto-HNS outpatient clinics and close to 1,500 patients treated in the main operating rooms for Oto-HNS procedures. The SBH rotation continues to provide outstanding Rhinology teaching to the residency program under the expert guidance of Drs. Richard Gall, Eric Meen and Gigi Osler and maintains the province’s only CT-navigated sinus surgery system. Dr. Mark Barker continues to provide the residency program with Laryngology teaching and clinical expertise. Drs. Kerr, Sutherland and Viallet continue to provide excellent head and neck surgical oncology teaching with many of Manitoba’s head and neck surgical oncology procedures performed at SBH.
The Surgical Hearing Implant Program (SHIP) was established in 2011 to provide Manitobans with access to the most advanced medical technologies for hearing loss, right here in Manitoba. Over the past year, the SHIP has continued to meet its’ mission by providing Bone Anchored Hearing Aids (BAHA) and Cochlear Implants (CI) to almost 70 patients, ensuring these Manitobans an improved quality of life.

**BAHA subprogram:**
The BAHA subprogram provides access to surgically implantable bone-anchored hearing aid technology. The program has progressively grown in numbers, surpassing expectations. The number of requests for consultations grew by 58% over program estimates, to 76 consultations in 2014. Despite this, we reduced our surgical wait times by 16% through increased surgical activity. The BAHA subprogram continues to experience challenges. Currently, we are the only defined program in the province offering BAHA programming and clinical services. Over one-third of our clients are patients implanted out of province prior to 2010, seeking long term management. This non-surgical volume poses significant challenges for our small program with a growing list of new surgical candidates. The SHIP is currently exploring innovative ways to service and support existing BAHA patients by meeting with hospital representatives, and exploring partnerships with the community to deliver necessary services.

**CI subprogram:**
The CI subprogram continues to achieve milestones and miracles each year. In 2014, we were able to implant 40 patients, both children and adults, ensuring our program maximized the services we can provide to Manitobans. The program has reviewed the patient journey, and streamlined our processes to reduce patient wait times. Surgery wait times continue to improve, decreasing by 20% from 2013. In November 2014, we achieve a significant milestone- the 100th cochlear implant insertion by our program- which led to local and provincial media coverage. The WRHA, HSC, and SHIP provided the media with access to both a pediatric and adult cochlear implant recipient, as well as our team of audiologists, therapists, and surgeons, to demonstrate how life-changing this technology is. A universal newborn hearing screening program is soon to be introduced in 2016, and the SHIP is preparing to support the children and families that may require its services.

Our Surgical Hearing Implant Program continues to search for ways to provide our community with the best hearing health care. We have continued to progressively shorten wait times. We are growing our outcomes monitoring capabilities, to ensure that our patients are getting the best benefit. We have begun steps to grow our research activity, starting with outcomes research on BAHAs, and benefits of cochlear implants in areas of expanding clinical indications. Our program continues to advocate for sustainable ways to support hearing impaired individuals, and improve their quality of life.

See Separate PDF file – Mr. Justyn Pisa
Children’s Hospital

Section Head

Dr. D. Leitao

The section of Pediatric Otolaryngology experienced a number of “firsts” in 2014.

We welcomed Dr. Andrea Darnbrough to our staff of 5 pediatric surgeons, bringing her wealth of experience in adult laryngology to her care of children. Our Pediatric Voice Clinic will see growth and innovation through the collaborations of Drs. Darnbrough and Jones as they develop this area of practice.

Drs. Gooi, Leitao, and Jones have been collaborating with Pediatric Anesthesia on the development of novel techniques of oxygen delivery during endoscopic airway surgery. This work has resulted in improved care in children undergoing complex airway surgery, and was presented at international research forums.

Key investments in surgery included high definition camera systems for microsurgery, specialized suspension arms for safer oral surgery, and the advent of balloon dilatation procedures for endoscopic airway surgery. Ear surgical approaches are advancing beyond the microscope to endoscopic techniques. We have made investments in the instrumentation and the required knowledge base to bring these minimally invasive techniques to Manitoba. Research continues to be a priority for our service. Our surgeons, together with the Children’s Hospital Research Institute of Manitoba, participated in phase 3 randomized clinical trials this year, helping to bring new pharmaceuticals to market that will help children with ear disease in the future.

It has been an exciting year of “firsts”, as we continue to provide our patients with the best treatments available, anywhere in the world.
Peer Reviewed Publications – Faculty 2013 – 2014

The following list of accepted or published publications and presentations includes only work by faculty who hold a primary appointment in the Department of Otolaryngology and work by cross-appointed staff related to the core mission of this Department.

**Dr. Brian Blakley**


**Dr. Jordan Hochman**


Dr. Jordan Hochman


Home-based Computer Gaming in Vestibular Rehabilitation: Effects on Gaze and Balance Impairment, Reimer K, Szturm T., Johnston J., Hochman J. Games for Health – Accepted


Dr. Adrian Gooi


Dr. Paul Kerr

Dr. Darren Leitao


Dr. Eric Meen
Book Chapters – Faculty 2013-2014

Dr. Andrea Darnbrough

Dr. Adrian Gooi


Dr. Brian Blakley
Podium and Poster Presentations 2013 – 2014

Dr. Brian Blakley


Dr. Andrea Darnbrough


Dr. Andrea Darnbrough  


Darnbrough, AL. Yammine, N. Bosch, D. Laryngeal Manifestations of Neurologic Diseases. 2014. CSO-HNS Annual Meeting, Ottawa, ON. May 11-13, 2014

Darnbrough, AL. Laryngeal Trauma. Laryngology Course, McGill University, Montreal, QC. February 3-4, 2014.

Darnbrough, AL. Transnasal Esophagoscopy. Laryngology Course, McGill University, Montreal, QC. February 3-4, 2014.

Darnbrough, AL. Emergency Airway Options in Adults and Children. Advanced Airway course, McGill University, Montreal, QC.

Darnbrough, AL. Advanced Bronchoscopy. Advanced Airway course, McGill University, Montreal, QC

Dr. Adrian Gooi  
Research Presentation – Department of Otolaryngology, University of Manitoba – “Audience Response Systems (ARS) 2.0: Does the ARS platform type affect the educational value of interactive lectures?: Gousseau M, Nelko S, Gooi A, 2014


Weiss, A; Khalil, D; Jones, J; Gooi, A; Leitao, J; Wong, H; Reimer, H. Intracatheter low pressure oxygenation during balloon dilatation of subglottic stenosis. Australian Society of Anesthetists National Scientific Congress, Queensland Australia, Oct 2014

Dr. Jordan Hochman  
Soft Tissue Modeling in Temporal Bone Simulation; Wong D., Unger B., Kraut J., Hochman J.; Canadian Society of Otolaryngology, Banff Ab., June 2013

Face and Content Validation of a Rapid-Prototyped Temporal Bone Model; Unger B., Kraut J., Hochman J.; Canadian Society of Otolaryngology, Banff Ab., June 2013


Hair Barrette Induced Cochlear Implant Receiver Stimulator Site Infection with Extrusion [poster]; Le T., Leitao D., Hochman J.; Canadian Society of Otolaryngology, Banff Ab., June 2013
Dr. Jordan Hochman
Temporal Bone Surgical Simulation Employing A Multicore Architecture; Kraut J., Unger B., Hochman J.; Canadian Conference on Electrical and Computer Engineering, Regina SK., June 2013

Design and Validation of 3D Printed Complex Models with Internal Anatomic Fidelity for Training and Rehearsal; Bertram J. Unger, Jay Kraut, Jordan Hochman Medicine Meets Virtual Reality. Manhattan Beach CA. Feb 2014


Mixed Reality Haptic Temporal Bone Simulation; Rampersad V., Hochman J., Kraut J., Unger B., Sepheri N.; Resident Research Day, University of Manitoba, May 2014

Comparison of Isomorphic 3D Printed and Virtual Haptic Temporal Bone Simulation in Education; Wong D., Kraut J., Unger B., Hochman JB.; Resident Research Day, University of Manitoba, May 2014

Comparison of Isomorphic Cadaveric and Virtual Temporal Bone Simulations; Wong D., Kraut J., Unger B., Hochman JB.; Resident Research Day, University of Manitoba, May 2014


Comparison of Isomorphic 3D Printed and Virtual Haptic Temporal Bone Simulation in Education; Unger B., Kraut J., Hochman J.; Simulation Summit, RCPSC, Vancouver Canada, Nov. 2013

Comparison of Isomorphic Cadaveric and Virtual Temporal Bone Simulations; Wong D., Kraut J., Unger B., Hochman JB.; Canadian Society of Otolaryngology (CSO), Ottawa Canada, May 2014

Comparison of Isomorphic 3D printed and Virtual Haptic Temporal Bone Simulation
Wong D., Kraut J., Unger B., Hochman JB.; Canadian Society of Otolaryngology (CSO), Ottawa Canada, May 2014

Comparison of Anatomically Matched 3D Printed and Virtual Haptic Temporal Bone Simulation; Hochman J., Kraut J., Pisa J., Rhodes C., Unger B.; Combined Otolaryngology Spring Meeting COSM, May 2014, Las Vegas

Dr. Jodi Jones
Moore, P; Wu, B; Jones, JLP. Best Practice for the Management of Post-Tonsillectomy Patients from Rural and Remote Areas. Podium Presentation, Canadian Society of Otolaryngology-Head & Neck Surgery Annual Meeting, Ottawa, Ontario, May 2014

Jones, J; Meen, E; Osler, FG. Seven Habits of Highly Effective Surgeons – Evidence-based strategies to improve work-life satisfaction. Mini-Workshop, Canadian Society of Otolaryngology-Head & Neck Surgery Annual Meeting, Ottawa, Ontario, May 2014
Dr. Jodi Jones
Weiss, A; Khalil, D; Jones, J; Gooi, A; Leitao, J; Wong, H; Reimer, H. Intracatheter low pressure oxygenation during balloon dilatation of subglottic stenosis. Australian Society of Anesthetists National Scientific Congress, Queensland Australia, Oct 2014

Dr. Paul Kerr
Le T, Sutherland D, Kerr PD: Validation of 1-hour Post-Thyroidectomy PTH Level in Predicting Hypocalcemia. Accepted for presentation at CSO-HNS Annual Meeting, Banff, 2013

Khalil D, Kerr PD, Sutherland: Spurious Elevated PTH Levels after Total Parathyroidectomy. Accepted for presentation at CSO-HNS Annual Meeting, Banff, 2013


Kerr PD, Meyers C, Cooke A, Butler J, Lambert P: Functional Outcomes After Treatment of Advanced Oropharyngeal Carcinoma – Conformal RT vs IMRT. Accepted for presentation at CSO-HNS Annual Meeting, Banff, 2013

Dr. Eric Meen
Demystifying the Frontal Sinus Through Practical Tips; Chan Y, Janjua A, Lee J, Meen E, Tewflik M; Canadian Society of Otolaryngology-Head and Neck Surgery Annual Meeting, Ottawa, May 12, 2014

Seven Habits for Highly Effective Surgeons: Evidence-Based Strategies to Enhance Work/Life Satisfaction; Osler G, Jones J, Meen E; Canadian Society of Otolaryngology-Head and Neck Surgery Annual Meeting, Ottawa, May 11, 2014

Dr. Donna Sutherland

Dr. Gigi Osler
Seven Habits for Highly Effective Surgeons: evidence-based strategies to enhance work-life balance. Osler FG, Jones J, Meen E. Workshop presented at the 68th Annual Meeting of the Canadian Society of Otolaryngology-Head and Neck Surgery. May 2014, Ottawa, ON

Dr. Norbert Viallet
"Improving Care for the Adult Patient with a Persistent Neck Mass Head and Neck Provincial Consensus Meeting, "October 26th, 2013

Provincial Consensus Working Group(Dr. Richard Nason, Dr. Esther Ravinsky, Dr. Michel Nasr, Dr. Scott Sutherland, Dr. Norbert Viallet, Dr. Shaun Loewen, Dr. Diana Khalil, Dr. Pamela Skrabek, Dr. Vallorie Gordon*) *Primary Investigator/Funding Recipient

Presentation Title: "Proposed Standard of Care – An Algorithm for Management of the Neck Mass"
Journal Reviewer/Editorial Board

Dr. Blakley
Associate editor; Otology section for
- Journal of Otolaryngology Head & Neck Surgery
- Otolaryngology-Head and Neck Surgery
- Otology & Neurotology

Editorial Board member for
- Journal of Otolaryngology Head & Neck Surgery
- Otolaryngology-Head and Neck Surgery Journal

Reviewer for
- Archives of Otolaryngology
- Agency for Healthcare Quality research (US-HIH Group)
- Canadian Respiratory Journal
- Clinical Cancer Research (American Association for Cancer Research)
- CMAJ
- Journal of the American Association for Cancer Research
- Journal of Pharmacology and Experimental Therapeutics
- Journal for Medical Decision Making
- Kuwait Journal of Medicine
- Laryngoscope
- Neuroscience
- Toxicology Letters

Dr. Gall
Reviewer for
- Journal of Otolaryngology Head & Neck Surgery

Dr. Garber
Reviewer for
- The Canadian Journal of Otolaryngology
- Journal of Otology and Neuro-otology

Dr. Hochman
Reviewer for
- Journal of Otolaryngology Head & Neck Surgery
- Otolaryngology Head and Neck Surgery Journal
- Otology Neurotology Journal
- Oto-Rhino-Laryngology
- The Laryngoscope

Dr. Jones
Reviewer for
- Journal of Otolaryngology Head & Neck Surgery

Dr. Kerr
Reviewer for
- Journal of Otolaryngology Head & Neck Surgery
Dr. Meen
   Reviewer for
   - Journal of Laryngoscope
   - American Journal of Rhinology and Allergy
   - Annals of Otology, Rhinology and Laryngology

Dr. Leitao
   Reviewer for
   - Journal of Otolaryngology-Head and Neck Surgery
   - Annals of Otology, Rhinology & Laryngology

Dr. F. G. Osler
   Reviewer for
   - Journal of Otolaryngology Head & Neck Surgery

Dr. Sutherland
   Reviewer for
   - Journal of Otolaryngology Head & Neck Surgery

Dr. Viallet
   Reviewer for
   - Journal of Otolaryngology Head & Neck Surgery
   - Current Oncology
University of Manitoba-College of Medicine-Faculty of Sciences - Positions

Dr. Brian Blakley
Research Director, Department of Otolaryngology
Vestibular Lab Director
Admissions Committee – University of Manitoba Biomedical Engineering Program

Dr. Adrian Gooi
Director – Online Learning
  o Undergraduate Medical Education
  o Faculty of Medicine
Honorary Senior Stick
  o Elected by students to act as a member of the Manitoba Medical Student Association
  o Undergraduate Medical Education
  o Faculty of Medicine
Director of UGME – Otolaryngology
Director of Educational Information Technology - Otolaryngology

Dr. Paul Kerr
Head, Department of Otolaryngology-Head & Neck Surgery
Faculty Executive Committee, College of Medicine
Dept. Heads’ Council, College of Medicine

Dr. Donna Sutherland
Program Director – Department of Otolaryngology Residency Program

Dr. Norbert Viallet
H&N Surgical Oncology Fellowship Director - Department of Otolaryngology-Head & Neck Surgery
National/International/Regional Committees and Service

Dr. B. Blakley
- Associate editor (otology) – Otolaryngology-Head and Neck Surgery (resigned July 2014)
- Associate editor (otology) – Journal of Otolaryngology-Head and Neck Surgery (resigned October, 2014)
- Canadian Chairman - Collegium Otolaryngologic Amicitiae Sacrum (CORLAS)

Dr. M. Barker
- Examiner – RCPSC Otolaryngology Exam Board

Dr. R. Gall
- Course Director, Canadian Resident Sinus Course, Canadian Society Otolaryngology
- Examiner – RCPSC, Otolaryngology
- Member of Specially Committee for Otolaryngology, RCPSC
- Member of the Surgical Foundations committee, RCPSC
- Member of the Principles of Surgery committee, RCPSC

Dr. A. Gooi
- Canadian Otolaryngology Undergraduate Working Group (CSO-HNS)
- Coordinator – Canadian Exam Bank in Otolaryngology (CSO-HNS)
- Medical Council of Canada Evaluation Exam - Test Committee (Surgery)

Dr. J. Hochman
- CSO – Head and Neck Surgery - Vestibular Working Group, 2010-present
- National Board of Directors, Anaphylaxis Canada
- Health Sciences Centre Clinical Ethics Service

Dr. J. Jones
- Otolaryngology – Head and Neck Surgery National in-Training Exam Committee,

Dr. P. Kerr
- Academic Dept. Heads’ Committee, CSO-HNS
- Head and Neck Committee, CSO-HNS
- Otolaryngology Specialty Committee, RCPSCs

Dr. D. Leitao
- CSO-HNS Representative, Canadian Audiology Association Infant Hearing Task Force.
- CSO Committee Designate
- Manitoba Lead Juvenile Onset Recurrent Respiratory Papillomatosis Working group
- Member/Co-Director for the Canadian Cochlear Implant Centres Group
- Member American Cochlear Implant Alliance
- Member Pediatric Otolaryngology working group – SCO-HNS
- Tabulating for Manitoba data for inclusion in National Census
- Member Advisory Committee MB Health
- Member Pediatric Surgical Council
Dr. F. G. Osler
- Presidents Council, Canadian Society of Otolaryngology-Head and Neck Surgery
- Global Health Committee, Canadian Society of Otolaryngology-HNS
- Continuing Professional Development Committee, CSO-HNS
- Long-range Planning Committee, CSO-HNS
- Nominations Committee, CSO-HNS
- Advisory Committee, Canadian Physician Health Institute
- Director, Canadian Society of Otolaryngology-Head and Neck Surgery Fund
- Chair-elect, Continuing Professional Development Committee, Canadian Society of Otolaryngology-Head and Neck Surgery
- Chair, Physician Health and Wellness Committee, Doctors Manitoba
- Regional Advisory Committee (RAC) 2, Royal College of Physicians and Surgeons of Canada
- Regional Representative, Canadian Society of Otolaryngology-Head & Neck Surgery

Dr. D. Sutherland
- Member – CSO-HNS Postgrad Committee
- Member RCPSC Specialty Committee
Awards and Honours - Faculty and Residents

Dr. Brian Blakley

Listed 9th of the top 20 articles in the domain by Updating Services "Who Is Publishing In My Domain?" www.WIPIMD.com

Dr. Adrian Gooi

Manitoba Medical Student Association – Teaching Award for Innovation, Medicine I - "This award recognizes teachers for their leading improvement, creativity and development of engaging and flexible learning experiences", 2014

Manitoba Medical Student Association – Teaching Award for Mentorship, Medicine I, nominated - " This award recognizes teachers who make themselves accessible through giving of their time, attention, and life experiences to mentor students through the pre-clerkship years", 2014

Manitoba Medical Student Association – Teaching Award for Inspiration, Medicine II, nominated - " This award recognizes teachers for their ability to convey the importance of what is being taught in an influential, stimulating and dedicated manner," 2014

Honorary Senior Stick for the Manitoba Medical School Association Awarded to faculty member "who students feel they can be open with, respect their opinions, care about student issues, and can provide insight into any topics of importance which arise throughout the year."

Dr. Jordon Hochman

Engineering Research Day, University of Manitoba, Poster Prize Runner-Up.
• Mixed Reality Temporal Bone Simulation

Dr. Jodi Jones

12th International Congress on Cleft Lip/Palate and Related Craniofacial Anomalies, Junior Investigator Award, Dr. Diana Khalil, 2013 (Supervisor Dr. Jodi Jones)

Dr. Paul Kerr

Outstanding Reviewer, J Oto HNS, 2014
## Department of Otolaryngology – Head & Neck Surgery
### Departmental Research Day 2014

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<td>Michael Gousseau</td>
<td>Mobile-based audience Response Systems</td>
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<td>Trung Le</td>
<td>Mannitol and the blood-labyrinth barrier</td>
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<td>Dr. Diana Khalil</td>
<td>3 laryngeal cancer survival rates: concurrent chemoradiation versus total laryngectomy</td>
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<td>DaveRishi Pahwa</td>
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<td>Dana Wong</td>
<td>Comparison of Cadaveric and Isomorphic Virtual Haptic Simulation in Temporal Bone Education</td>
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<td>Alexandra Thielmann</td>
<td>A review of Age-related Hearing Loss and Antioxidants</td>
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<td>Ms. Serena Nelko</td>
<td>Making lectures click: Audience response to clickers in Otolaryngology-Head and Neck Surgery pre-clerkship medical education</td>
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<td>Ms. Veronica Wong</td>
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<td>Mr. Bryna Tordon</td>
<td>Import of stereoscope in skill Training</td>
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<td>Ms. Esther Kim</td>
<td>Additional Factors in Ototoxicity</td>
<td>Blakely</td>
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Residents Abstracts/Poster Presentations 2013 - 2014

Publications


Poster Presentations

Khalil, D; Weiss, A; Jones, J; Gooi, A; Leitao, J; Wong, H; Reimer, H. Intracatheter low pressure oxygenation during balloon dilatation of subglottic stenosis. Australian Society of Anesthetists National Scientific Congress, Queensland Australia, Oct 2014

Khalil, D, Weiss, A., Jones, J; Gooi, A; Leitao, J; Wong, H; Reimer, H. Intracatheter low pressure oxygenation during balloon dilatation of subglottic stenosis. Australian Society of Anesthetists National Scientific Congress, Queensland Australia, Oct 2014


Le Trung N., Brian Blakley; Mannitol and Blood Labyrinthine Barrier Department of Otolaryngology Head & Neck Surgery, University of Manitoba, Research Day, May 2014.


Wong D., Kraut J., Unger B., Hochman JB.; Comparison of Isomorphic Cadaveric and Virtual Temporal Bone Simulations; Resident Research Day, University of Manitoba, May 2014

Wong D., Kraut J., Unger B., Hochman JB.; Comparison of Isomorphic 3D printed and Virtual Haptic Temporal Bone Simulation; Canadian Society of Otolaryngology (CSO), Ottawa Canada, May 2014


Wong D., Unger B., Kraut J., Hochman J.; Soft Tissue Modeling in Temporal Bone Simulation; Canadian Society of Otolaryngology, Banff Ab., June 2013

Visiting, Invited and Faculty Invited Professors

**Blakley, B.W, MD, FRCPC**
December 8, 2013
Invited Reviewer for
Otolaryngology Board examination
Saudi Arabia

**Darnbrough, A., MD, FRCPC**
2014
Guest lecturer
McGill Advanced
Airway Course

**Kerr, P., MD, FRCPC**
External Reviewer
Headship, Sunnybrook Hospital
University of Toronto

**Leitao, D., MD, FRCPC**
June 11, 2014
Invited Speaker/Moderator
International Endoscopy Day
Montreal, QC
International Pediatric Otolaryngology Update

**Massoud, E., MD, FRCPC**
Professor,
Department of Surgery,
Otolaryngology-Head & Neck Surgery
Dalhousie University
Professionalism: Do we measure up? / Rhinology beyond the sinuses

May 1st and 2nd, 2014
Guest Presenter
Resident Research Day

**Viallet, N., MD, FRCPC**
August 23-25, 2013
Prairie Otolaryngology Weekend
Winnipeg, Manitoba
Research Grants 2013-2014

Dr. Blakley

- Project: Mannitol and the Blood-Labyrinth Barrier—with Dr. Le
  o Granting Agency: Health Sciences Medical Staff
  o Amount: **$2,000.00** one year

- Project: Mannitol and the Blood-Labyrinth Barrier—with Dr. Le
  o Granting Agency: Department of Otolaryngology
  o Amount: **$2,000.00** one year

- Project: Science without Borders
  o Granting Agency: Government of Brazil
  o Amount: **$4,500.00**

Dr. Darnbrough

- Project: PI – Joint Application
  o Investigators: Andrea Darnbrough/Karen Kost
  o Granting Agency: CSO-HNS
  o Amount: **$25,000.00** (2013-2014)

Dr. Hochman

- Project: Games and Tele-rehabilitation of Balance Impairments and Gaze Dysfunction.
  o Granting Agency: CIHR – 316813
  o Amount: **$66,261.00** 2014

- Project: Prototyped Temporal Bones in Training
  o Granting Agency: Department of Otolaryngology Head and Neck Surgery
  o Investigators: Hochman J., Wong, Unger
  o Amount: **$1000.00** 2013

- Project: Does Stereoscopy Improve Surgical Skill Learning in Novice Operators Using a multimodal Temporal Bone Surgical Dissector?
  o Granting Agency: Department of Otolaryngology Head and Neck Surgery
  o Investigators: Hochman J., Tordon, Unger, B.
  o Amount: **$1000.00** 2013

  o Granting Agency: Department of Otolaryngology Head and Neck Surgery
  o Amount: **$1000.00** 2013

- Project: Mixed Reality Temporal Bone Surgical Simulation.
  o Granting Agency: Health Sciences Centre Foundation
  o Amount: **$75,000.00** 2012-2014
P. Kerr
- Terry Fox Foundation Grant: Multicenter Study: “Fluorescence Visualization of Early Oral Cancers”
  - CoPI: Dr. Catherine Poh, Scott Durham
  - (Depts. Of Otolaryngology and Dentistry UBC) $5,000,000;
  - Local PI: Dr. Paul Kerr
  - Amount: $75,000.00 2012-2014 $150,000 to U of MB site
    (50,000 per year for 3 years 2011-14).

D. Leitao
- Project: A Prospective, Randomized, Double Blind, Sham-Controlled, Multicentre, Phase 3 Study of Drug X Given as a Single Intratympanic Injection for Intra-Operative Treatment of Middle Ear Effusion in Pediatric Subjects requiring Tympanostomy Tube Placement
  - Industry-Sponsored research.
  - Investigators: Principal Investigator, Winnipeg HSC Site.
  - Local grant allocation: $50,000 (Oct 2013-2014)

D. Meen
- Project: “Mobile Communication Platform for improving Medical Care”
  - Investigators: Dr.’s Esmail, A., Meen, E, Vergis, A, Hardy, K, Taylor H
  - Government of Manitoba Commercialization Support for Business Program
    Grant: $42,200.00 (2014) (additional funding for 3 years contingent on 1 year benchmarks)

N. Viallet
- Project: Multicenter Study: Fluorescence Visualization of Early Oral Cancers. (COOLS Trial)
  - Investigators: CoPI’s: Dr. Catherine Poh, Dr. Scott Durham
    (Depts of Otolaryngology and Dentistry, UBC).
  - Local Co Principal Investigator
  - Granting Agency: Terry Fox Foundation
  - Local grant Allocation: $150,000 (2011-2014)
Department Committees

Executive
Drs. P. Kerr (Chair), M. Barker, D. Leitao, F. G. Osler, D. Sutherland

Postgraduate
Dr. D. Sutherland (Chair), B. Blakely, L. Garber, D. Leitao, F. G. Osler, N. Viallet, Two resident representatives

Undergraduate
Dr. A. Gooi

Continuing Medical Education
Dr. J. Jones

Research
Dr. B. Blakley

Standards
Dr. F. G. Osler, Dr. N. Viallet, Dr. R. Gall, Dr. D. Leitao

Promotions and Tenure
Dr. B. Blakley

Continuing Professional Development
Dr. B. Blakley

Tracheotomy Team Lead
Dr. Andrea Darnbrough (September-December 2014)

University Medical Group Executive Committee Representatives
Dr. Darren Leitao
Dr. Donna Sutherland