

Otolaryngology – Head and Neck Surgery

A DECADE IN REVIEW 2006-2016



Our goal

The Department of Otolaryngology – Head and Neck Surgery goal is to be the leading Program in Canada by excelling in the tripartite pillars of an academic department: conducting impactful research, providing the best experience for students and post-graduate trainees, and delivering the highest level of patient care in the country. These goals are integrally aligned with the missions of Schulich Medicine & Dentistry, Western University and the London Hospitals. We strive to implement an integrative approach where the three pillars are interrelated and foundational to everyday clinical/academic activities. We remain resolute to this principle while continuing to look for new opportunities for growth, partnership, and innovation.

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Message from the Chair

DR. JOHN YOO

I am delighted to present this report, which introduces our faculty members and summarizes the clinical, research and academic activities of the Department during the past decade.

Ten years ago, we accepted a challenge that we placed on ourselves: to think big. Bigger than our departmental size might suggest and strive to be a leading academic Otolaryngology – Head and Neck Surgery Program in Canada.

I feel privileged that during the past 10 years we have demonstrated that a department small in number can be highly successful and be an impactful clinical/academic presence within the broader environment that is the Schulich School of Medicine & Dentistry and the London Hospitals. Furthermore, I believe we have matured into one of the most influential Otolaryngology – Head and Neck Programs in the country.

We have created a culture of excellence and developed a profile that attracts exceptional talent. Our intensive clinical and academic progress has been achieved by recruiting the brightest Canadian graduates. We have been fortunate to see eight new faculty members join our Department during the past decade.

Our new members have achieved incredible success, including the completion of six master's degrees, six AMOSO Opportunities Fund Awards, two AMOSO Innovations Grant Awards, one ICES Faculty Scholarship, and we have established two translational research laboratories.

We are now poised as one of the youngest and most energetic Departments in the country with a sustainability strategy for enduring success. The senior members of our Department, some of whom have since retired, need to be acknowledged for their incredible mentorship of new faculty and their leadership during a period of immense transition.

Collaboration remains one of the hallmarks of our Department. This commitment is ever-present throughout

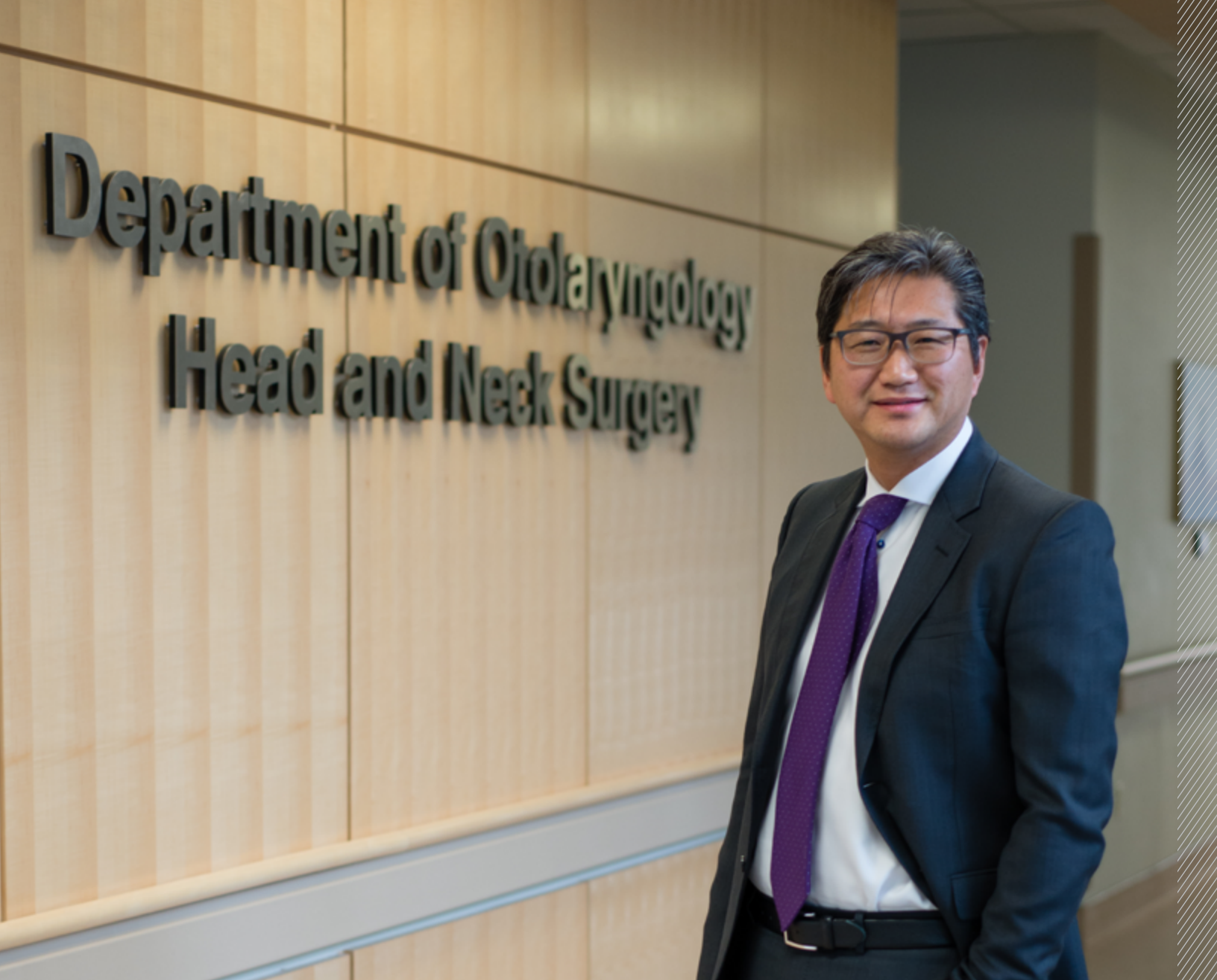
clinical care, research and education. Every faculty member is a highly skilled, fellowship-trained subspecialist, and intimately linked to broader programs, both clinically and academically. Every faculty member is cross-appointed to another clinical department and many are also members of basic science departments.

Research excellence is a priority. Our research productivity is proportionally among the highest of Schulich Medicine & Dentistry departments. During the past decade we have established two research laboratories: the Auditory Biophysics Lab and the Head and Neck Cancer Translational Research Lab. Both platforms have successfully obtained external, internal and industry grants; supervised graduate students at the master's and PhD levels; and generated impactful discoveries.

We are strong in all facets of education with our outstanding Postgraduate Residency Program leading the way. Schulich Medicine & Dentistry is one of the most sought after otolaryngology programs in Canada and we consistently match our top choices year after year. We are proud that during the past 10 years, we have graduated as many academic surgeons as any Canadian university and we are equally proud of graduating the highest calibre surgeons who serve their respective communities.

The quality of our clinical care delivery has never been stronger. Academic successes have been accomplished while expanding clinical breadth, complexity, and volume. We have structured our department with divisional and programmatic foci at each hospital, which has enabled efficiency in care delivery while optimizing academic productivity.

Administrative proficiency and stability have been invaluable to our Department's success, yet often go unnoticed. It is important to acknowledge the leadership and support from our hospital site leaders, divisional chiefs, academic portfolio chairs, and, of course, our central office staff.



On behalf of the Department, I would like to express our gratitude for the tremendous support from Schulich Medicine & Dentistry and hospital leadership. I am grateful to have been given the opportunity to serve and lead this Department during the past 10 years, and I deeply appreciate the incredible support, leadership, and friendship from the faculty, staff, and trainees.

Our Department has realized enormous change during my two terms as Chair/Chief and I feel privileged to have had the opportunity to witness this change. Change is often difficult but our members rose to the challenge.

We can feel proud to have forged a leading academic Otolaryngology – Head and Neck Surgery Department.

*Dr. John Yoo, MD, FRCSC, FACS
Professor and Chair, City-wide Chief
Department of Otolaryngology – Head and Neck Surgery
Schulich School of Medicine & Dentistry, Western University*

Message from the Dean

DR. MICHAEL J. STRONG

For the past 10 years, Dr. John Yoo has been leading the Department of Otolaryngology – Head and Neck Surgery. As Dean, I have had the great pleasure of working with him throughout his second term as Chair/Chief, and watching this Department achieve such success in all areas of their mission focused on education, research, and clinical care, while becoming an influential leader in Canada.

Known as the top postgraduate education (PGE) training program in the country in Otolaryngology – Head and Neck Surgery, the Department continually attracts some of the best and brightest students to its residency program. To its credit, the Department has proudly graduated more residents who have gone on to academic appointments than any other program in Canada. Dr. Brian Rotenberg now serves as the Director of the PGE program and is building on a strong foundation set out by his predecessor, Dr. Corey Moore.

Through the enthusiastic commitment of all Departmental faculty members and in response to health care demands, the undergraduate program has expanded its footprint – ensuring medical students have the knowledge and expertise they will need to treat and care for their patients. Faculty leaders such as Drs. Kevin Fung, Murad Husein and Kathryn Roth share their expertise and innovation to support undergraduate education at the School and on the national stage.

The strong research enterprise within the Department includes two highly active research programs: the Auditory Biophysics Lab and The Head and Neck Cancer Translational Research Lab. Significant external funding is bolstering these two labs, as well as a number of translational research projects focused on improving clinical outcomes for patients. The Department's research success has attracted a number of master's and PhD level trainees who bring with them new ideas and tremendous energy to the growing program.

At the heart of their research mission is a commitment to collaboration. This can be noted within every project and at every level. From the leadership amongst basic and clinical scientists, and cross-appointees from faculties at Western and around the world, to undergraduate students, medical students, residents and trainees, teams work collaboratively to identify best practice in throat and neck cancer treatments, along with new coping mechanisms for patients managing the impact of disfigurement following surgery or best placement for cochlear implants – to name just a few.

Nearly 10 years ago, Dr. Yoo set out a challenge to his Department to strive to be the prototype for academic Otolaryngology – Head and Neck Surgery Programs in the country. It's fair to say that through his leadership and the dedication of all the faculty and staff, they have achieved this goal.

I look forward to seeing continued growth and innovation in the years to come.

*Dr. Michael J. Strong, MD, FRCP(C), FAAN, FCAHS
Dean, Schulich School of Medicine & Dentistry
Distinguished University Professor, Western University*





Dr. Murad Husein
engages students
providing support
and guidance with
their studies

Undergraduate medical education: Innovations in teaching

There's youthful energy to the Department of Otolaryngology – Head and Neck Surgery's undergraduate medical program. It's fuelled by an enthusiastic and dedicated faculty driven to deliver a program that is innovative and forward thinking.

It's this energy, along with the commitment of every single

departmental faculty member who teaches in the program, that has helped create a significant footprint and educate students in otolaryngology at Schulich Medicine & Dentistry.

Dr. Murad Husein serves as the Director of the program. In his role, he oversees the administrative aspects of the program, sets the objectives of

courses, oversees the curriculum, sets exams, and on any given day can be found trouble-shooting.

The Department offers the full spectrum of undergraduate learning opportunities to medical students. From classroom lectures, observerships, and electives to clerkship selectives and case learning,

“Future students will have more exposure to learning through clinical skills and simulation, and greater access to online learning.”

—Dr. Murad Husein



Dr. Kevin Fung
teaches students
in the anatomy lab

Schulich Medicine & Dentistry students have numerous opportunities to learn about this highly specialized and critical aspect of medicine.

The outstanding reputation of the Department also attracts a number of visiting students annually pursuing electives to broaden their knowledge and skills, and to learn from the best.

And with about one-third of all primary care patient visits related to otolaryngology, it's critical that students have an intensive educational and training experience.

With this in mind, the Department has a goal to inspire students to learn more about the specialty and become more engaged in classroom learning, observerships, electives and selectives.

While the traditional lecture format forms the foundation of the program, the Department has introduced innovative approaches for engaging the students during the past 10 years.

Dr. Husein shared one example of his approach to teaching students about the ear. He engages the students to serve as both learner and patient, providing them with an interactive examination. During the session, Dr. Husein examines each student's ear, and then has the students do the same to each other. The students are then able to provide feedback to one another based on the two experiences.

Meanwhile, students who

participate in selectives are able to request opportunities to spend more time with one division or another that may interest them.

Dr. Husein credits Dr. Kevin Fung, his predecessor, and the UME program director for a decade, for instilling a spirit of innovation in the program. "I love teaching, curricular development and innovation," said Dr. Fung. "I want to be sure our students have access to the very best."

Considered commonplace today, e-learning was quite innovative nearly a decade ago. During his tenure as director, Dr. Fung used computer assisted learning to supplement lectures and cover common problems such as dizziness, and sore throats. This has become an important aspect in the education program.

He has also led innovations connected to interprofessional learning at the clerkship level, which includes the creation of e-learning modules, shadowing exercise, team assignments and the incorporation of interprofessional education in grand rounds.

The Department's culture and passion for teaching filters to the residents who enjoy the opportunity to become involved with teaching themselves, and in doing so are strengthening the program and the Department. Recently, several residents have been recognized for

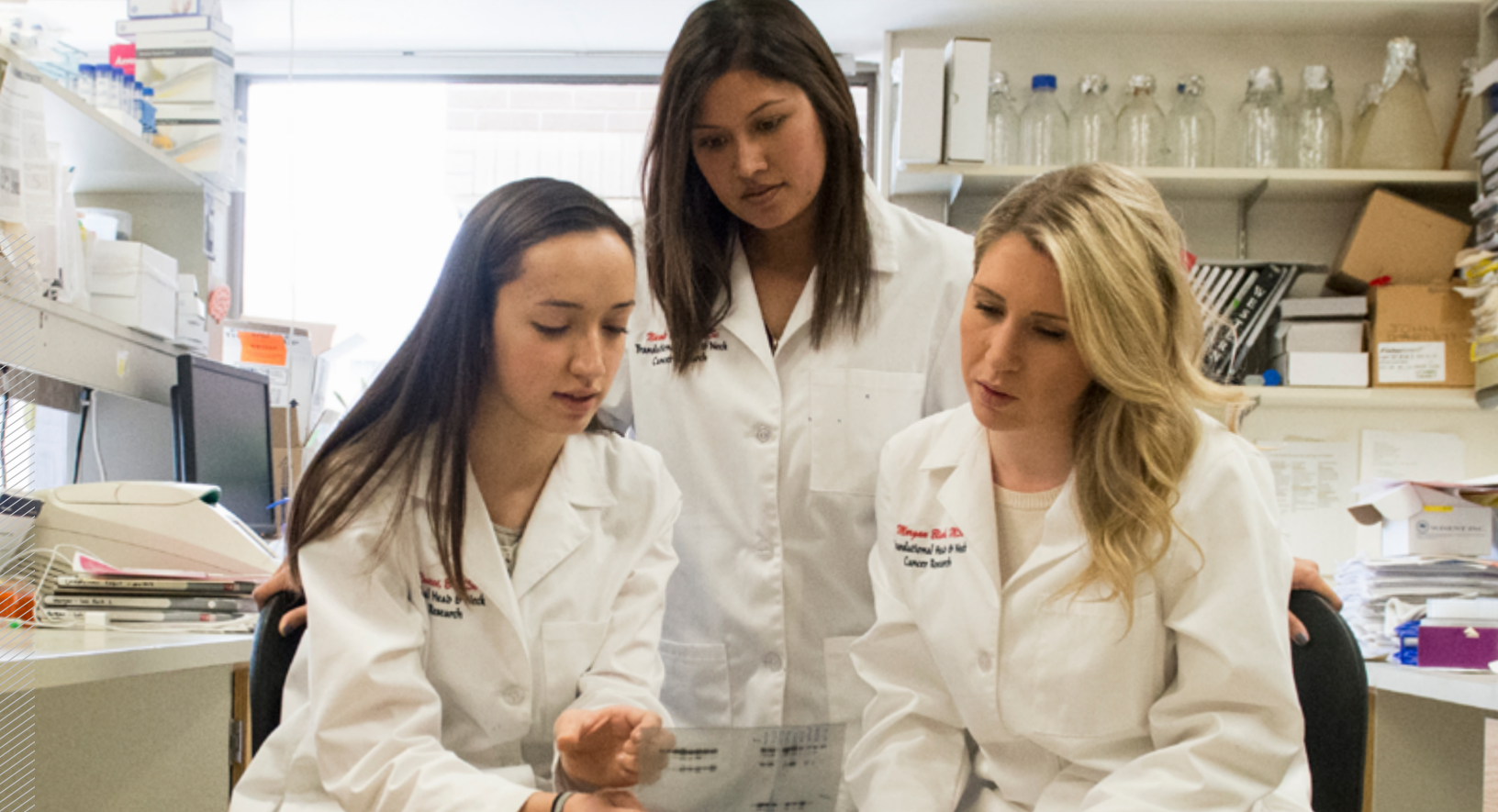
their work and were named to the University Students' Council teaching honour role. That honour has also been extended to Drs. Fung and Husein.

Teaching innovation in the program will continue and likely expand the already growing footprint for the Department. A plan to increase the use of technology, including the use of more apps; deepen their engagement with Schulich Medicine's Distributed Education Academies; increase the access to simulation; offer more interprofessional learning opportunities; and expand the curriculum.

"I see us having an even greater presence in the curriculum and reaching more students," said Dr. Fung.

Dr. Husein agrees, indicating that future students will have more exposure to learning through clinical skills and simulation, and greater access to online learning.

The growth of the undergraduate program will also increase the impact the Department has on patient care. "As a doctor, we help one person at a time," said Dr. Fung. "As teachers we are reaching hundreds of students each year, and indirectly touching the lives of the thousands of patients our students will see; it's gratifying to know that our work is making a difference."



LEFT TO RIGHT: Kara Ruicci, Nicole Pinto, Morgan Black

Graduate studies: A new dimension that enriches the department

Standing in an operating room and observing a surgery was the last place Nicole Pinto, PhD Candidate, ever expected to find herself. But there she was, just a few weeks into her training, dressed head-to-toe in scrubs, listening intently as Dr. Anthony Nichols thoughtfully explained the intricate procedure.

"I didn't expect to be able to go into surgeries," Pinto said. "It was amazing to watch and listen to him detail all the aspects of the surgery that were connected to my research."

Engaging graduate trainees in his clinical practice is just one of the innovative ways Dr. Nichols, and the entire faculty within the Department of Otolaryngology – Head and Neck

Surgery, inspires trainees to understand the impact of their research.

Pinto is one of three trainees that Dr. Nichols supervises. After completing her master's degree in Integrative Biology, she spent some time as a child-life volunteer in oncology at Sick Kids Hospital in Toronto. This sparked her interest in directing her energies into cancer research.

Arriving in 2014, Pinto joined Morgan Black, MSc'15, who was still working toward her master's at the time. While working as a research associate at the school, Black had a chance encounter with Dr. Nichols and learned more about his research.

She was immediately struck by the translational approach, and knew it was an opportunity she had to pursue.

Kara Ruicci, BMSc'15 is the new kid on the block. Having just graduated with her Bachelor's degree from the Schulich School of Medicine & Dentistry, she turned her dream into reality after being accepted into the MD/PhD program. She is beginning the seven-year program with her research, and will then complete the four years of medical training.

Like Black and Pinto, Ruicci is excited by the opportunity to work with a clinical department on translational research.

Making their way through the crowded waiting rooms of the London

“When you interact with patients, you’re able to see who might benefit from your work.”

—Morgan Black

Regional Cancer Program (LRCP) each morning provides an incredible source of inspiration to these three future leaders. Seeing the patients and their families, reminds each one of them why their work is so important. “Working in a cancer centre makes a difference,” said Ruicci.

“You see the patients in person,” added Black. “Sometimes, we can get caught up in the micro scale of the lab, but when you interact with patients, you’re able to see who might benefit from your work.”

Pinto is focusing on controlling anaplastic thyroid cancer through genetic characterization and the identification of genetic markers of drug sensitivity. Meanwhile, Ruicci and Black are focusing on head and neck cancer. Through her PhD project, Ruicci hopes to expand the current preclinical understanding of mechanisms mediating therapeutic resistance in head and neck cancers with the goal of developing novel combination therapies to provide

lasting cures. Black is working on robotic screening of cancer cell lines and hopes to identify effective clinical agents for head and neck cancer.

Amidst the rows of research benches in the LRCP, there’s a great energy and camaraderie between the trainees and all the teams on the floor. This helps them with their projects which at times can seem overwhelming and feel incredibly daunting.

The culture of mentorship within the Department is another factor that makes the training environment an ideal setting. It’s something that the aspiring scientists believe is a distinctive characteristic of their training program.

“Mentorship is a part of the Department’s culture,” said Pinto. “Dr. Nichols takes such care in guiding us and providing us with new and valuable opportunities such as attending and presenting at conferences.”

Ruicci agrees: “Mentorship was very important to me when I was looking at different labs for my PhD research. Dr. Nichols stood out; both in terms of his genuine investment and enthusiasm for our work, as well as his desire to let us take the lead and get creative with our projects.”

What stands out most for Pinto is the various ways in which trainees are mentored. There are structured and

informal opportunities. “It’s not just formal situations,” she said. “There’s an inclusivity to the department, and we are invited to participate in clinical rounds, attend and present at conferences and engage with the residents, which really makes a difference.”

“I remember one time I was getting a coffee at Tim Horton’s and Dr. Yoo was behind me in line. We ended up having a long conversation about my experience and my career,” added Black. “The faculty are very nurturing and really in tune with their students.”

As they mine through large datasets, integrate data from various collaborating labs, and tackle the learning curve that comes with working with collaborators across North America, they all agree there are days when they feel like they are taking one step forward and two steps back. As hardworking, passionate, independent thinkers who are striving to take full advantage of the unique opportunities before them, they have what it takes to successfully achieve their goals.

“It’s an amazing Department,” said Black. “I feel lucky to have been able to experience working here. I will always be proud of the work that I have done and look back with admiration and gratitude for the people, the mentorship and the opportunities.”



Postgraduate medical education: Training the next generation

What does it take to create the most prominent and sought-after postgraduate medical education (PGE) program in Otolaryngology – Head and Neck Surgery in the country?

According to Dr. Brian Rotenberg, director of the PGE program, you need an environment that breeds excellence with a unique approach to specialized training, a commitment to research, and a culture that embraces family values.

This rich environment exists within the Department of Otolaryngology – Head and Neck Surgery at Schulich Medicine & Dentistry. In the past 10 years, the Department has graduated numerous residents who have gone on to prominent academic appointments in both Canada and the USA, many of whom are developing international reputations, as well as many strong community-based surgeons. Graduates from this program also have a 100 per

cent pass rate in the Principles of Surgery Exam and Royal College of Physicians and Surgeons exams.

Each July, three new residents are welcomed to the highly competitive program. They are chosen from a pool of, on average, 30-40 applicants from across the country. “We recruit the best candidates,” said Dr. Rotenberg. “They are the high achievers who aspire to the same level of excellence that exists within the Department.”

Following an orientation with their peers from other specialties, they become immersed in a home-grown, structured program, featuring educational activities, labs, courses, didactic sessions, and examination preparation.

There is nothing general or commonplace about the Department’s five-year training program.

In the first year of the program, residents are off-service, and throughout the subsequent four years, responsibilities in surgical and clinical responsibilities increase.

Their time is divided across eight main areas of specialization including: rhinology and facial plastic surgery; general otolaryngology; otology and neurology; adult head and neck oncology; laryngology; and paediatric surgery. This approach allows residents to diversify their training and experience exposure to the true depth of the specialty.

Dr. Rotenberg credits the former PGE director Dr. Corey Moore, and Dr. John Yoo, Chair/Chief of the Department of Otolaryngology – Head and Neck Surgery, for this highly specialized approach.

“For the most part Otolaryngology – Head and Neck Surgery training across the country is very general; you are taught by the same person in multiple areas within the same division,” Dr. Rotenberg said. “However that’s not the case in our Department. Our unique divisional approach here and having faculty teachers who are all fellowship trained and have specialty expertise, allows for the best possible training.”

Throughout their five years in the rigorous program, residents also benefit from the strong culture of research.

“The Department’s research prowess is well-known and documented, and the reputation inspires residents to explore their own research interests. We punch above our weight as a department, when it comes to research,” Dr. Rotenberg said proudly. “It’s not uncommon for our residents to be found at international meetings presenting the outcomes of their work.”

The future promises to bring new innovations to the PGE program including medical education research and simulation. The biggest change on the horizon will be competency based medical education. “This will be a sea change,” said Dr. Rotenberg, “which, at its broadest sense, allows for more flexibility in training and will be more granular in how residents acquire skills.”

As the program director, Dr. Rotenberg is charged with administering the residency program. Between recruiting, liaising with leadership at the School

and the Royal College, developing innovative residency changes, and career counselling, the work is a very busy and important extension to his other roles as a surgeon and researcher.

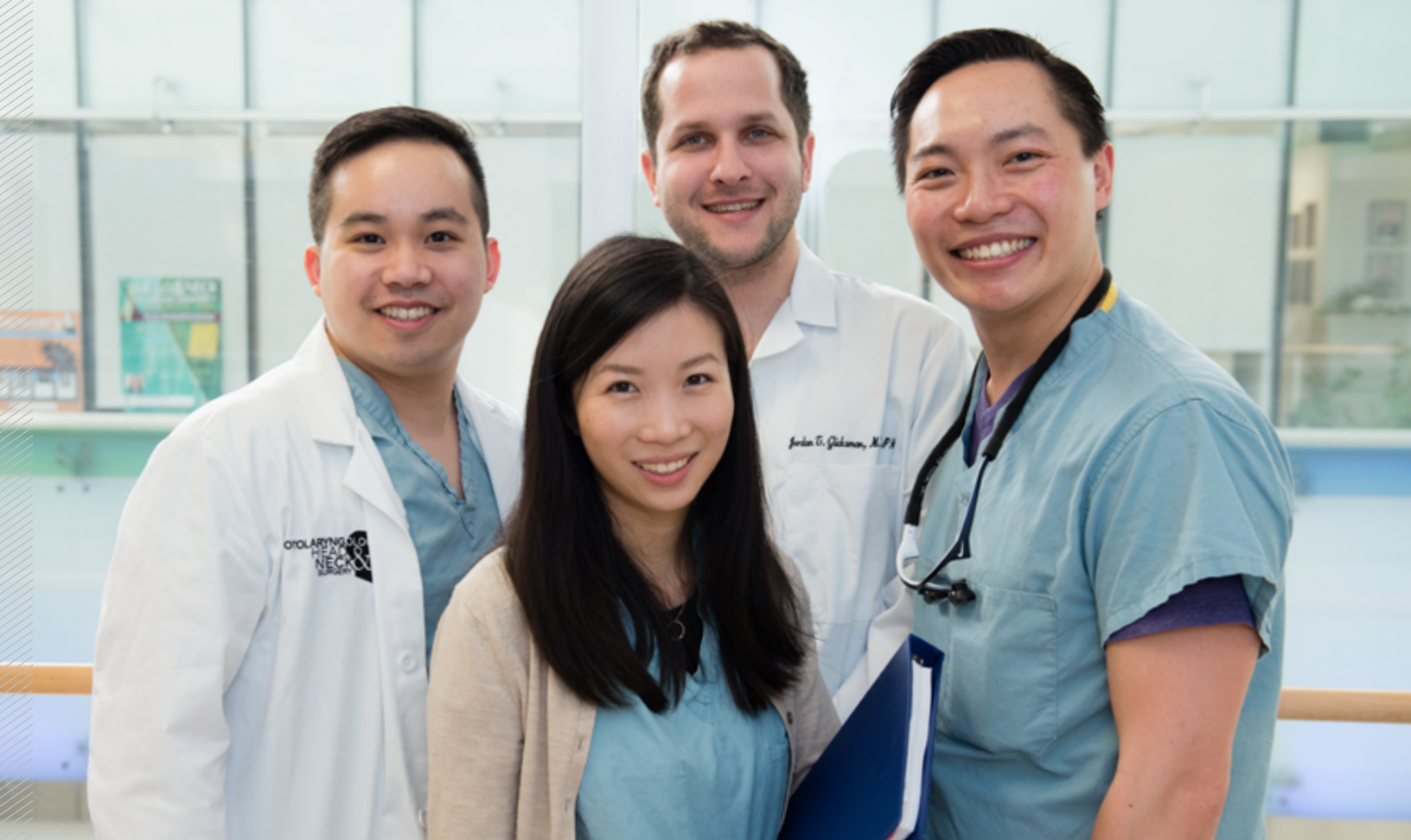
Dr. Rotenberg is grateful for the opportunity, as the benefits far outweigh any challenges. “The residents are so smart and enjoyable to work with, they keep me young,” he said. “It behooves me to keep up with them.”

For residents, the Department becomes a second home, which is due in large part to the great sense of family that permeates its culture. It could be the many hours they spend with each other or the shared values and commitment to excellence, but according to Dr. Rotenberg, all members of the Department, which includes the residents, look to one another as family.

“Our work brings us close together,” he said. “We face the challenges and celebrate our achievements together.”

Our unique divisional approach here and having faculty teachers who are all fellowship trained and have specialty expertise, allows for the best possible training.

—Dr. Brian Rotenberg



LEFT TO RIGHT: Drs. David Yeh, Samantha Tam, Jordan Glicksman, Winsion Chow

Graduating Residents of 2016

It was just a few weeks until their Royal College exams, Drs. Winsion Chow, Jordan Glicksman, Samantha Tam and David Yeh exuded a quiet confidence. For them, the past five years can best be described as a marathon – a long, steady journey that challenged them every step of the way, while inspiring them to attain the expectations of excellence that come with being a resident in the Department of Otolaryngology – Head and Neck Surgery.

The postgraduate training program is considered one of the toughest in the country. Each year, approximately 40 medical students apply for only a few coveted spots in the five-year program

that has a reputation for excellence and no room for complacency.

“Looking from the outside in, I saw a tremendous dedication to teaching and research, and this inspired me,” said Dr. Yeh, who completed his undergraduate medical education at the University of British Columbia before heading east to Schulich Medicine & Dentistry.

Dr. Yeh wasn’t disappointed when he arrived and neither were his peers. “The bar is set high from day one,” said Dr. Chow. “But that’s a good thing; it has forced all of us to rise to the occasion.”

Completing his medical degree at the Schulich School of Medicine & Dentistry, Dr. Chow was very familiar with the program and the faculty and

he wanted to train with the best. “You want to go into a program that gives you the opportunity to learn from the best surgeons in all the areas of otolaryngology,” he said. “During the past five years, we’ve been able to train in all surgical approaches - open, endoscopic, and microscopic surgery.”

Throughout their training, residents divide up their time between the four main sub-groups of specialization including: rhinology and plastics; general otolaryngology, otology and neurology; adult head and neck; and paediatrics.

Dr. Yeh quickly embraced this strategic approach to training and saw how it creates a solid foundation for

“It was great to be able to get in-depth training in all the different subspecialties. It presented me with opportunities for collaboration – which is essential in delivering patient care.”

—Dr. David Yeh

collaboration with peers. “It was great to be able to get in-depth training in all the different subspecialties,” he said. “It presented me with opportunities for collaboration – which is essential in delivering patient care.”

Dr. Tam agrees. “Gaining experience in the subspecialties is a great opportunity as a clinician and it helps you to refine your research,” she said.

As they progressed through their clinical training, the award-winning trainees have actively engaged in research. Collectively, the four have nine ongoing research projects and a slew of publications and presentations to their credit.

“Each year you are expected to get involved in a different research project, and the focus can change from year to year,” said Dr. Chow. “I came from a basic science background and adapted to oncology research, but then began getting more involved in research focused on the cost analysis related to medical equipment.”

Meanwhile, Dr. Glicksman took a year off from his residency to pursue a Master’s of Public Health at Harvard University. He’s grateful to the faculty who supported him during his graduate studies.

All four agree that the Department’s

strong leadership, faculty support and mentorship from their peers and surgeons contribute to the rich and supportive learning environment that has helped them to get through the more difficult times. “This is a tight-knit, collegial program,” said Dr. Glicksman, “We are surrounded by strong role models and mentors who help to nurture a team environment and make sure we don’t fall behind.”

“The faculty are with us the whole way through,” added Dr. Chow.

Dr. Tam agreed, sharing that the support doesn’t end upon graduation. “Their investment in us continues,” she said. “Throughout our time here, we’ve seen them do this with other senior residents – and we know that they will be there for us too once we have moved on to other roles.”

Reflecting on the past five years, the residents are modest about their achievements. “There were some definite milestones,” said Dr. Chow. “Such as doing our first surgery, inserting the first tubes, having your first on-call airway, and walking a junior resident through the procedures; these are our successes.”

They all agree that graduating will be the highlight. “When I started in the program, I asked myself, how am I going

to operate? I can barely suture,” said Dr. Tam with a smile.

“We knew we would make it through though,” added Dr. Yeh with a laugh. “I feel proud of the progress we have made during our residency and the difference we have made in people’s lives.”

Unfazed by challenge, the four soon-to-be graduates have their plans firmly in place for the next phase of their careers: Dr. Chow is hoping to set up a practice in general otolaryngology; Dr. Glicksman will be pursuing a fellowship in rhinology and skull-based surgery at the University of Pennsylvania; Dr. Tam is heading to MD Anderson Cancer Center for an advanced fellowship in head and neck oncology; and Dr. Yeh will be staying at Schulich Medicine & Dentistry also pursuing an advanced fellowship in head and neck oncology and microvascular reconstructive surgery.

They will join an elite group of surgeons across the country who have benefitted from the training at Schulich Medicine & Dentistry. And they will be sharing their expertise to enrich patient care experiences across North America – confident that their training has prepared them for what lies ahead.





Emergencies in Otolaryngology – Head and Neck Surgery bootcamp

The Annual Emergencies in Otolaryngology – Head and Neck Surgery Bootcamp has been held in conjunction with the Canadian Surgical Technologies & Advanced Robotics (CSTAR) each fall for the past four years. The enthusiasm for the simulation-based course is spreading, and it is rapidly becoming an international endeavour with participants from the United States taking part.

The 2015 course was no exception with 26 residents and 18 faculty representing 13 Otolaryngology programs from across Canada and the United States. They had the opportunity to experience exemplary teaching and foundational skills in postgraduate Otolaryngology – Head and Neck Surgery training from course

coordinators Drs. Kevin Fung and Kathryn Roth, as well as many others.

During the course, first and second year residents participate in skills stations with high fidelity models of emergency procedures like post-tonsillectomy bleed, posterior epistaxis, paediatric airway and tracheostomy. The interactive panel discussing on-call cases is a highlight. Skills are later consolidated in emergency scenarios using simulation manikins. Communication is emphasized in the crisis resource management training and valuable debriefing process. The residents enjoy another form of debriefing in the evening at the KLS Martin social night.

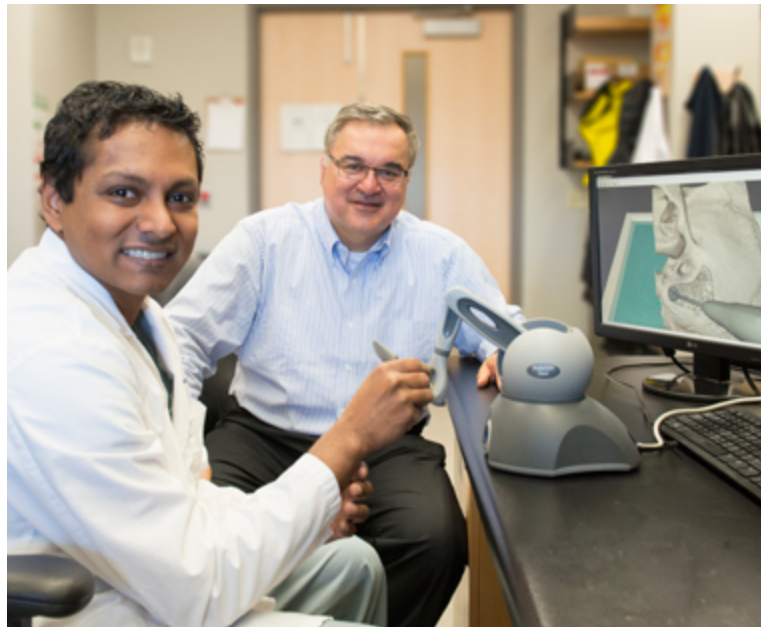
Courses such as this one are only possible through faculty participation. Many individuals have consistently

supported the course, volunteering their personal time, travel, and teaching expertise each year. It would not be a success without their genuine interest in teaching.

Special recognition is shared with Drs. Agrawal, Angel, Archibald, Belzile, Chin, Eibling, Glicksman, Hoy, Husein, Kherani, MacLean, Prasad, Propst, Rotenberg, Sowerby, Strychowsky, Thuot, Yoo, and to colleagues from Anesthesia Drs. Bruni and Church.

Industry support for this educational venture is also key to its success. From sponsorship for equipment and materials to financial support, sincere gratitude is extended to Karl Storz Endoscopy, Olympus, KLS Martin, Genzyme, Smith & Nephew, OSIS Medical, Medtronic, Baxter.

Creating new standards of patient care



LEFT: Dr. Lorne Parnes and Kim Zimmerman
ABOVE: Dr. Sumit Agrawal and Hanif Ladak, PhD

It's a warm summer afternoon, and a few hundred people are enjoying a picnic at London's Fanshawe Conservation Area. Although they aren't family members, they are uniquely connected. The picnic is the annual gathering of cochlear implant patients from the Department of Otolaryngology – Head and Neck Surgery.

The picnic is just one example of the strong relationship the Department develops with its patients. "We have such a good connection with our patients," said Dr. Lorne Parnes. "I have patients who I began treating when

they were young children, who will now call and ask if I will come watch them play basketball when they have a game in London," added Kim Zimmerman.

It's this strong commitment to patients and desire to serve as their advocates that drives their clinical and basic science research programs. "Our research is patient-centred," said Dr. Parnes. "We are all driven and want to get results for our patients."

Dr. Parnes is collaborating with Dr. Sumit Agrawal, Audiologist Kim Zimmerman and the remaining Cochlear Implant Team members on a study determining the benefits of

adult bilateral cochlear implantation. The current standard of care in Canada for adults is a single cochlear implant. The project has been five years in the making. The team believes results will clearly show the benefit of having two cochlear implants in comparison to a single cochlear implant or a cochlear implant in one ear and a hearing aid in the other ear (bimodal fitting).

Data collection has been completed on 18 patients between the ages of 20 and 80 years old with preliminary results showing that the second implant provides significant improvements. It's their hope that

once published the results will help to change the standard of care for cochlear implantation in adults.

It wouldn't be the first time Dr. Parnes was part of a research team that changed a standard of care. In 2011, along with Dr. Agrawal he published a study on intra-tympanic therapy in the Journal of the American Medical Association. Schulich Medicine & Dentistry participated as the only Canadian site in the 16-centre study.

Since its publication, the study has changed the management of a few conditions including sudden deafness and Meniere's disease. Thanks to the research, patients are no longer subjected to invasive surgery.

"We have the best job in the world," said Dr. Parnes. "We help to improve people's quality of life."

Hanif Ladak, PhD, an engineer and self-described math geek, is driven by the same desire to improve quality of life for people. He's been collaborating with Dr. Agrawal on a wide variety of basic science research projects for the past 10 years.

Their collaboration began as the result of a chance meeting when Dr. Agrawal was still a resident at Schulich Medicine & Dentistry. Together, they established the Auditory Biophysics Laboratory which focuses on imaging, virtual reality surgical simulation, and computer-assisted surgical planning.

By developing algorithms and using imaging, Dr. Agrawal and Ladak are studying the structure of the cochlea to improve the effectiveness with implants.

They are looking at the fine structure of the cochlea to develop image-processing algorithms to interpret clinical images. Their ultimate goal is to help guide audiologists in programming implants for improved recovery for the patients.

"The cochlea is like a black box — it's so tiny and even with a CT scan it's hard to see where the cochlear implant went," said Dr. Agrawal. "We hope the algorithms will help to guide placement, localize the electrode within the cochlea, and program the electrode."

In 2013, Dr. Agrawal performed the first Bone Bridge implant in North America. Now he's working with Ladak to determine different surgical placements and configurations for Bonebridge devices. They are hoping to determine the optimum placement and fixation methods.

Meanwhile, they are also developing highly realistic computer models of the ear canal and middle ear to simulate acoustical and mechanical behaviour. These models can be used to better interpret hearing tests, design implants and optimize surgical procedures.

The models have helped in understanding the role of the eardrum's fibre systems in sound transmission

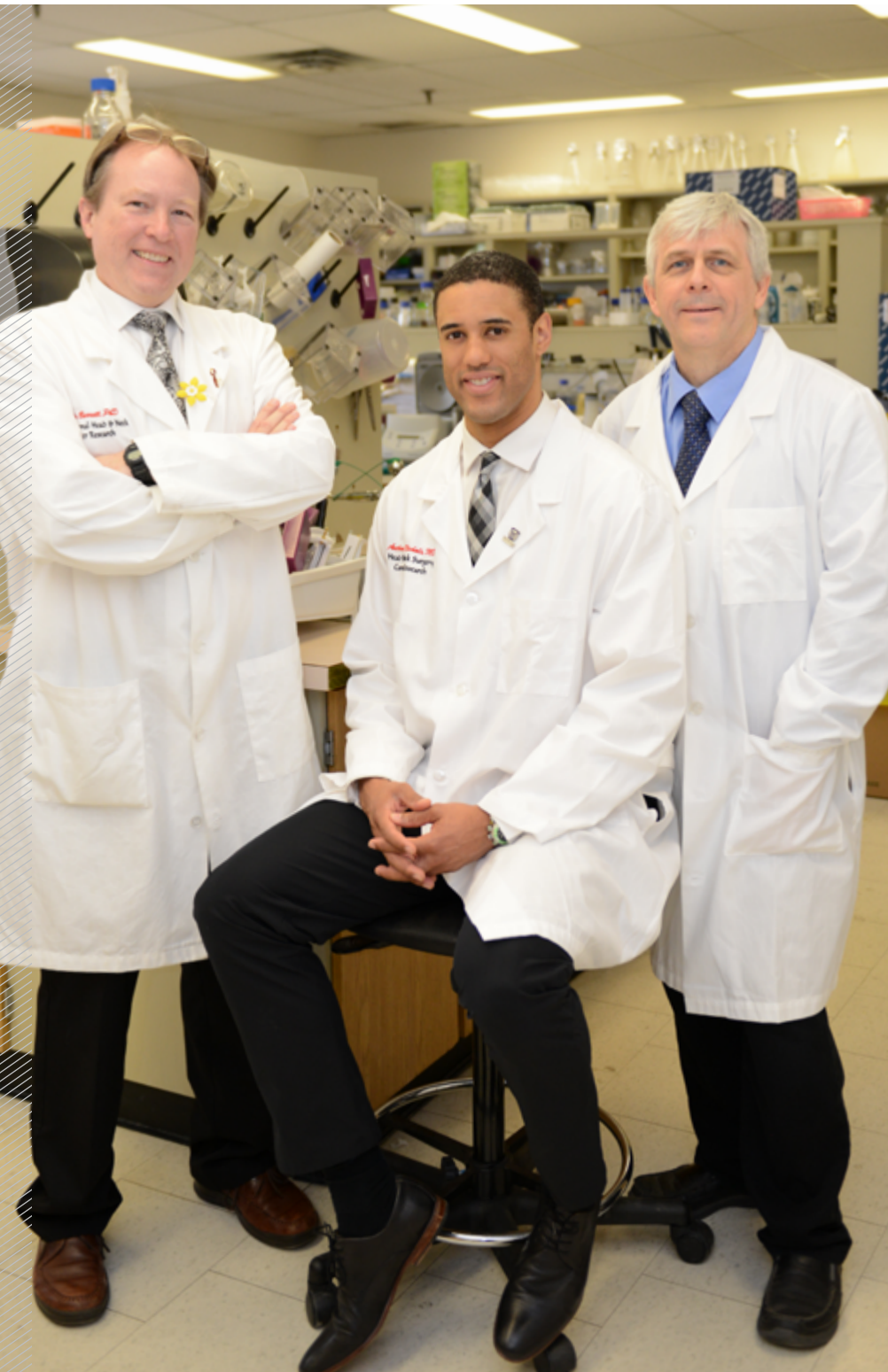
and have led to collaboration with researchers in chemical and biochemical engineering at Western University. Together they want to create rapidly healing eardrum grafts to repair perforations. The grafts encourage restoration of the eardrum's fibrous ultrastructure and can be used in the clinic as opposed to a costly operating-room setting.

The duo has a keen interest in enriching training, not only for residents but also for allied health professionals and family doctors. Because of this, and with the knowledge that simulation is an effective education experience, Dr. Agrawal and Ladak have developed two simulation systems.

An otoscopy simulator is used in developing the skill for diagnosing conditions such as ear infections. Their simulator has been commercialized and is a cloud-based system that can be easily accessed.

They are also working on a virtual reality simulation system for myringotomy training, and are getting the Department's residents involved to assist with evaluating the simulator.

Enthusiastic about the hope for all their research projects, the four colleagues derive their energy and inspiration from their patients. They are maximizing the power of technology to improve quality of life.



LEFT TO RIGHT: John Barrett, PhD, Dr. Anthony Nichols, Joe Mymryk, PhD

Pushing Boundaries

Dr. Anthony Nichols is driven in his research with a desire to do better for his patients. He is working to find novel cancer treatments with improved cure rates and less side effects.

“We are constantly pushing the boundaries of our work that has direct clinical relevance and can improve patient care for patients with head and neck and thyroid cancer,” said Dr. Anthony Nichols. “That’s our goal.”

Dr. Nichols is an associate professor with the Department of Otolaryngology – Head and Neck Surgery. When he’s not in the operating room or the clinic, he’s in the lab working alongside a team of colleagues including John Barrett, PhD, and Joe Mymryk, PhD, as well as three graduate trainees, residents and medical students.

The profound and negative impact head and neck cancers can have on patients drives their work testing the most effective treatments and identifying the least toxic therapies for patients.

“Our plan is to take the findings from the lab to the clinic,” said Dr. Nichols. And then using a stepwise approach to develop new drugs.

One project involves robotic screening of 50 cancer cell lines with thousands of drugs to determine which drug is more effective with the cell lines.

"We are trying to correlate the genetic profile of the cell lines with the response to the therapy to determine which drug is appropriate for each patient," Dr. Nichols explained.

They aren't stopping there, however. Knowing that therapies can work in cell lines, but produce debilitating side effects or are ineffective in patients, they are introducing human tumours into mouse models to monitor outcomes with the top drugs identified in the cell line studies. These mouse models are much more accurate predictors of what will work in patients. "By using a large number of mouse models we can effectively run a 'virtual clinical trial' in the mice, which is much cheaper than a human trial and doesn't put patients at risk," said Dr. Nichols.

Using this strategy, Dr. Nichols and his team are taking their first drug finding into a clinical trial in early 2016. With industry funding they will be treating 30 patients with a drug called BYL719 prior to surgery to see if it reduces the size of the tumours.

The Nichols lab is also working on a rare study focused on anaplastic thyroid cancer. A hugely aggressive form of cancer, with poor prognosis, it

is considered one of the most lethal human malignancies. In most cases, there is very little that can be done in terms of treatment once it is diagnosed.

For nearly four years, Dr. Nichols has been working with collaborators at Toronto, Harvard, Johns Hopkins, MD Anderson, British Columbia and Chicago to put together a large cohort of these rare tumour samples. They are completing a comprehensive genetic analyses of the tumours to identify all the genes that can predict response to treatment. Their goal is to use the genetic findings to identify drugs for future trials.

Lastly, the dramatic rise in oropharyngeal cancer and development of transoral robotic surgery for these malignancies, has led Dr. Nichols to yet another area of research. Alongside Dr. Kevin Fung, Dr. Nichols performed the first robotic surgery to treat throat cancer in the country. The approach can be used to treat tonsil and base-of-tongue cancers.

There is a slowly growing epidemic of these forms of cancer in young people due to the rise of the human papilloma virus. Consequently, there is a growing interest and demand for the robotic procedure.

While the most common treatment remains chemotherapy and radiation, the possible side effects of feeding

tubes, hearing loss, nerve toxicity and dry mouth have led to an interest to push forward with the robotic treatment.

"Despite the potential benefits of robotic surgery, it has yet to be proven that it is superior to the non-surgical options," said Dr. Nichols, arguing that robotic surgery is still experimental.

Along with Radiation Oncologist Dr. David Palma, Dr. Nichols started a trial in 2012 to compare the effectiveness of surgery over chemotherapy and radiation. The trial has been expanded to include sites in Australia and across Canada with collaborators at the University of British Columbia, McGill University, the University of Ottawa and Princess Margaret Hospital.

The study has the potential to establish a new standard of care in cancer treatment.

Dr. Nichols is driven in his research with a desire to do better for his patients. Although he receives tremendous satisfaction from his clinical work, the sometimes debilitating impact of treatments on his patients inspires him to push the boundaries of his research in order to find novel treatments with improved cure rates and less side effects.

Partner in research: Philip Doyle, PhD



There are moments in our lives that leave us changed forever. Philip Doyle, PhD, experienced one of these moments upon meeting his first patient as a young student clinician.

The middle-aged man was a cancer survivor who no longer had a voice box, appeared depressed, and had no support systems in place. It was this encounter that made Doyle realize he wanted to work with people with head and neck cancer, and help them in whatever way he could.

For the past 30 years, Doyle has dedicated a large portion of his research to the areas of voice abnormalities, secondary to treatment for laryngeal cancer, and quality of life issues for people with head and neck cancer.

Doyle, a Professor and Senior Research Scientist, is cross appointed to the Department of Otolaryngology – Head and Neck Surgery, a Professor of Rehabilitation Sciences, and Communication Sciences and Disorders, with the Faculty of Health Sciences, and the Director of the Voice Production and Perception Laboratory and the Laboratory for Well-Being and Quality of Life in Oncology at Western University.

While the head and neck cancer population is relatively small in numbers, it is increasing dramatically. Patients are now younger, some in

their late 20s and early 30s, and generally healthier than those living with other forms of cancer. The current treatments are devastating, with immediate concerns for patients centred around the ability to speak, eat and swallow.

Meanwhile, the impact and consequences of treatment can lead to disfigurement, loss of ability to communicate verbally, distress, depression, and poor body image. “The impact of the treatments cuts across the board from physical to psychological to social,” said Doyle, adding that because the patients are younger they may live for many years post treatment, making this work so important.

“Our goal is to focus on areas of functioning that really impacts peoples’ ability to live a normal life, as much as possible, after they have been treated,” Doyle said.

Current research is focusing on body image concerns for people treated with head and neck cancers. There can be substantial changes in facial appearance after surgery creates immense limitations for patients and the stigma can be significant. Doyle’s team’s research is investigating how body image for these patients influences their psychological and social well-being.

Past research projects have spun-off into different opportunities leading Doyle’s team to new areas of investigation.

One such project focused on the level and impact of patient and caregiver distress and how it may alter at time of diagnosis, a year post diagnosis and throughout treatment.

“There’s a shared and strong commitment to patient advocacy in this Department.”

—Philip Doyle, PhD

They found that the shared distress was equal between the caregiver and the patient. The finding was followed with a consideration focused on screening for levels of distress to allow for intervention at specific points throughout the journey.

Doyle is grateful to Dr. Yoo’s open-mindedness, investment and support in this quality of life work. “There’s a shared and strong commitment to patient advocacy in this Department,” said Doyle, emphasizing the keen awareness the surgeons have of communication apprehension, body issues, and distress that their

patients deal with throughout diagnosis and treatment.

“The folks here are compassionate, energetic and open-minded, and there is willingness to look at things that aren’t typical.”

The strong culture of research within the Department has created an opportunity to pair Doyle’s graduate trainees with residents. “The ability to connect people from different educational backgrounds, who have different career goals but who share a common commitment to improving the lives of patients, has been an unexpected but significant achievement of the involvement of this research in the Department,” he said.

Throughout his career, Doyle has supervised more than 80 graduate trainees and mentored numerous medical students and surgical residents on a variety of projects. Through this mentorship he has learned patience and benefitted from his trainees’ youthful brilliance and enthusiasm.

The patients he has worked with have taught him how to live his life.

“I was in my 20s when I first started my clinical placements, and since then I have always asked to work with cancer patients,” he said. “They are my motivation and inspiration; they all taught me about living my life to the fullest.”

Collaborating for success: Dr. David Palma

“We are creating a tool for patients so they can be better informed when making decisions about their care,” said Dr. David Palma when explaining one of his many research collaborations with the Department of Otolaryngology – Head and Neck Surgery.

Dr. Palma is a Radiation Oncologist and Clinician-Scientist, and is working alongside Drs. Kevin Fung and Alexander Louie, along with graduate and postgraduate trainees to create a web tool that will allow patients who have oropharyngeal (tonsil or base-of-tongue) cancers better determine the treatment option that they feel most comfortable receiving — chemotherapy and radiation or transoral robotic surgery.

Today, the most common treatment for these forms of cancer remains chemotherapy and radiation, Dr. Palma explained. However, there is a growing interest in, and demand for, the robotic procedure.

The robotic procedure, which has become extremely popular south of the border, has yet to be proven as superior. Currently Dr. Palma is working with Dr. Anthony Nichols, as well as colleagues across several sites in Canada and one in Australia, running a randomized trial to compare the

effectiveness of chemotherapy and radiation versus robotic surgery.

With the potential of two treatment options before them and the anxiety that accompanies a cancer diagnosis, many patients may be uncertain how best to proceed with their own treatment options. And that’s where the idea for the decision making tool came from. It’s an approach that has proven to be effective with breast and prostate cancer patients for some time.

**“David Palma’s
academic and
clinical collaboration
with our Department
is one of the keys
to our success.”**

—Dr. John Yoo

“We know it’s difficult for patients to make informed decisions about their treatment when they have just heard news of their diagnosis,” said Dr. Palma. “In order to truly offer patient centred care, and engage our patients in shared decision making, we have to build tools which aid them in deciding how best to move forward. We believe this tool

will make a difference.”

The tool is a website, designed by Grace Scott, MSc’15. Together with radiation oncology resident Dr. Jaqueline Lam, Scott implemented the site which provides clear and thorough descriptions of the treatment options, including the side-effects and potential outcomes. Users have the opportunity to learn more about what they can expect from either option while also answering a series of questions helping them to arrive at a decision.

Currently the tool is being piloted with 40 volunteers who log onto the website and are presented with a scenario of a patient with tongue or throat cancer. Once the pilot with volunteers has been completed, the tool will be further tested with patients who have had head and neck cancer and who have completed their treatment. After that phase, the tool will be rolled out to patients actually making treatment decisions. By engaging patients in the development process, Dr. Palma hopes to strengthen the tool further and better understand the needs of patients.

Dr. Palma expects that in the next 18 months to two years, the trial comparing the effectiveness of chemotherapy and radiation versus

robotic surgery will be complete. At that time, patients will likely be in a better position to choose between treatment options. With the testing complete, the web tool will be easily incorporated into care environments.

For Dr. Palma, it will become just one more opportunity to engage patients in the decision making about their health and well-being.



The sound of a technological revolution

DR. MATTHEW BROMWICH, RESIDENT ALUMNUS ('07)

During his undergraduate studies in cellular, molecular and microbial biology, Dr. Matthew Bromwich's keen analytical mind was drawn to the hands-on approaches of clinical research, driving him to pursue a career in medicine.

But, it wasn't until his residency in the Department of Otolaryngology – Head and Neck Surgery at the Schulich School of Medicine & Dentistry that Dr. Bromwich fully realized the ways in which he could connect research to his passion for

solving complicated problems with simple, innovative solutions.

As a trainee in the Department, Dr. Bromwich found himself in the ideal setting to launch his own investigations using the technological facets of the ear, nose and throat field while being taught the importance of caring for patients.

"When I finished medical school, I felt as though I didn't know anything other than the language," explained Dr. Bromwich. "The all-consuming experience of residency gave me real-world experience and the capacity to put patients first."

Today, as a paediatric surgeon and lecturer, Dr. Bromwich credits his numerous mentors for helping him to develop his zest for meeting and overcoming challenges. He recalls how, in the intensity of the program, he was profoundly transformed by receiving the freedom and support to find answers in his own way.

"Calm seas do not good sailors make," said Dr. Bromwich. "You need to be challenged to become better at what you do. The program was challenging." He added that the School also provided him with an environment that fostered curiosity, a critical element to research.

It is this spirit of independence and curiosity that led Dr. Bromwich to advance his career, not only as a surgeon, but also as an entrepreneur

and inventor for his own company, Clearwater Clinical. Using the latest and most available mobile technologies, he is determined to create cheaper, more accessible solutions for the endoscopy, audiology and vestibular markets that can be easily used in places like Uganda, Guyana and Haiti.

Through his research in treatments for dizziness, mobile hearing testing, video endoscopy and surgical airway reconstruction, Dr. Bromwich has created technologies like SHOEBOX Audiometry, an audiometer that runs on an iPad and is used to test hearing in adults and children. As the first of its kind to be validated, the test has made its way to the palms of hands in more than 16 countries including Guatemala, Haiti, Mexico, and North Korea; it is also used to test the hearing of Ebola survivors in Sierra Leone.

As he continues to expand his research and developments at Clearwater Clinical, Dr. Bromwich finds his eyes focused on the future while he listens to the voices of the past.

"Your mentors are with you for the rest of your life. In my practice, I realize how much I owe to them," said Dr. Bromwich. "I am extremely grateful for the training I received at Schulich Medicine & Dentistry."



An adventure of a lifetime

DR. PATRICK GULLANE, RESIDENT ALUMNUS ('75)

Dr. Patrick Gullane's destiny unfolded quickly and clearly before his eyes at a young age.

Born in the little town of Ballinasloe on the West Coast of Ireland Dr. Gullane's childhood revolved around the community hospital, which his father helped to build. Meeting the many doctors and surgeons who frequented his mother's bar and restaurant sparked his fascination with hospital life.

Dr. Gullane was accepted into medical school at the National University of Ireland - Galway. Following graduation, he attended the Schulich School of Medicine & Dentistry for his residency. It gave him the opportunity to attend a top program and travel.

"I wanted to see the world and explore new avenues, new places, and new opportunities. I was always the kind of person who explored," Dr. Gullane recalled.

Exploration was a key component of the program at the time. Residents were tasked with the responsibility of finding teachers outside of their specialty and structuring their own lectures. This experience was invaluable to Dr. Gullane.

"My experience as a resident helped me mature," said Dr. Gullane. "It also helped me with self-guidance, making me a better leader."

Dr. Gullane also benefited from the clinical exposure of the program, and from the direct guidance from his many

mentors. "The faculty were incredibly helpful in their support and quite unique. They were very open to discuss cases and continually educate you," said Dr. Gullane.

By experiencing a wide range of surgeries and engaging with the faculty, Dr. Gullane developed a personal dedication to making advances in education and research, which he later furthered in his appointment to the School's Department of Otolaryngology – Head and Neck Surgery in 1978.

Dr. Gullane is currently Professor and Former Chair and Otolaryngologist-in-Chief at the University of Toronto, and holds the Wharton Chair in Head & Neck Surgery at the University Health Network/University of Toronto. His research focuses on HPV outcomes in the head and neck, as well as approaches to skull base surgery.

Throughout his distinguished career, Dr. Gullane has earned numerous awards for his extensive contributions to the field of head and neck oncology and reconstruction, including an appointment as a Member of the Order of Canada in 2010, and a Member of the Order of Ontario in 2015.

When he is not balancing his roles as a clinician-researcher and surgeon, he is packing a single carry-on bag and travelling with colleagues to develop a global standard of care.

"I continue to feel extremely proud of my Alma Mater. Under the leadership of my good friend and prior trainee, Dr. John Yoo, the Department has evolved over the past 10 years from one of excellence to one of the most prestigious departments in otolaryngology in Canada and North America. Dr. Yoo's dedication, passion, leadership and enthusiasm to create change is palpable. His faculty, in all the subspecialty domains, excel as superior clinician-researchers, educators, leaders and innovative surgeons. I am indebted to Western University for the opportunity to excel in my professional career," said Dr. Gullane.

Dr. Gullane will continue to explore the world and the changes he can make within it for as long as he can. As his motto from a well-known saying goes: 'If you can imagine it, you can achieve it. If you can dream it, you can become it.'



Facial Plastic and Reconstructive Surgery

DIVISIONAL REPORT: DR. COREY MOORE

The Division of Facial Plastic and Reconstructive Surgery became a part of the Department of Otolaryngology – Head and Neck Surgery on October 15, 2008, with the support of Dr. John Yoo and faculty. It was the first Division of Facial Plastic and Reconstructive Surgery in an academic department in Canada. Members include: Drs. Kathryn Roth, Leigh Sowerby and Corey C. Moore as Division Chief.

The Division has a productive clinical and academic program that is based at three sites: St. Joseph's Hospital, Victoria Hospital (London Regional Cancer Program) and the Woodfield Surgical Centre. This program embodies the Division's enduring mission to provide training to undergraduate and post graduate trainees in the area of Facial Plastic and Reconstructive Surgery.

The entire faculty of the Division has participated in undergraduate medical teaching, and provides teaching and surgical training in Facial Plastic Surgery to residents at St. Joseph's Hospital. In January 2014, the Division and Department hosted internationally renowned Facial Plastic and Reconstructive Surgeon, Dr. Shan Baker, as a Visiting Professor. Dr. Baker presented talks on reconstructive nasal surgery and reviewed difficult cases with residents involving facial reconstruction.

Teaching extends to graduate supervision. Current graduate trainees include Dr. Michael Brandt in the PhD program and Ms. Rootu Joshi in the MSc program. Members of the Division also support the organization of the Annual Canadian Facial Plastic and Reconstructive Surgery Educational Day in Toronto as well as

content covered at the conference. Additionally, lectures are continually given at the Canadian Society of Otolaryngology – Head and Neck Surgery's annual meetings. Lectures and lab demonstrations are also given by members through AO North America at the Principles of Operative Treatment and Craniomaxillofacial Trauma courses.

Currently the Division has nine active Research Ethics Board projects and five peer reviewed publications for 2015. Members play active roles in many local, national and international associations and boards. One example includes Dr. Moore representing Canadian Facial Plastic Surgeons on the International Federation of Facial Plastic and Reconstructive Surgery, which provides educational courses to surgeons around the world.

The Division of Facial Plastic and Reconstructive Surgery's goal is to provide training that will be the foundation for future surgeons in the broad field of Otolaryngology – Head and Neck Surgery, Plastic Surgery and Ophthalmology. The Division continues to provide vital training in the area of Facial Plastic and Reconstructive Surgery that is mandated by the Royal College of Physicians and Surgeons of Canada.



Head and Neck Oncology and Reconstructive Surgery

DIVISIONAL REPORT: DR. JOHN YOO

The Division of Head and Neck Oncology and Reconstructive Surgery was the first division established within the Department of Otolaryngology – Head and Neck Surgery in 2003. Prior to 2003, major head and neck surgery was spread across multiple sites in the city. With the consolidation of the program at Victoria Hospital, London Health Sciences Centre, the Division was formed. The goal is to provide state-of-the-art of clinical care while being international leaders in education and research.

Since its inception the Division has continued to grow and flourish and now consisting of four faculty members. As provincially designated Head and Neck Cancer site, it provides surgical care for Southwestern Ontario and is one of the largest programs in Canada.

In the Division, we constantly strive to innovate in order to improve the quality of life for head and neck cancer patients. The ORATOR study is one example where we are leading the way. Our randomized clinical trial evaluating transoral robotic surgery is the only one of its kind in the world and it has now expanded to numerous centres across Canada and in Australia.

Reconstructive surgery has always been a strength of the program and we have contributed new surgical approaches that have been adopted beyond Canada. Primed with this distinction, a clinical fellowship in Head and Neck Oncology and Microvascular Reconstruction was established in 2006. This advanced training following a postgraduate residency is intended for surgeons who are poised to make the greatest contributions to their respective communities. It's gratifying that as our Division celebrates its tenth anniversary the privilege of training surgeons from

across Canada and around the globe has been realized.

The four members are tremendously collaborative in our approach often working together, sharing and caring for patients together. Each member has a unique clinical focus and the division has been strategic in developing complementary academic priorities with each recruitment. This has enabled a rich environment that fosters both clinical and academic collaboration.

Dr. Yoo joined the Department in 1997. He helped establish the division and has served as the division chief and the supervisor of the clinical fellow-ship program.

Dr. Fung joined the department in 2004 and has spearheaded the laryngology domain of head and neck surgery. He has distinguished himself as a superb mentor for undergraduate and postgraduate trainees, and has an international reputation in Medical Education. He was instrumental in creating the Canadian Undergraduate Education Committee and served as the first National Chair. Dr. Fung created "The ENT Bootcamp" for junior residents across Canada and we continue to host this course annually.

A major milestone for the department and division was the creation of the Translational Research Laboratory in Head and Neck Cancer. In 2009, Dr. Anthony Nichols was recruited as a surgeon-scientist to spearhead our translational research program. During the ensuing six years, this lab has attained national and international prominence. Under Dr. Nichols' directorship, this platform has successfully recruited and mentored the brightest graduate students, has received millions of dollars in grant fund, and generated high-impact discoveries.



With the creation of ICES Western, "Big Data" has also become an important focus for the Faculty and our division. Partnering with ICES Western, Dr. Danielle MacNeil was successfully recruited as the fourth Head and Neck Surgeon in 2012. With departmental support, she successfully completed a Master's Degree in Clinical Epidemiology and Biostatistics from Western and the ICES Faculty Scholars Program. Dr. MacNeil has now been promoted to the status of an independent ICES Scientist and is poised to make significant contributions through the ICES platform.

During the past 10 years, the Division of Head and Neck Oncology & Reconstructive Surgery has played a major role in enhancing the clinical and academic profile of the Department of Otolaryngology – Head and Neck Surgery. The program has epitomized a cohesive and progressive approach to patient care and academic medicine, has been a leader in community partnership, and has established itself as an important program within the London Hospitals.

Otology/ Neurotology

DIVISIONAL REPORT: DR. LORNE PARNES

The practice of Neurotology commenced at the Department of Otolaryngology – Head and Neck Surgery at Western University in 1987 with the introduction of the lateral skull base and cochlear implant programs. Currently Dr. Lorne Parnes and Dr. Sumit Agrawal are the members of the Division of Otology/Neurotology.

Dr. Parnes, Divisional Chief and former Department Chair, joined the Department in 1987 following his fellowship training in otology-neurotology at University of Iowa Hospital Hospitals and Clinics. Dr. Parnes' primary research interests/specializations are in cochlear implant

surgery and outcomes, lateral skull base surgery, sudden hearing loss and vestibular disorders such as BPPV, Meniere's disease and superior canal dehiscence.

Dr. Agrawal joined the Department in 2008, following his Fellowship training in Neurotology and Skull Base Surgery at Stanford University.

Dr. Agrawal's primary research interests include surgical simulation, middle ear biomechanics and imaging. His areas of specializations include neurotology and skull base surgery, hearing loss, cochlear implants, lateral skull base surgery, facial nerve disorders, and vestibular disorders.

The Division boasts a number of achievements and milestones over the years. These include Ontario's first paediatric cochlear implant in 1989; the world's first posterior canal occlusion for BPPV in 1988; the initial discovery of in-vivo posterior canal endolymph particles in patients with BPPV in 1992; the corticosteroid pharmacokinetic study that paved the way for transtympanic drug delivery to treat various inner ear disorders in 1999; the establishment of the Auditory Biophysics Laboratory in 2008 in conjunction with Hanif Ladak, PhD; and the first Bonebridge hearing implant procedure in North America in 2013.

The Division of Otology/Neurotology is a dynamic member of the Department with more than 20 Research Grants and 85 Publications during the past 10 years. With Hanif Ladak, it has developed two simulation systems, one for diagnosing conditions such as ear infections and another virtual reality system for myringotomy training. It has also developed computer models to better interpret hearing tests, design implants and optimize surgical procedures. The goal of the divisional members is to continue to improve the quality of life for their patients through research, technology, education and stewardship.



Paediatric Otolaryngology

DIVISIONAL REPORT: DR. MURAD HUSEIN

The Division of Paediatric Otolaryngology is a relatively young division, having been established at the Children's Hospital in 2006. Since its inception a number of changes have taken place including the retirement of Dr. Duncan MacRae, a valued member who spent more 30 years taking care of the children of Southwestern Ontario. Currently, the Division is comprised of Dr. Josée Paradis, who joined the Division in 2014; Dr. Julie Strychowsky, who joined in 2015; and Dr. Murad Husein.

The mandate of the Division is to provide tertiary care otolaryngology support for the children of Southwestern Ontario through complex airway surgery, chronic otologic disease and sinonasal surgery. More than 4500 children a year are treated in the outpatient clinics alone.

There are a number of multidisciplinary clinics and initiatives highlighting the patient-centred approach that the Division embodies. One example is the recently formalized Paediatric Airway Service (PAWS), a collaborative effort with our colleagues in paediatric respirology. PAWS provides excellence of care for the complex paediatric airway patient. To achieve this end, a number of multidisciplinary clinics and combined service procedures have been designed.



Other multidisciplinary clinics include the Paediatric Sinonasal Cystic Fibrosis Clinic, Paediatric Tracheostomy Clinic, and the Velopharyngeal Dysfunction Clinic. Plans are underway to implement the Congenital Hearing Loss Clinic, Sialorrhea Clinic and Paediatric Laryngology Clinic within the near future.

The academic mandate for the Division builds upon a strong preexisting clinical foundation. The members of the Division consistently publish research in national and international journals. They also foster collaborations with a number of other academic institutions in Canada, such as the annual Paediatric Airway Course. Offered to senior otolaryngology residents across the country, this

unique course involves advanced and practical airway management using simulation and practical dissections as taught by faculty from McGill University, the University of Montreal and Western University.

The Division of Paediatric Otolaryngology has established itself as an integral part of the Children's Hospital. It is actively engaged in the academic mission of the Schulich School of Medicine & Dentistry, and the Department of Otolaryngology – Head and Neck Surgery.

The next ten years promise to be an exciting time for the Division of Paediatric Otolaryngology as the Division builds on its successes and continues to provide state of the art care to the children of Southwestern Ontario.

Rhinology

DIVISIONAL REPORT: DR. BRIAN ROTENBERG

The Division of Rhinology in the Department of Otolaryngology – Head and Neck Surgery was formally recognized in 2014. The Division supports teaching, research and clinical care.

Many years prior to the official establishment of the Division, members were actively involved in many noteworthy activities. When Dr. Brian Rotenberg joined the

Department in 2007, and completed his Master's of Public Health (Epidemiology), he immediately focused his energies on a series of innovations in patient care and research.

Once Dr. Leigh Sowerby joined the Division in 2011 and completed his Master's of Health Management, he and Dr. Rotenberg quickly developed a strong academic presence within the Department.

The Division has experienced significant milestones over the past few years, specifically in collaboration with neurosurgery via endoscopic anterior skull base surgery, and ophthalmology with expansion of endoscopic techniques to manage orbital disease.

Dr. Rotenberg has also established an internationally-recognized sleep surgery program, providing advanced surgical procedures for patients from across Ontario. This program is a leader in revolutionizing approaches to patients with sleep apnea, and challenging traditional dogma that posits non-surgical treatment should always be first-line therapy.

With areas of research focused on surgical outcomes and health economics along with basic science and meta-analyses, the Division is highly industrious.

Between Drs. Rotenberg and Sowerby, the Division has produced more than 100 research publications and book chapters, and both members are frequently invited nationally and internationally to lend their expertise on a variety of subjects. They are also members of the Triological Society.

Having already made significant progress in the short time since its inception, the Division of Rhinology is a burgeoning unit within the Department of Otolaryngology, and looks forward to making continuous advancements in the decade ahead.



Faculty Biographies



Dr. Sumit Agrawal, MD'01
RESIDENT ALUMNUS ('06)

Dr. Sumit Agrawal is an Associate Professor and Research Director with the Department of Otolaryngology – Head and Neck Surgery. He is cross-appointed to the Department of Clinical Neurological Sciences and the Department of Electrical and Computer Engineering. He is also affiliated with the National Centre of Audiology (NCA), Canadian Surgical Technologies & Advanced Robotics (CSTAR), and Medical Biophysics.

He received his medical degree from the Schulich School of Medicine & Dentistry, Western University in 2001, and completed his residency in Otolaryngology – Head and Neck Surgery in 2006 there. He received fellowship training in Neurotology and Skull Base Surgery at Stanford University in 2008 where he also pursued research in biorobotics and surgical simulation.

Dr. Agrawal co-founded the Auditory Biophysics Laboratory (ABL) with Hanif Ladak, PhD, upon returning to the Department in 2008. Their group has received a number of peer-reviewed grants, have been published extensively and have presented their work in international forums.

Dr. Agrawal's group is also currently performing innovative research in the field of surgical simulation. The virtual-reality simulators being developed are helping to train surgical residents and to increase patient safety. These simulators have led to patient applications, commercialization through the business development arm of Western, and awards at the 2010 Venture London Business Competition and the 2016 Proteus Innovation Competition.

He performed the first BoneBridge Hearing Implant in North America in 2013. His novel surgical technique has been presented internationally and has helped to reduce patient risk and operative time. He has also created a number of inter-disciplinary collaborations at Western. His current research includes high-resolution cochlear imaging for implant guidance, tympanic membrane graft development, and middle ear biomechanics.

Dr. Agrawal was the recipient of the Horace and Clarice Wankel Research Award in 1999, the Detweiler Traveling Fellowship in 2006 as well as the Clinical Teacher's Award in 2013.



Dr. Kevin Fung

RESIDENT ALUMNUS ('02)

Dr. Kevin Fung is an Associate Professor with the Department of Otolaryngology – Head and Neck Surgery, with a focus in Laryngology, Head and Neck Surgery and Reconstructive Microvascular Surgery. He is cross-appointed to the Department of Oncology and the Don Wright Faculty of Music. He is also the Chief of the Department of Otolaryngology at Victoria Hospital. At the Schulich School of Medicine & Dentistry, Western University, he serves as Chair of the Clinical Sciences Electives Program; Vice Chair of the Clerkship and Electives Committee; acting Co-Director of the Office of Interprofessional Health Education and Research at Western; Associate Scientist at the Lawson Health Research Institute; and Director of the Spasmodic Dysphonia Clinic and Vocal Health Clinic at Victoria Hospital. He has been a member of the Faculty of Graduate, Health & Rehabilitation Sciences since 2006, where he has supervised 14 MSc and two PhD candidates.

He received his undergraduate degree in Physics and Medical Biophysics from Western in 1994 and his medical degree from Queen's University in 1997. He completed his residency in Otolaryngology at Schulich Medicine in 2002. He then received fellowship training in Head and Neck Surgery and Microvascular Reconstructive Surgery at the University of Michigan. While at Michigan, he pursued additional training in Laryngology and research on gene therapy for management of peripheral nerve injury. In 2015, he obtained his Master's certificate in Physician Leadership Development at the York University Schulich School of Business. He acquired additional leadership and management training at the Ivey School of Business in 2006, as well as the Harvard School of Public Health in 2013.

Dr. Fung co-performed the first transoral robotic surgery (TORS) in Canada in 2010. His clinical interests include transoral

laser microsurgery, TORS, head and neck oncology, microvascular reconstructive surgery, outcomes research and medical education. His clinical expertise in oncology and laryngology has earned him invited visiting professorships at many institutes, including: the Henry Ford Hospital, Detroit, Michigan; the Apollo Cancer Hospital Institute, Chennai, India; McMaster University; the University of Toronto; and the University of Ottawa.

Dr. Fung's academic passion is in medical education. This led him to create the first national undergraduate medical education group in Otolaryngology in 2009 and introduce the first simulation-based training bootcamp for junior Otolaryngology residents in Canada in 2011. He has been recognized nationally for his contributions to medical education as the recipient of the CAME Certificate of Merit and the CSOHNS Excellence in Education Award in 2016.

Dr. Fung was named Honorary Class President of the Medicine Class of 2015. In addition to his roles at Schulich Medicine, he is actively involved in significant leadership roles regionally, nationally and internationally. Regionally, he is Co-Chair of the Interprofessional Education Working Group for the Southwestern Ontario Academic Health Science Network. Nationally, he is the Chair of the Undergraduate Medical Education Committee for the Canadian Society of Otolaryngology – Head and Neck Surgery, as well as a member of the Examination Board of the Royal College of Physicians and Surgeons of Canada. Internationally, he is a Fellow of the Triological Society; the American College of Surgeons; and the American Academy of Otolaryngology – Head and Neck Surgery, where he is a member of various committees dealing with medical education. He has 115 peer-reviewed publications and three book chapters.



Dr. Murad Husein, MD'96

Dr. Murad Husein is an Associate Professor with the Department of Otolaryngology – Head and Neck Surgery and Director of Undergraduate Medical Education. He is the Chief of Paediatric Otolaryngology at the Children's Hospital at London Health Sciences Centre.

He received his medical degree from the Schulich School of Medicine & Dentistry, Western University in 1996, and completed his residency in Otolaryngology at McGill University. He received fellowship training in Paediatric Otolaryngology at the University of Iowa.

Dr. Husein has taken on a number of leadership and clinical roles. He is the Medical Director of multiple clinics that include: the Paediatric Airway Clinic, the Paediatric Tracheostomy Clinic, the Velopharyngeal Dysfunction Clinic and the Paediatric Sinonasal Cystic Fibrosis Clinic.

His current research focuses on surgical strategies and the quality of life in children with velopharyngeal dysfunction and undergraduate medical education in Otolaryngology.

Dr. Husein has published 28 peer-reviewed articles and three book chapters. He has given numerous invited lectures related to his clinical and academic sub-specialty involving velopharyngeal dysfunction and paediatric airway surgery. He was named Clinical Teacher of the Year for the Department of Otolaryngology in 2012, and has been on the Western University Student Council Teaching Honour Roll six times.



Dr. Danielle MacNeil

Dr. Danielle MacNeil is an Associate Professor with the Department of Otolaryngology – Head and Neck Surgery.

She received her medical degree from Dalhousie University in 2006, and completed her residency in Otolaryngology – Head and Neck Surgery at the University of British Columbia in 2011. She received fellowship training in Head and Neck Reconstruction, Microsurgery and Endocrine Surgery at the University of Alberta in 2012. She also completed the Institute for Clinical and Evaluative Sciences (ICES) Faculty Scholars Program at Schulich Medicine in 2015, and is currently enrolled in the Master of Science, Epidemiology program.

Dr. MacNeil has been published on the topic of survival and perioperative outcomes of patients with head and neck cancer in Ontario. Her research utilizes large population-based databases and systemic reviews to study the survival and quality of life outcomes in patients with head and neck cancer and surgical endocrine diseases.

Dr. MacNeil received the Bill Knox Award for outstanding post-graduate surgical study from the Department of Surgery, University of British Columbia in 2011 and the award for top paper at the Canadian Society of Otolaryngology Annual Meeting in 2012.



Dr. Corey Moore

RESIDENT ALUMNUS ('01)

Dr. Corey C. Moore is an Associate Professor with the Department of Otolaryngology – Head and Neck Surgery. He is cross-appointed in the Department of Oncology, Division of Surgical Oncology and the Department of Anatomy and Cell Biology at Schulich School of Medicine & Dentistry, Western University. He is also the Site Chief of Otolaryngology – Head and Neck Surgery at St. Joseph's Hospital and Chief of the Division of Facial Plastic and Reconstructive Surgery, Department of Otolaryngology – Head and Neck Surgery. He is Vice Chair of the Specialties Committee of Otolaryngology – Head and Neck Surgery at the Royal College of Physicians and Surgeons of Canada.

He received his medical degree from the University of Manitoba in 1996, and completed training in Otolaryngology – Head and Neck Surgery at Schulich Medicine in 2001. He received surgical fellowship training in Facial Plastic and Reconstructive Surgery at the University of Toronto in 2002. He then finished his post-graduate training in the Department of Medical Biophysics in 2005 at Schulich Medicine.

Dr. Moore has served as the Chair of the Skin Disease Site Team, London Health Sciences Centre, from 2003-2014; Residency Program Director, Otolaryngology – Head and Neck Surgery, Schulich Medicine, from 2008-2014; President of the Canadian Academy of Facial Plastic and Reconstructive Surgery, from 2007-2014; and was Royal College of Physicians and Surgeons Board Examiner in Otolaryngology – Head and Neck Surgery, from 2004-2012.

Dr. Moore's research focuses on the biomechanics of the facial skeleton in relation to maxillofacial trauma, photodynamic therapy treatment for skin cancer and facial ligament anatomy, as it relates to facial aging.



Dr. Anthony Nichols

Dr. Anthony C. Nichols is an Associate Professor with the Department of Otolaryngology – Head and Neck Surgery and with the Department of Oncology. He is Director of the Translational Head and Neck Cancer Research Program, and is Chair of the Head and Neck Disease Site Team at the London Regional Cancer Program.

He received his medical degree from the University of Toronto in 2003. He then interned at Massachusetts General Hospital from 2003-2004, before completing his residency with the Harvard Combined Otolaryngology Program in 2008. While still at Harvard, he received fellowship training in Head and Neck Oncology and microvascular reconstruction in 2009. Under the mentorship of Dr. Jim Rocco, he pursued basic science training in the field of molecular biology of head and neck cancers in concordance with his clinical training.

Dr. Nichols joined the staff at the Schulich School of Medicine & Dentistry, Western University as a Surgeon-Scientist in 2009, in order to establish the Translational Head and Neck Cancer Program. He has developed a multi-faceted program that introduces laboratory findings into the clinic, by way of early stage clinical trials. This group specifically studies the genetic makeup of head and neck squamous cell cancer and anaplastic thyroid cancer to see how those genes predict the response of chemotherapy.

Dr. Nichols, in partnership with Drs. Kevin Fung and John Yoo, established the first transoral robotic surgery (TORS) program in Canada in 2010, for the minimally invasive

treatment of head and neck tumours. In 2011, in partner with radiation oncologist Dr. David Palma, Dr. Nichols introduced the first and only randomized controlled trial that compared TORS with radiation for the treatments of oropharyngeal cancer. This study was funded through a grant provided by the Canadian Cancer Research Institute, and has the potential to guide health care worldwide for patients with oropharyngeal cancer. After being performed solely in London, the study has since opened at the University of British Columbia, McGill University, the University of Ottawa, the University of Toronto and in Australia.

Dr. Nichols' work with the Translational Head and Neck Cancer Research Program has led to the training of 13 students, and \$3.2 million of funding that has culminated in 45 publications and three clinical trials.



Dr. Josée Paradis

RESIDENT ALUMNA ('13)

Dr. Josée Paradis is an Assistant Professor with the Department of Otolaryngology – Head and Neck Surgery, where she currently practices as a Paediatric Otolaryngologist, Head and Neck surgeon.

She received her medical degree from Ottawa University in 2008. Concurrently, during her first two years of medical school she obtained her Master of Science degree from the University of Waterloo. She completed her residency in Otolaryngology at the Schulich School of Medicine & Dentistry, Western University, in 2013. She also received fellowship training in Paediatric Otolaryngology, Head and Neck Surgery at the quaternary centre of Lucile Packard Children's Hospital, Stanford University in 2014.

Dr. Paradis' work encompasses the breadth of paediatric otolaryngology. This includes head and neck masses, airway pathology and congenital conditions. Her specific clinical interests consist of congenital hearing loss, sleep disordered breathing and congenital ear malformation, such as microtia and canal atresia.

Dr. Paradis is currently involved in several areas of research which include: a nationwide research study on Choanal Atresia; new surgical techniques for paediatric sleep apnea; and sleep disordered breathing in children.

Dr. Paradis has an interest in medical education. She attended the Teaching at the University Level Instructional Skills workshop in 2014 and a five-week course in the Clinical Teaching Program Facilitator Course at Stanford University. Moving forward, she anticipates facilitating the Clinical

Teaching Program at London Health Sciences for residents and staff.

Dr. Paradis has co-authored the Paediatric teratoma and dermoid cysts chapter in the Paediatric Head and Neck Masses, Otolaryngologic Clinics of North America, as well as the Otolaryngology Review chapter in the Paediatric Board Study Guide.



Dr. Lorne Parnes

RESIDENT ALUMNUS ('85)

Dr. Lorne Parnes is a Professor with the Department of Otolaryngology – Head and Neck Surgery and Clinical Neurological Sciences. He has also served as Chair of the Department and Chief at London Health Sciences Centre and St. Joseph's Health Care London.

He received his medical degree from the University of Toronto in 1980, and completed his residency in Otolaryngology at the Schulich School of Medicine & Dentistry, Western University in 1985. He was the first clinical and research fellow in otology/neurotology at the University of Iowa Hospitals and Clinics from 1985-1987.

Dr. Parnes has published extensively and lectured internationally about the causes, mechanisms and various treatments of benign paroxysmal positional vertigo (BPPV). He pioneered the posterior semicircular canal occlusion procedure for BPPV, and also championed transmastoid superior canal occlusion for superior canal dehiscence. His discovery of in-vivo free floating posterior canal endolymph particles in patients with intractable BPPV led to the worldwide advancement of particle repositioning maneuvers for its treatment.

Dr. Parnes established the London Health Science Centre's cochlear implant program in 1988 and performed the first paediatric cochlear implant in Ontario in 1989. He and the implant program were invited to join the prestigious international Hearing network of implant centres in 2006.

Dr. Parnes is also renowned for his pioneering work on transtympanic drug delivery. His pharmacokinetic study of

corticosteroids in the inner ear fluids served as his Triological Society thesis and has been widely cited in the literature.

This study paved the way for a revolution in the management of various inner ear diseases such as Meniere's disease and sudden sensorineural hearing loss.

Dr. Parnes has received numerous awards from local, national and international organizations. He was the recipient of the first Canadian Society of Otolaryngology – Head and Neck Surgery (CSO-HNS) Xomed-Poliquin National Research Award in 1984; CSO-HNS Honor Award in 1996; Clinical Teacher's Award in Otolaryngology at Schulich Medicine & Dentistry four times - 1996, 2000, 2004, 2015; the American Academy of Otolaryngology – Head and Neck Surgery Foundation (AAO-HNSF) Honor Award in 1999; the AAO-HNSF Distinguished Service Award in 2012; and the Presidential Citation from the American Otological Society in 2015.



Dr. Brian Rotenberg

Dr. Brian Rotenberg is an Associate Professor with the Department of Otolaryngology – Head and Neck Surgery. He is Chief of Division of Rhinology and director of the Sleep Surgery Program at the Schulich School of Medicine & Dentistry, Western University.

He received his medical degree from the University of Toronto and Royal College certification in Otolaryngology – Head and Neck Surgery. He received dual fellowship training in sinonasal surgery and paediatric surgery at the University of Melbourne. He also earned a Masters of Public Health degree from Emory University and Centers for Disease Control and Prevention in 2009.

Dr. Rotenberg has played a role in developing innovative surgical techniques for both endoscopic and cranial work and sleep apnea treatments. His research interests involve establishing evidence-based perioperative outcomes assessments for sinonasal and sleep apnea disorders.

Dr. Rotenberg is a medical consultant for guideline publications relating to perioperative management of apneic patients and a consultant for industry partners working on innovative surgical devices for treatment of apnea and snoring. He holds a patent for a frontal sinus stent.

Dr. Rotenberg is a founding member and Secretary of the Board of the International Surgical Sleep Society. He is the scientific Chair of the Canadian Society of Otolaryngology. He is also involved in panel work on sinus diseases and sleep apnea with the American Rhinological Society and Triological Society. He is a member of the editorial board of numerous

journals, most prominently The Laryngoscope, and has achieved a Triological thesis.

Dr. Rotenberg has been invited to speak internationally on topics relating to sleep apnea and rhinology, and has over 80 peer-reviewed publications and book chapters. He has received funded research grants to pursue both sinonasal, and sleep apnea studies.

Dr. Rotenberg moved to London nine years ago from Toronto, and is very happy in the city being part of the local community and having made many new close friendships. His wife Beverley and three children, Jacob, Kieran, and Nathan, are the lights of his life.



Dr. Kathryn Roth, MD'03 RESIDENT ALUMNA ('08)

Dr. Kathryn E. Roth is an Assistant Professor with the Department of Otolaryngology – Head and Neck Surgery. She serves as Chair of the Continuing Professional Development Committee and Chair of the Instructional Design Committee, Undergraduate Medicine. Dr. Roth was named Deputy Chair, Cutaneous Oncology at the London Regional Cancer Program in 2014. She sits on the Quality Committee, the Progressions and Awards Committee and the CPD Advisory Committee at Schulich Medicine. She is also Site Coordinator on the Postgraduate Education Committee.

Dr. Roth graduated from Queens University in 1999 with an Honors BSc in Life Sciences and a thesis specialization in neuropathology. She received her medical degree from the Schulich School of Medicine & Dentistry, Western University in 2003, and completed her residency in Otolaryngology – Head and Neck Surgery there in 2008. She received fellowship training in Head and Neck Reconstructive Surgery at the Sydney Head and Neck Cancer Institute and the Sydney Melanoma Unit in Australia in 2010.

Dr. Roth has a clinical and research interest in skin cancers of the head and neck, as well as facial reconstruction. She assisted in the development of a Canadian National Melanoma database, where her research focus is on melanoma and sentinel node biopsy outcomes, skin carcinoma in immunocompromised patients and the use of 3D ultrasound in lesional depth identification.

Dr. Roth has obtained American College of Surgeons certification in ultrasound and ultrasound-guided biopsy.

She used this experience to develop a same-day consult and ultrasound FNAB office program.

Dr. Roth's medical education research is in simulation assessment, team training and technical skill retention. Dr. Roth and Dr. Kevin Fung co-facilitate the Annual Emergencies in Otolaryngology. This is a national course for first-, and second-year residents in Otolaryngology – Head and Neck Surgery that develops foundational skills and provides a simulated scenario experience. The program enters its fifth year in 2016, and has become a preparative course for residents across Canada.

Dr. Roth is a recipient of the Schulich School of Medicine & Dentistry's Teaching Honour Roll and the Australia and New Zealand Head and Neck Society Junior Investigator award. She currently holds an AMOSO Opportunities grant for a collaborative skin excision project with the Department of Family Medicine. This project is the basis for her thesis, as part of a Masters in Health Professions Education (MHPE), and is submitted for defense in the fall of 2016, at the University of Chicago, Illinois.



Dr. Leigh Sowerby

RESIDENT ALUMNUS ('11)

Dr. Leigh Sowerby is an Assistant Professor with the Department of Otolaryngology – Head and Neck Surgery.

He received his medical degree from the University of Calgary in 2006, and completed his residency in Otolaryngology – Head and Neck Surgery at the Schulich School of Medicine & Dentistry, Western University in 2011.

He received a year of sub-specialty training in Rhinology and Anterior Skull Base Surgery at the University of Alberta, and returned to London in 2012.

In his first three years back on faculty he completed a Masters of Health Management at McMaster University, graduating in 2015.

Dr. Sowerby's research interests are in two broad streams: in Health Economics, Health Management and Policy, and in sinonasal disorders and their treatment with an emphasis on clinical outcomes. He has been using his interest in Health Management to help St. Joseph's Health Care with cost reduction and minimization initiatives.

Dr. Sowerby was recognized for his efforts with St. Joseph's Health Care when he was awarded the Medical Advisory Committee (MAC) Award in 2015. He was also inducted into the Triological Society in 2016 for his thesis: *Cost Analysis of Flexible Nasopharyngoscope Decontamination with High-Level Automated Reprocessing - The Cost of Being Clean.*



Dr. Julie Strychowsky

Dr. Julie Strychowsky is an Assistant Professor with the Department of Otolaryngology – Head and Neck Surgery at the Schulich School of Medicine & Dentistry, Western University.

She received her medical degree from McMaster University in 2009, and completed her residency in Otolaryngology there in 2014. She received sub-specialty fellowship training in Paediatric Otolaryngology at Boston Children's Hospital in 2015.

Dr. Strychowsky's areas of interest and expertise include: paediatric otolaryngology, aerodigestive disorders, voice disorders, surgical management of sialorrhea and otology.

Dr. Strychowsky has published 16 peer-reviewed articles. She was also awarded the American Society of Paediatric Otolaryngology (ASPO) Fellow Award, for having the best research project during her fellowship.



Dr. Sydney Sukerman

RESIDENT ALUMNUS ('77)

Dr. Sydney Sukerman is an Associate Professor with the Department of Otolaryngology – Head and Neck Surgery.

He received his BSc and his medical degree from the University of Toronto, and completed his residency in Otolaryngology – Head and Neck Surgery at the Schulich School of Medicine & Dentistry, Western University in 1977. He then received post graduate training in Paediatric Otolaryngology at Boston Children's Hospital, Harvard Medical School, in 1978.

Dr. Sukerman returned to London as a community based General Otolaryngologist. He was appointed to the Teaching staff at Western University with a special interest in paediatric cases, and became the Chairman of Undergraduate Education for the Ear, Nose and Throat department. He held that post for seven years and restructured the program during that time. He has also had the privilege of being on the selection committee for Chair/Chief of Otolaryngology on two occasions, and has sat on provincial task forces.

Dr. Sukerman also attended to the Woodstock General Hospital for 30 years, as the only Otolaryngologist in that thriving community. Therefore, he has had the opportunity to be involved in the community and academia where tertiary and quaternary experts reside. He strongly supports the need for community based specialists, so that the highly skilled can continue to hone their skills in specialized surgery, teaching, research and administration.



Dr. John Yoo

Dr. John Yoo is the Professor and Chair, City-wide Chief of the Department and has served in that capacity since April 2006. He received his medical degree from the University of Toronto in 1991, where he also completed his residency. He received fellowship training in Head and Neck Oncologic and Reconstructive Surgery in Toronto, before joining the faculty at the Schulich School of Medicine & Dentistry in 1997.

Dr. Yoo has served on numerous regional, provincial, national and international committees. He is the past Chair of Chairs of Clinical Departments at Schulich Medicine & Dentistry, and the past and longest serving Chair of the Committee of Canadian Otolaryngology Academic Chairs. He is a current member of the on the Canadian Society of Otolaryngology – Head and Neck Surgery Executive Committee, is the provincial Co-Chair of the Head and Neck Disease Site of Cancer Care Ontario and has been active in helping develop standards of practice.

Dr. Yoo has dedicated his practice to academic Head and Neck Oncologic and Microvascular Reconstructive Surgery. He has been Chief of Division and the Fellowship director since their inception in 2003 and 2006, respectively. His clinical and academic interests include innovations in head and neck reconstruction, thyroid and parathyroid surgery, management of the paralyzed face, and head and neck oncology. He has published and lectured extensively and has developed numerous surgical innovations in reconstruction for major head and neck defects.

Alumni

RESIDENTS

2016

Winsion Chow
Jordan Glicksman
Samantha Tam
David Yeh

2015

Christoper Chin
Therault Jenna

2014

Sammy Khalili
Susan Tan
Brandon Wickens

2013

Douglas Angel
Jason Beyea
Josée Paradis
Justin Poirier

2012

Hussain Alsaffar
Goran Jeremic
Shahin Nabi

2011

Amanda Hu
Mohamed Mohamed
Leigh Sowerby

2010

Michael Brandt
Irene Zhang

2009

Scott Hamilton
Damian Micomonaco

2008

Shamir Chandarana
Kathryn Roth

2007

Matthew Bromwich
Maya Sardesai

2006

Sumit Agrawal
Khaled Eljallah

FELLOWS

2016

Jessica Prasad

2015

Hubert Low

2014

Doug Angel

2013

Mathieu Belzile

2012

Sam Dowthwaite

2011

Chris Szeto

2010

Fiona Whelan

2009

Roger Moukarbel

2007

Julian White



Department Chairs

1962 - 1967

Dr. Robert Greenway

1967 - 1978

Dr. F. John Rounthwaite

1978 - 1988

Dr. Hans Heeneman

1988 - 1991

Dr. Ralph Ruby

1991 - 2004

Dr. Howard Lampe

2004 - 2005

Dr. Lorne Parnes

2006 - 2016

Dr. John Yoo

Department Faculty Members

PROFESSORS

Dr. Lorne Parnes
Dr. John Yoo

ASSOCIATE PROFESSORS

Dr. Sumit Agrawal
Dr. Kevin Fung
Dr. Murad Husein
Dr. Corey Moore
Dr. Anthony Nichols
Dr. Brian Rotenberg
Dr. Sydney Sukerman

ASSISTANT PROFESSORS

Dr. Danielle MacNeil
Dr. Josée Paradis
Dr. Kathryn Roth
Dr. Leigh Sowerby
Dr. Julie Strychowsky



University Appointments

ADJUNCT PROFESSORS

Dr. Ralph Ballagh
Barrie

Dr. Kristelle Cheung
Stratford

Dr. Mustafa Elbrecki
Windsor

Dr. Ali Hilal
Windsor

Dr. Brian Hynes
Sarnia

Dr. Brian Hughes
Stratford

Dr. Goran Jeremic
Woodstock

Nicole Lanthier
London

Dr. Francis Ling
Windsor

Dr. Simon McBride
London

Dr. Santhi DA Samy
Chatham

Dr. Linda Tietze (Chief)
Windsor

Dr. Nadine Yammine
Chatham

CROSS APPOINTEES

PROFESSORS

Dr. Theodore Baerg
Faculty of Music

Dr. Phil Doyle
Communicative Sciences and
Disorders, Faculty of Health Sciences

Dr. Alex Hammond
Oncology

Dr. Steve Lownie
Clinical Neurological Sciences

Dr. Ruth Martin
Communicative Sciences and
Disorders, FHS

Dr. Joseph Mymryk
Microbiology & Immunology

Dr. Keith Payton
Medicine

Dr. Eric Winkvist
Oncology

CROSS APPOINTEES

ASSOCIATE PROFESSORS

Dr. Neil Duggal
Neurosurgery

Dr. Hanif Ladak
Medical Biophysics, Co-director
of Research

Dr. Damir Matic
Surgery

Dr. David Palma
Oncology

ASSISTANT PROFESSORS

Dr. Matthew Hebb
Clinical Neurological Sciences

RESEARCH ASSOCIATE

Dr. John Barrett
Research Associate

Graduate Trainees

MASTER'S CANDIDATES

Noor Al Zanoon
Lauren Allen
Ian Arra
Ayda Bashiri
Morgan Black
Chi-Yun Chen
Mariya Ehsan
Nastaran Ghadarghadar
Mohammad Hesabgar
Andrew Ho
Farhan Hurmoodi
John Iyaniwura
Rootu Joshi
Si Liu
Mark Lynch
Xiaochuan Ma
Chelsea MacDonald
Krupal Patel
Govind Rehal
Giananthony Rizzo
Victoria Roach
Ehsan Salamati
Arefin Shamsil
Natalie Teal
Kartik Thakore
Brian Wheeler
Isabel Wozniczka
Guanhao Zhang

PhD CANDIDATES

Michael Brandt
Mojgan Farahani
Caiwen Huang
Muhammad Kharal
Melissa Nash
Nicole Pinto
S Alireza Rohani
Kara Ruicci

POSTDOCTORAL FELLOWS AND RESEARCHERS

Morgan Black
Research Associate
Dr. Mai Elfarnawany
Postdoctoral Fellow
Danny (Junmo) Lee
Research Assistant
Dr. Jian Liu
Postdoctoral Fellow
Dr. Terry Moschandreou
Postdoctoral Fellow
Dorian Murariu
Research Assistant
Allison Partridge
Research Assistant
Dr. Sadegh Riyahi Alam
Postdoctoral Fellow
Dr. Julie Theurer
Postdoctoral Fellow

Summer Research Training Program/ Schulich Research Opportunities Program Students

SRTP (TWO YEAR PROJECTS)

2016: Farhad Ghasemi (A. Nichols) *Preclinical development of novel therapeutics for improved outcomes in head and neck cancer*

2016: Thomas Tsz-Chun So (D. Macneil) *Do all Warthin Tumors of the Parotid Gland Require Parotidectomy?*

2014: Nicholas Cormier (A. Nichols) *Detection of circulating tumor DNA as a biomarker in head and neck cancer*

2014: Rochelle Johnstone (D. Macneil) *Secular trends in the Survival and Treatment of Oral Cavity Carcinoma*

2013: Shanmugappinya Sivarajah (K. Fung/G. Campbell) *Validation and assessment of a neck palpation simulation model in medical education-A randomized controlled trial*

2013: Kitty Wu (K. Roth) *From simulator to bedside- knowledge, attitude, and skill translation with Otolaryngology emergency simulation*

2012: Zhe Li (J. Franklin) *Thyroid Malignancy as a Late Toxicity of Pediatric Oncology Treatment*

2012: Neil Mundi (A. Nichols) *Oncolytic viruses for the treatment of head and neck squamous cell carcinoma*

2012: Sung Um (A. Nichols/J. Mymryk) *Role of the viral oncoprotein E5 in the prognosis of human papillomavirus (HPV) related head and neck cancer*

2010: John Basmaji (J. Yoo) *Identification of markers of chemotherapy and radiation failure in head and neck squamous cell carcinoma*

2010: Sandeep Dhaliwal (A. Nichols) *Evaluating the Impact of Human Papillomavirus Infection on the Epidemiology, quality of Life and Functional Outcomes in Head and Neck Cancer in Southwestern Ontario*

2010: Jason Xu (K. Fung) *Development and validation of a neck palpation simulation model in medical education*

2008: Amandeep Rai (K. Fung) *Patient education in the 21st century - validation of patient-centered web-based learning modules*

2008: Michael Sawchuck (K. Fung) *The effect of background material on lymph node palpability and size estimation*

2008: Gordon Tsang (J. Franklin) *Surgical Phantoms: Modelling of Head and Neck Anatomy for Surgical Education*

2007: Jordan Glicksman (K. Fung) *Development and Validation of Web-Based Learning Modules in Otolaryngology*

2007: George Jacob (J. Franklin) *Growth factors in an animal model of nerve regeneration*

2006: Shashank Garg (J. Yoo) *A Phase II Study of Oxandrolone in Patients Receiving Chemoradiotherapy for Locally Advanced Head and Neck Cancer.*

2006: Amandeep Grewal (K. Fung) *Impact of neck dissection on swallowing function*

2005: Luke Harris (J. Yoo) *Accuracy of technetium-99m SPECT-CT hybrid images in predicting the precise intraoperative anatomical location of parathyroid adenomas*

SRTP (ONE YEAR PROJECTS)

2016: Lauren Crosby (L. Sowerby) *Effect of price availability for common consumable in surgery on surgeons' cost awareness and practice patterns*

2014: Saad Ansari (L. Sowerby) *Oral Prednisone Prescribing Habits of Canadian Otolaryngologists in Sinusitis Cases*

2014: Camilla Stepniak (K. Fung) *Prospective randomized evaluation of an otoscopy simulator in undergraduate medical education*

2013: Matthew Wong (K. Fung) *Mobile technology in medical education*

2011: Gillian Mount (K. Fung) *Voice Severity and Vocal Overpressure in Adductor Spasmodic Dysphonia*

2010: Samantha Atkinson (B. Rotenberg) *Olfactory Outcomes of Transsphenoidal Pituitary Surgery*

2009: Daniel Mendelsohn (B. Rotenberg) *Nasal polyposis: recurrence rates following endoscopic sinus surgery*

2008: Christopher Chin (J. Franklin) *Radiation fibrosis: does gender play a role?*

2007: Jordan Glicksman (K. Fung) *The effect of background material on lymph node palpability and size estimation.*

2006: Luke Harris (C. Moore) *Botulinum toxin A used for improved healing in facial scars: A randomized controlled trial*

2006: Jennifer Tang (K. Fung) *Comparative evaluation of primary vs. secondary tracheoesophageal puncture voice restoration: Acoustic, psychophysical and quality of life outcomes*

Visiting Speakers and Invited Lecturers

GRAND ROUNDS

February 10, 2016

Dr. Daniel J. Lee

Massachusetts Eye and Ear Infirmary

March 16, 2016

Dr. Andrew N. Goldberg

UCSF Medical Center

May 11, 2016

Dr. Gunesh Rajan

University of Western Australia, Perth

January 21, 2015

Dr. Phillip E. Gander

University of Iowa

May 13, 2015

Dr. Doron Summer

McMaster University

October 14, 2015

Dr. Lorelei Lingard

Schulich School of Medicine & Dentistry

December 15, 2015

Dr. Jeffrey Myers

University of Texas MD Anderson
Cancer Center

January 8, 2014

Dr. Shan R. Baker

University of Michigan

September 10, 2014

Dr. Joseph M. Chen

Sunnybrook Health Sciences Centre,
University of Toronto

October 8, 2014

Dr. D. Gregory Farwell

University of California, Davis

April 17, 2013

Dr. Steven Rauch

Harvard Medical School

April 24, 2013

Dr. Ian Witterick

University of Toronto

October 23, 2013

Dr. Theodoros (Ted) Teknos

Ohio State University Wexner
Medical Center

November 6, 2013

Dr. Claudio Vicini

University of Pavia and Parma

May 2, 2012

Dr. Paolo Campisi

University of Toronto

June 6, 2012

Dr. Randal S. Weber

University of Texas MD Anderson
Cancer Center

June 13, 2012

Dr. Herbert Silverstein

University of Pennsylvania
Medical School

October 24, 2012

Dr. Daniel Deschler

Harvard Medical School

January 26, 2011

Dr. Richard V. Smith

Montefiore Medical Center

February 9, 2011

Dr. Blake C. Papsin

University of Toronto

June 15, 2011

Dr. Douglas B. Chepeha

University of Michigan

March 10, 2010

Dr. Benjamin Asher

Restorative ENT, New York

September 15, 2010

Dr. Mojgan Hodaie

University of Toronto

May 6, 2009

Dr. John P. Carey

The Johns Hopkins University

June 17, 2009

Dr. Martin J. Corsten

University of Ottawa

September 10, 2009

Dr. Albert Driedger

London Health Sciences Centre

October 21, 2009

Dr. Manohar Bance

Dalhousie University

May 14, 2008

Dr. Dennis Poe

Harvard Medical School

October 22, 2008

Dr. Tucker Woodson

Medical College of Wisconsin

March 28, 2007

Dr. Suresh Mukherji

University of Michigan Health System

June 13, 2007

Dr. David Solomon

The Johns Hopkins University

June 21, 2006

Dr. Michael Murphy

Indiana University

October 18, 2006

Dr. Peter Roland

Texas Southwestern University

DREIDGER LECTURERS

November 13, 2015

Dr. Robert Gagel

University of Texas MD Anderson
Cancer Center

November 14, 2014

Dr. Gregory Randolph

Harvard Medical School

October 25, 2013

Dr. Jennifer Sipos

Ohio State University

April 13, 2012

Dr. Ashok Shaha

Memorial Sloan Kettering Hospital

April 30, 2011

Dr. Sandy McEwan

University of Alberta

May 5, 2010

Dr. Michael Hier

McGill University

January 14, 2009

Dr. R. Michael Tuttle

Memorial Sloan Kettering
Cancer Centre

Resident Research Day Award Winners

C. A. THOMPSON AWARD FOR SCIENTIFIC ACHIEVEMENT (SUPERVISOR)

2016: Dr. Krupal Patel (Dr. Anthony Nichols), *Genetic markers of treatment failure in HPV-Positive oropharyngeal cancer*

2015: Dr. Samantha Tam (Dr. Kevin Fung and Dr. Leigh Sowerby), *Type 1 Medialization Thyroplasty versus Office Based Injection Vocal Fold Augmentation for Unilateral Vocal Fold Paralysis: A Cost Minimization Analysis*

2014: Dr. Krupal Patel (Dr. Anthony Nichols), *The Mutational Landscape of Anaplastic Thyroid Cancer Predicts Response to Targeted Therapy*

2013: Dr. David Yeh (Dr. Brian Rotenberg), *Routine Histopathology of Nasal Polyps in Endoscopic Sinus Surgery*

2012: Dr. Jason Beyea (Dr. Sumit Agrawal and Dr. Hanif Ladak), *Laser Doppler Vibrometry Measurements of Human Cadaveric Tympanic Membrane Vibration*

2011: Dr. Leigh Sowerby (Dr. Murad Husein), *The Epidemiology, Antibiotic Resistance and Post-Discharge Course of Peritonsillar Abscesses – A Canadian Perspective*

2010: Dr. Leigh Sowerby (Dr. Brian Rotenberg, Dr. Lorne Parnes), *Sleep Apnea, Daytime Somnolence and Idiopathic Dizziness: A Novel Association*

2009: Dr. Michael Brandt (Dr. Brian Rotenberg and Dr. Jason Franklin), *A Prospective Evaluation of Perioperative Concerns Amongst Patients Undergoing Otorhinolaryngologic Procedures*

2008: Dr. Michael Brandt (Dr. Murad Husein, Dr. Philip Doyle), *Atrophy Amongst Mucosa-Only versus Muscular-Mucosa Superiorly Based Pharyngeal Flaps: A pilot Animal Study*

2007: Dr. Matthew Bromwich (Dr. Lorne Parnes), *The Dizzyfix – Three Trials of a Dynamic Visual Device for the Self Treatment of Benign Paroxysmal Positional Vertigo*

2006: Dr. Sumit Agrawal (Dr. Hanif Ladak), *3D Endoscopy of the External Auditory Canal: A Step Towards Virtual Reality*

PETER CHESKI INNOVATIVE RESEARCH AWARD (SUPERVISOR)

2016: Dr. Matthew Harris (Dr. Corey Moore, Dr. Leigh Sowerby, Dr. M. Johnson), *Does Endoscopic Sinus Surgery Alter the Biomechanics of the Facial Skeleton?*

2015: Dr. Jordan Glicksman (Dr. Gary Curhan), *A prospective study of analgesic use and risk of incident tinnitus*

2014: Dr. Christopher Chin (Dr. Brian Rotenberg), *Reducing Surgical Costs in Otolaryngology via Assessment of Tray Redundancy*

2013: Dr. Jordan Glicksman (Dr. Gary Curhan), *The Association between Caffeine Exposure and Incident Tinnitus*

2012: Dr. Sammy Khalili (Dr. Kevin Fung and Dr. Philip Doyle), *An Experimental Investigation of Voice Quality in Tracheoesophageal Puncture and Voice Restoration*

2011: Dr. Doug Angel (Dr. Kevin Fung), *The Role of Platelet Rich Plasma on Wound Healing in Radial Forearm Free Tissue Transfer*

2010: Dr. Goran Jeremic (Dr. Corey Moore), *Using Photodynamic Therapy as a Neoadjuvant Treatment in the Surgical Excision of Non-Melanotic Skin Cancers: A Prospective Study*

2009: Dr. Leigh Sowerby (Dr. Sumit Agrawal), *Development and Face Validity Testing of a Three Dimensional Myringotomy Simulator with Haptic Feedback*

2008: Dr. Kathryn Roth (Dr. Corey Moore), *Biomechanical Properties of Facial Retaining Ligaments in the Cadaveric Model: Novel Platysmal-Hyoid Ligament Characterized*

2007: Dr. Scott Hamilton (Dr. John Yoo), *Cisplatin Otoprotection Using Transtympanic L-N-Acetyl-Cysteine*

2006: Dr. Matthew Bromwich (Dr. John Yoo), *Active Audiometry: The Sound of Silence*

PERFECT PITCH AWARD (SUPERVISOR)

2016: Dr. John Scott (Dr. Brian Rotenberg and Dr. Leigh Sowerby), *Sinonasal Surgery in an under-resourced setting: The safety and efficacy of office based rhinology*

2015: Dr. David Yeh (Dr. Kevin Fung), *Management of T1 Glottic Squamous Cell Carcinoma – Comparative outcomes between laser and radiotherapy treatment at London Regional Cancer Program*

2014: Dr. Jordan Glicksman (Dr. Brian Rotenberg), *Informed Consent When Prescribing Medication: A Randomized Controlled Trial*

2013: Dr. Sammy Khalili (Dr. Kevin Fung and Dr. Philip Doyle), *Correlates of Tracheoesophageal Voice Restoration Outcomes: A Surgical, Acoustic, and Perceptual Investigation*

2012: Dr. Josée Paradis (Dr. Lorne Parnes), *Cutaneous Scars following Simultaneous Bilateral Cochlear Implants: A Comparison of Scalpel versus Electrocautery Incisions*

2011: Dr. Shahin Nabi (Dr. Brian Rotenberg), *Nasal Spray Adherence after Sinus Surgery: Problems and Predictors*

2010: Dr. Michael Brandt (Dr. Corey Moore and Dr. Philip Doyle), *Validation of a Novel Scale for the Objective Evaluation of Linear Scars*

2009: Dr. Scott Hamilton (Dr. John Yoo), *Cisplatin Otoprotection Using Transtympanic L-N-Acetyl-cysteine*

2008: Dr. Scott Hamilton (Dr. John Yoo), *Microvascular Changes in Radiation-Induced Oral Mucositis*

2007: Dr. Michael Brandt (Dr. Jason Franklin), *Assessing Scar Measurement: Are we Measuring Correctly?*

2006: Dr. Scott Hamilton (Dr. John Yoo), *Microvascular Changes in Oral Mucositis*

**UNDERGRADUATE MEDICAL
EDUCATION AWARD**

2016: Dr. David Yeh
2015: Dr. Winsion Chow
2014: Dr. Christopher Chin
2013: Dr. Jenna Theriault
2012: Dr. Shahin Nabi
2011: Dr. Leigh Sowerby
2010: Dr. Michael Brandt
2009: Dr. Leigh Sowerby
2008: Dr. Kathryn Roth
2007: Dr. Michael Brandt
2006: Dr. Khaled El Jallah

**SIMON KIRBY: MOST CARING
RESIDENT AWARD**

2016: Dr. David Yeh
2015: Dr. Jenna Theriault
2014: Dr. Brandon Wickens
2013: Dr. Brandon Wickens
2012: Dr. Goran Jeremic
2011: Dr. Leigh Sowerby
2010: Dr. Goran Jeremic
2009: Dr. Scott Hamilton
2008: Dr. Shamir Chandarana
2007: Dr. Maya Sardesai
2006: Dr. Sumit Agrawal

**CLINICAL TEACHER
AWARD**

2016: Dr. Brian Rotenberg
2015: Dr. Lorne Parnes
2014: Dr. Anthony Nichols
2013: Dr. Sumit Agrawal
2012: Dr. Murad Husein
2011: Dr. Kevin Fung
2010: Dr. Corey Moore
2009: Dr. Brian Rotenberg
2008: Dr. Duncan MacRae
2007: Dr. Kevin Fung
2006: Dr. Corey Moore

Resident Research Day Guest Speakers 2006 - 2016

DISTINGUISHED VISITING PROFESSORS

May 6, 2016
**Dr. Carol Rossier
Bradford**
University of Michigan

May 22, 2015
**Dr. Sujana
Chandrasekhar**
President Elect,
American Academy of
Otolaryngology – Head
and Neck Surgery

April 25, 2014
Dr. Patrick Gullane
University of Toronto

May 24, 2013
Dr. Michael Stewart
Cornell University

May 11, 2012
Dr. Anil K. Lalwani
New York University

May 6, 2011
Dr. Ralph Gilbert
University of Toronto

May 14, 2010
Dr. Nikolas H. Blevins
Stanford University

April 24, 2009
Dr. Jonas T. Johnson
University of Pittsburgh

April 25, 2008
Dr. Patrick Gullane
University of Toronto

May 4, 2007
Dr. Neal Futran
University of Washington

April 28, 2006
Dr. Vito Forte
The Hospital for Sick
Children, University of
Toronto

DISTINGUISHED VISITING ALUMNUS

May 6, 2016
Dr. Matthew Bromwich
University of Ottawa

May 22, 2015
Dr. Tim Wallace
Dalhousie University

April 25, 2014
Dr. Grant Gillman
University of Pittsburgh

May 24, 2013
Dr. Mark Taylor
Dalhousie University

May 11, 2012
Dr. Dale Brown
University of Toronto

May 6, 2011
Dr. Robert Ballagh
McMaster University

May 14, 2010
Dr. Jonathan Trites
Dalhousie University

April 24, 2009
Dr. Maya Sardesai
University of Washington

April 25, 2008
Dr. Sumit Agrawal
Stanford University

May 4, 2007
Dr. Raj Sindwani
St. Louis University

April 28, 2006
Dr. Joseph Wong
Smile China Surgical Mission

Resident Research Day Projects and Presenters

2016

Dr. Rakhna Araslanova: Prior Radiotherapy and Age strongly predict survival after salvage surgery for recurrent oral cavity squamous cell carcinoma – A recursive partitioning analysis

Dr. Horace Cheng: Virtual-reality myringotomy simulator – face validity and performance metrics analysis

Dr. Christopher Dwyer: Survival outcomes for cutaneous head and neck melanoma: An institutional analysis of the current AJCC staging system as a prognostic factor

Dr. Sandeep Dhaliwal: Biomechanical Properties of the Oropharynx- Toward a Robust Finite Element Model of the Upper Airway in Obstructive Sleep Apnea Patients

Dr. John Scott: Sinonasal Surgery in an under-resourced setting: The safety and efficacy of office based rhinology

Dr. Matthew Harris: Does Endoscopic Sinus Surgery Alter the Biomechanics of the Facial Skeleton?

Dr. Krupal Patel: Genetic markers of treatment failure in HPV-Positive oropharyngeal cancer

Dr. Chandheeb Rajakumar: Velopharyngeal Wall Motion in Velocardiofacial Syndrome

2015

Dr. Sandeep Dhaliwal: Genomic Analysis of HPV-Related Oropharyngeal Cancer

Dr. John Scott: Factors determining referral patterns to Otolaryngology by General Practitioners

Dr. Matthew Harris: The Reliability of the Reflux Finding Score in General Otolaryngology Practice

Dr. Krupal Patel: Detection of Circulating Thyroid Tumor DNA in Thyroid Cancer Patients

Dr. Chandheeb Rajakumar: Risk Factors for Acute Epiglottitis

Dr. Winsion Chow: A literature review and economic model on the cost of flexible nasopharyngoscope decontamination in a community otolaryngology office.

Dr. Jordan Glicksman: A prospective study of analgesic use and risk of incident tinnitus

Dr. Samantha Tam: Type 1 medialization thyroplasty versus office based injection vocal fold augmentation for unilateral vocal fold paralysis: A cost minimization analysis.

Dr. David Yeh: Management of T1 Glottic Squamous Cell Carcinoma – Comparative outcomes between laser and radiotherapy treatment at London Regional Cancer Program.

2014

Dr. Matthew Harris: Factors Associated With Lingual Tonsillar Hypertrophy in Canadian Adults

Dr. Krupal Patel: The Mutational Landscape of Anaplastic Thyroid Cancer Predicts Response to Targeted Therapy

Dr. Chandheeb Rajakumar: Primary Care Practitioner and Emergency Room Employee Knowledge of Epistaxis First-Aid Management

Dr. Winsion Chow: The Utility of Routine Pathological Analysis after Tonsillectomy in Adults

Dr. Jordan Glicksman: Informed Consent When Prescribing Medication: A Randomized Controlled Trial

Dr. Samantha Tam: Outcome Measurements in Obstructive Sleep Apnea: Beyond the Apnea-Hypopnea Index

Dr. David Yeh: Surgeon-Estimated Costs of Common Surgical Consumables in Otolaryngology

Dr. Christopher Chin: Reducing Surgical Costs in Otolaryngology via Assessment of Tray Redundancy

Dr. Jenna Theriault: Changing Admission Criteria for Surgical Patients Undergoing Surgery for Sleep Apnea: Applying Modern Evidence

2013

Dr. Winsion Chow: High Frequency of Activating PIK3CA Mutations in HPV Positive Oropharyngeal Cancer

Dr. Samantha Tam: Olfactory Outcomes following Endoscopic Pituitary Surgery With or Without Septal Flap Reconstruction: A Randomized Controlled Trial

Dr. David Yeh: Routine Histopathology of Nasal Polyps in Endoscopic Sinus Surgery

Dr. Jordan Glicksman: The Association between Caffeine Exposure and Incident Tinnitus

Dr. Christopher Chin: High Volume Saline Irrigation in the Post Operative Management of Chronic Rhinosinusitis

Dr. Jenna Theriault: Objective Acoustic Evaluation of Velopharyngeal Insufficiency

Dr. Sammy Khalili: Correlates of Tracheoesophageal Voice Restoration Outcomes: A Surgical, Acoustic, and Perceptual Investigation

Dr. Susan Tan: The Aesthetic Unit Principal of Facial Aging

Dr. Brandon Wickens: Metrics for Evaluating Surgical Microscope Usage During Myringotomy

2012

Dr. Brandon Wickens: Intraoperative Ice Pack Application for Post

Tonsillectomy Pain Reduction: A Randomized Controlled Trial

Dr. Susan Tan: Functional Outcomes after Lateral Crural "J-Flap" Repair of External Nasal Valve Collapse

Dr. Sammy Khalili: An Experimental Investigation of Voice Quality in Tracheoesophageal Puncture and Voice Restoration

Dr. Justin Poirier: The Effect of Nasal Septoplasty on CPAP Compliance

Dr. Josée Paradis: Cutaneous Scars following Simultaneous Bilateral Cochlear Implants: A Comparison of Scalpel versus Electrocautery Incisions

Dr. Jason Beyea: Laser Doppler Vibrometry Measurements of Human Cadaveric Tympanic Membrane Vibration

Dr. Doug Angel: The Use of Platelet Rich Plasma and its Effect on Wound Healing in Radial Forearm Free Flap Reconstruction

Dr. Shahin Nabi: Normative Nasometry Data of Cleft Palate with or without Velopharyngeal Insufficiency

Dr. Goran Jeremic: Evaluating Trismus in Head and Neck Patients treated with Radiotherapy: A Prospective Study

Dr. Hussain Alsaffar: Postoperative Debridement after Endoscopic Sinus Surgery: A Randomized Controlled Trial

2011

Dr. Doug Angel: The Role of Platelet Rich Plasma on Wound Healing in Radial Forearm Free Tissue Transfer

Dr. Jason Beyea: Intratympanic Dexamethasone in the Treatment of Ménière's Disease

Dr. Josée Paradis: Endolymphatic Sac Surgery Versus Intratympanic

Gentamycin for the Treatment of Intractable Ménière's Disease: A Retrospective Review with Survey

Dr. Justin Poirier: The Sphenoid Sinus Septum Septations: Unpredictable Anatomic Landmarks in Endoscopic Pituitary Surgery

Dr. Hussain Alsaffar: Acoustic Analysis in Paediatric Vocal Cord Paralysis

Dr. Goran Jeremic: Nasal Polyposis Recurrence after Primary Endoscopic Sinus Surgery: A Survival Analysis

Dr. Shahin Nabi: Nasal Spray Adherence after Sinus Surgery: Problems and Predictors

Dr. Amanda Hu: Evaluation of Patient-Perceived Satisfaction with Photodynamic Therapy for Bowen Disease

Dr. Mohamed Mohamed: Prospective Analysis of Human Tissue Kallikrein in Salivary Gland

Dr. Leigh Sowerby: The Epidemiology, Antibiotic Resistance and Post-Discharge Course of Peritonsillar Abscesses – A Canadian Perspective

2010

Dr. Josée Paradis: Open Versus Endoscopic Septoplasty: A Single-Blinded Randomized Controlled Trial

Dr. Jason Beyea: Comparison of Hemostase Versus FloSeal in Controlling Bleeding during Endoscopic Sinus Surgery: A Non-Inferiority Randomized Controlled Trial

Dr. Hussain Alsaffar: Virtual Reality Myringotomy Simulation: Tackling Soft Tissue Deformation

Dr. Goran Jeremic: Using Photodynamic Therapy as a Neoadjuvant Treatment in the Surgical Excision of Non-Melanotic Skin Cancers: A Prospective Study

Dr. Leigh Sowerby: Sleep Apnea, Daytime Somnolence and Idiopathic Dizziness: A Novel Association

Dr. Amanda Hu: The Early Postoperative Course of Surgical Sleep Apnea Patients

Dr. Mohamed Mohamed: Quantifying Biological Creep in Minimally Invasive Thyroidectomy Incisions

Dr. Irene Zhang: Nasal Spray Outcomes after Functional Endoscopic Sinus Surgery

Dr. Michael Brandt: Validation of a Novel Scale for the Objective Evaluation of Linear Scars

2009

Dr. Hussain Alsaffar: Soft Palate Implants for Primary Snoring: A Prospective Series

Dr. Goran Jeremic: Prevalence of Trismus in Head and Neck Cancer Patients Treated with Radiotherapy

Dr. Shahin Nabi: Superiorly-Based Pharyngeal Flap Surgery for Velopharyngeal Insufficiency (VPI): When Do We See an Improvement and Is It Maintained?

Dr. Mohamed Mohamed: Analysis of Human Tissue Kallikrein Expression in Salivary Gland Tumours

Dr. Amanda Hu: Evaluation of a Three-Dimensional Educational Computer Model of the Larynx: Voicing a New Direction

Dr. Leigh Sowerby: Development and Face Validity Testing of a Three Dimensional Myringotomy Simulator with Haptic Feedback

Dr. Michael Brandt: A Prospective Evaluation of Perioperative Concerns Amongst Patients Undergoing Otorhinolaryngologic Procedures

Dr. Irene Zhang: Role of the Teres Major Muscle in Donor Site Morbidity Following Osteocutaneous Scapular Free Tissue Transfer–Evaluation of an Unconventional Method of Donor Site Closure

Dr. Scott Hamilton: Cisplatin Otoprotection Using Transtympanic L-N Acetylcysteine

Dr. Damian Micomonaco: A Double Blinded Prospective Randomized Control Trial Investigating the Effects of Autologous Plasma Adhesives on Wound Healing and Aesthetic Outcome of Area Scars

2008

Dr. Shahin Nabi: Two Heads are Better than One: The Experiences of a Combined Paediatric and Head and Neck Otolaryngology Service

Dr. Amanda Hu: Three Dimensional Educational Computer Model of the Larynx: Voicing a New Direction

Dr. Leigh Sowerby: Discrepancy between Ultrasonographic and Final Pathology Measurements in Thyroid Nodules

Dr. Michael Brandt: Atrophy Amongst Mucosa-Only versus Muscular-Mucosa Superiorly based Pharyngeal Flaps: A Pilot Animal Study

Dr. Irene Zhang: Neurofibromatosis and Velopharyngeal Insufficiency: Is there an Association?

Dr. Damian Micomonaco: Development of a New Visual Analogue Scale for the Assessment of Area Scars: The Western Scar Index

Dr. Scott Hamilton: Microvascular Changes in Radiation-Induced Oral Mucositis

Dr. Shamir Chandarana: Radiation Induced Fibrosis in Head And Neck Cancer Patients: The Development of a Comprehensive Prospective Database

Dr. Kathryn Roth: Biomechanical Properties of Facial Retaining Ligaments in the Cadaveric Model: Novel Platysmal-Hyoid Ligament Characterized

2007

Dr. Michael Brandt: Assessing Scar Measurement: Are we Measuring Correctly?

Dr. Mohamed Mohamed: Cervical Anomalies in 22Q Microdeletion Syndrome

Dr. Irene Zhang: Swallowing Quality of Life (QOL) in Advance Larynx and Hypopharynx Cancer Treated with Organ Preservation vs. Surgery

Dr. Damian Micomonaco: Development of a New Visual Analogue Scale for the Assessment of Area Scars

Dr. Scott Hamilton:

Cisplatin Otoprotection Using Transtympanic L-N-Acetyl-Cysteine

Dr. Shamir Chandarana: The Effect of Autologous Platelet Adhesives on Dermal Fat Graft Resorption Following Reconstruction of a Superficial Parotidectomy Defect: A Double-Blinded Prospective Trial

Dr. Kathryn Roth: Endoscopic Anatomy of the Orbital Floor: Discovery of an Orbitomaxillary Strut

Dr. Matthew Bromwich: The Dizzyfix - Three Trials of a Dynamic Visual Device for the Self Treatment of Benign Paroxysmal Positional Vertigo

Dr. Maya Sardesai: ALA Photodiagnosis: Histologic Correlation

2006

Dr. Damian Micomonaco: An Angiographic Study of the Anatomy and Distribution of Blood Flow of the Ethmoid Arteries

Dr. Scott Hamilton: Microvascular Changes in Oral Mucositis

Dr. Shamir Chandarana: The Use of Autologous Platelet and Plasma Products Following Salvage Neck Dissections

Dr. Kathryn Roth: Outcome Analysis of Voice-Related Quality of Life Following Medialization Thyroplasty

Dr. Matthew Bromwich: Active Audiology: The Sound of Silence


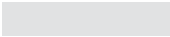








Dr. Maya Sardesai: Qualitative and Quantitative Dermal Changes with Subdermal Fat Grafting of Cutaneous Scars

Dr. Sumit Agrawal: 3D Endoscopy of the External Auditory Canal: A Step Towards Virtual Reality

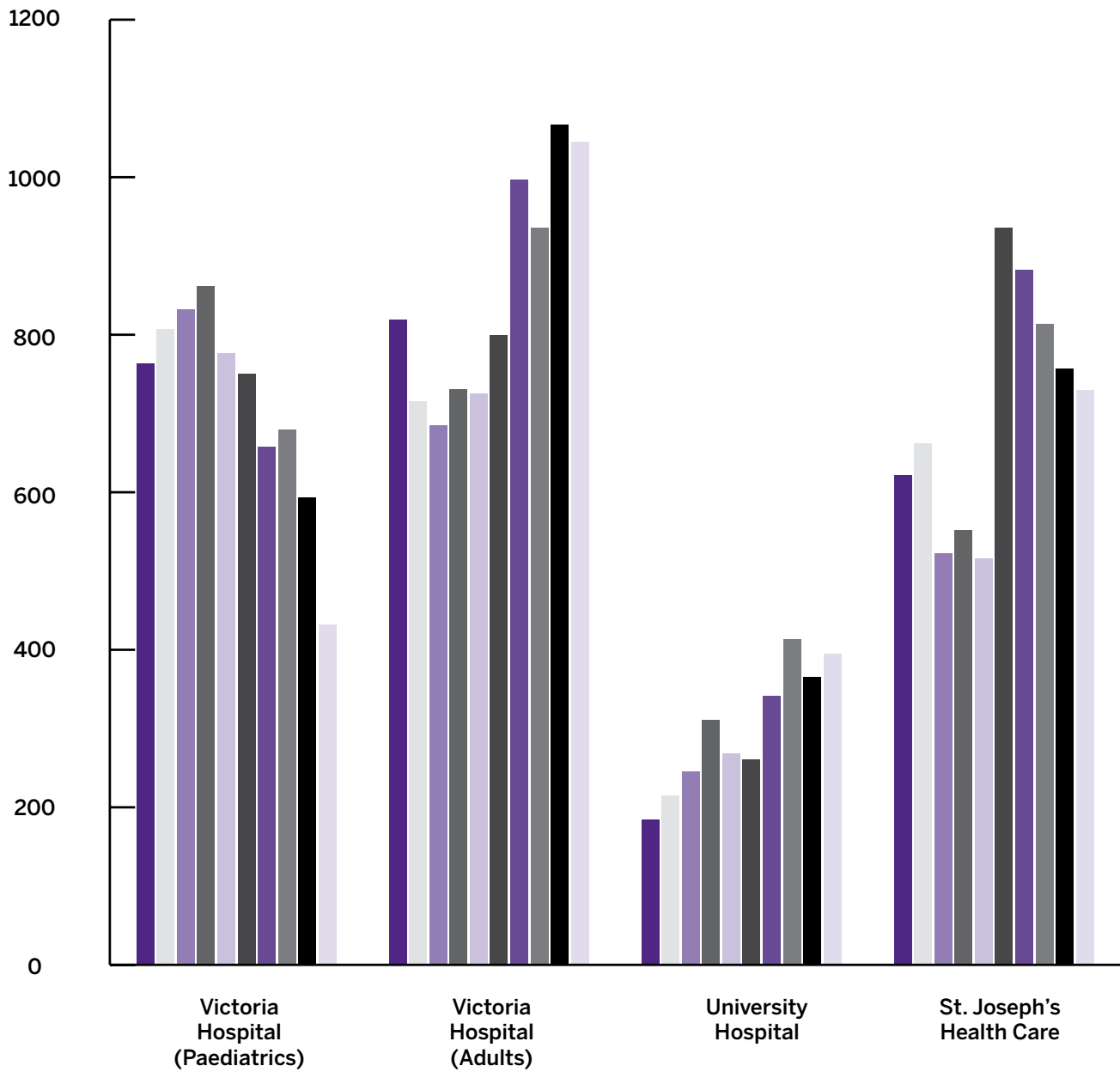
Dr. Khaled ElJallah: Donor-Site Morbidity Following Scapular Free-Tissue Transfer in Head and Neck Surgery

City-wide Clinical Trends

SURGICAL CASE VOLUME TRENDS 2005-2014

YEAR		St. Joseph's Health Care	University Hospital	Victoria Hospital (Adults)	Victoria Hospital (Paediatrics)	TOTAL
 2005		622	185	819	763	2,389
 2006		523	215	807	715	2,260
 2007		552	246	832	685	2,315
 2008		516	311	861	731	2,419
 2009		554	268	776	725	2,325
 2010		936	261	799	750	2,746
 2011		882	341	997	658	2,878
 2012		814	414	936	680	2,844
 2013		757	365	1066	593	2,781
 2014		730	395	1045	432	2,602

Note: 2014 figure for St. Joseph's Health Care are projections based on 9 months data



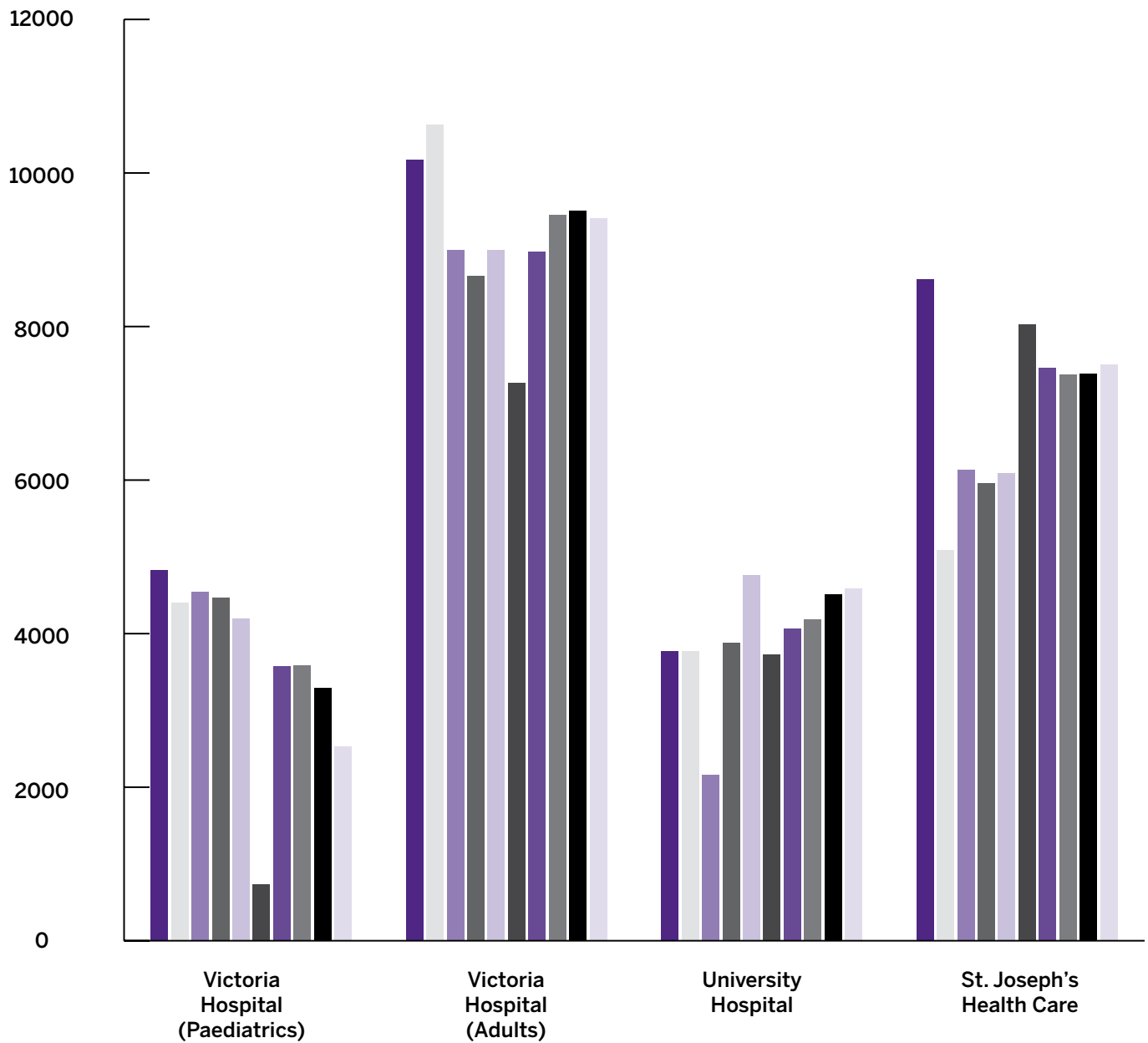
Note: 2014 figure for St. Joseph's Health Care are projections based on 9 months data

City-wide Clinical Trends

AMBULATORY CARE VOLUME TRENDS 2005-2014

YEAR	St. Joseph's Health Care	University Hospital	Victoria Hospital (Adults)	Victoria Hospital (Paediatrics)	TOTAL
2005	8,619	3,769	10,166	4,828	27,382
2006	5,094	4,276	10,625	4,405	24,400
2007	6,137	2,163	8,992	4,545	21,837
2008	5,957	3,882	8,654	4,473	22,966
2009	6,086	4,767	9,024	4,217	24,094
2010	8,032	3,732	7,266	732	19,762
2011	7,460	4,061	8,973	3,571	24,065
2012	7,379	4,185	9,449	3,587	24,600
2013	7,388	4,507	9,509	3,296	24,700
2014	7,401	4,586	9,968	3,274	25,229

Note: 2014 figure for St. Joseph's Health Care are projections based on 9 months data



Note: 2014 figure for St. Joseph's Health Care are projections based on 9 months data

Publications

2016

Hu A, Shewokis PA, Ting K, Fung K. Motivation in computer-assisted instruction. *Laryngoscope*: . 2016 June

Lorens A, Skarzynski H, Rivas A, Rivas JA, Zimmermann K, Parnes L, Lassaletta L, Gavilán J, Bodt MD, van de Heyning P, Martin J, Raine CH, Rajeswaran R, Kameswaran M, Manoj M, Pulibalathingai S. Patient management for cochlear implant recipients in audiology departments: A practice review. *Cochlear Implants Int*: 123-8. 2016 May

Yoo J, Low TH, Tam S, Partridge A, MacNeil SD, Nichols AC, Fung K. Pedicled adipofascial infraclavicular flap: elevation technique and its use for maintaining neck contour and vessel coverage after radical and modified radical neck dissection *Head Neck*: . 2016 April

Pang KP, Rotenberg BW. The SLEEP GOAL as a success criteria in obstructive sleep apnea therapy. *Eur Arch Otorhinolaryngol*: 1063-1065. 2016 April

Rotenberg BW, Pang E, Pang K, Vicini C. Reconsidering First-Line Treatment for Obstructive Sleep Apnea: A Systematic Review of the Literature. *Journal of Otolaryngology Head & Neck Surgery*: . 2016 April

Huang C, Agrawal SK, Ladak HM. Virtual Reality Simulator for Training in Myringotomy with Tube Placement. *Journal of Medical and Biological Engineering*: 214-225. 2016 April

Rotenberg BW. Inverted papilloma: The stubbornly persistent tumor of the sinonasal cavity. *Am J Rhinol Allergy*: 77-8. 2016 Mar.

Strychowsky JE, Dodrill P, Moritz E, Perez J, Rahbar R. Swallowing dysfunction among patients with laryngeal cleft: More than just aspiration? *Int J Pediatr Otorhinolaryngol*: 38-42. 2016 Mar

Ansari S, Rotenberg BW, Sowerby LJ. Oral corticosteroid prescribing habits of Canadian Otolaryngologist-Head and Neck Surgeons. *J Otolaryngol Head Neck Surg*: 17. 2016 Feb.

Abo-Shasha R, Stepniak C, Yeh DH, Rotenberg B. Metastatic mammary carcinoma to the orbit masquerading as maxillary sinusitis. *Allergy Rhinol (Providence)*: 34-6. 2016 Jan.

Kenny P, Pang , Kathleen A. Pang, Edward B. Pang, Brian Rotenberg. Current Concepts in Assessing Outcomes for OSA Surgery. *Current Otorhinolaryngology Reports*: 1-9. 2016 Jan.

Pavelec V, Rotenberg BW, Maurer JT, Gillis E, Verse T. A novel implantable device for the treatment of obstructive sleep apnea: clinical safety and feasibility. *Nat Sci Sleep*: 137-44. 2016 Jan.

Chin CJ, Chin CA, Roth K, Rotenberg BW, Fung K. Simulation-based Otolaryngology – Head and Neck Surgery boot camp: 'how I do it'. *J Laryngol Otol*: 1-7. 2016 Jan.

Chin CJ, Rotenberg BW, Witterick IJ. Epistaxis in hereditary hemorrhagic telangiectasia: an evidence based review of surgical management. *J Otolaryngol Head Neck Surg*: 3. 2016 Jan.

Dhaliwal SS, Sowerby LJ, Rotenberg BW. Timing of endoscopic surgical decompression in traumatic optic neuropathy: a systematic review of the literature. *Int Forum Allergy Rhinol*. 2016 Jan.

Pang KP, Kishore S, Kit JC, Pang EB, Chan YH, Keat SJ, Rotenberg B. Pang-Rotenberg sign-snoring surgery prognosticator: A prospective clinical trial of 153 patients. *Laryngoscope*: 260-5. 2016 Jan.

Rohin Krishnan, S. Danielle MacNeil, Monall S Malvankar-Mehta. Comparing sutures versus staples for skin closure after orthopaedic surgery: systematic review and meta-analysis *BMJ Open*. 2016 Jan.

Sommer DD, Rotenberg BW, Sowerby LJ, Lee JM, Janjua A, Witterick IJ, Monteiro E, Gupta MK, Au M, Nayan S. A novel treatment adjunct for aspirin exacerbated respiratory disease: the low-salicylate diet: a multicenter randomized control crossover trial. *Int Forum Allergy Rhinol*. 2016 Jan.

Sommerfeld C, Scott GM, Fung K, Nguyen LHP, Viallet N, French C, Gooi A. Continuing Medical Education Simulation Symposium on Airway Management for Practicing Otolaryngologists. *Laryngoscope*. 2016 Jan.

Stepniak C, Wickens B, Husein M, Paradis J, Ladak HM, Fung K, Agrawal SK. Blinded Randomized Control Study of a Web-Based Otoscopy Simulator in Undergraduate Medical Education. *Laryngoscope*. 2016 Jan.

Theurer JA, Stecho W, Yoo J, Kwan K, Wehrli B, Harry V, Black M, Pinto N, Winkquist E, Palma D, Richter S, Barrett JW, Danielle MacNeil S, Fung K, Howlett CJ, Nichols AC. Feasibility of Targeting PIK3CA Mutations in Head and Neck Squamous Cell Carcinoma. *Pathol Oncol Res*: 35-40. 2016 Jan.

2015

Chang CA, Lin T, Fung K, Sharma M. Isolated Horner Syndrome From an Elongated Styloid Process (Eagle Syndrome). *J Neuroophthalmol*: 387-9. 2015 Dec.

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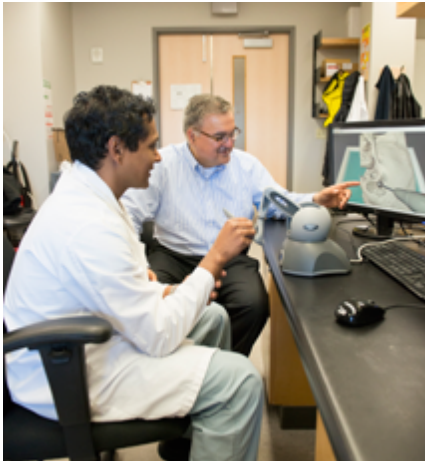
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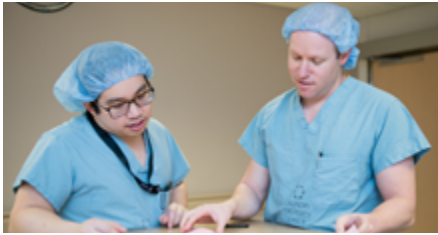
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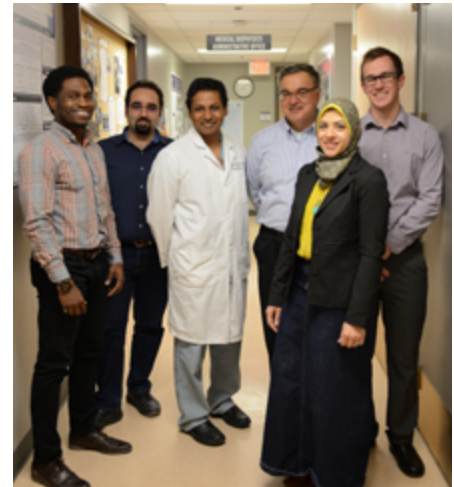
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Saab G, Driedger A, Pavlosky W, McDonald T, Wong C, Yoo J, Urbain J. TSH-Stimulated Fused PET/CT in the Evaluation of Recurrence in I-131-Negative Papillary Thyroid Carcinoma, *Thyroid March*: 267-72 2006 March.

Wallace TD, Moore CC, Bromwich MA, Matic DB. Endoscopic repair of orbital floor fractures: computed tomographic analysis using a cadaveric model. *J Otolaryngol*: 1-7 2006 Feb.

Macneil SD, Fernandez CV. Informing research participants of research results: analysis of Canadian university based research ethics board policies. *Journal of medical ethics*: 49-54 2006 Jan.

MacNeil SD, Fernandez CV. Offering results to research participants. *BMJ (Clinical research ed.)*: 188-9 2006 Jan.

Myers AM, Paradis JA, Blanchard RA. Conceptualizing and Measuring Confidence in Older Drivers: Development of the Day and Night Driving Comfort Scales *The Gerontologist*: 433 2006 Jan.

Fung K. Book Review – Prognosis in Head and Neck Cancer. *International Journal of Radiation Oncology, Biology, Physics* 2006: 66(1) 312..

JR Clark, JH Franklin, N Naranjo, MJ Odell, PJ Gullane. Sublingual gland resection in squamous cell carcinoma of the floor of mouth: Is it necessary? *Laryngoscope*, 116: 382-386, 2006..

Parnes LS. Episodic Vertigo. In – *Conn's Current Therapy*, Editors: Rakel RE, Bope ET. Publisher: Saunders Elsevier, 2006..

Rotenberg BW, Berkowitz RG. Delayed Failure of Open Repair of an Anterior Glottic Web in the Neonatal Time Period. *International Journal of Paediatric Otorhinolaryngology Extra* . 2006

van Golen CM, Schwab TS, Kim B, Soules ME, Oh SS, Fung K, van Golen KL, Feldman EL. Insulin-Like Growth Factor-I Receptor Expression Regulates Neuroblastoma Metastasis to Bone. *Cancer Research* 200



Grants

2016

MacNeil, S. Danielle, Principal Applicant, 2016 Master Class on Writing Research for Publication, Schulich Medicine & Dentistry, \$1000, 2016.

MacNeil, S. Danielle, Co-Investigator, Clinical Health Informatics Program Grant, , 2016.

Nichols, Anthony, Principal Investigator, TumorGraft-Guided Therapy for Improved Outcomes in Head and Neck Squamous Cell Cancer – A Feasibility Study, Champions Oncology, \$780,075, 2016.

Rotenberg, Brian, Principal Investigator, Developing an Ambulatory Sleep Study Program, \$39000, 2016.

2015

Fung, Kevin, Principal Investigator, Development of a Decision Board for Early Stage Oropharyngeal Cancer, LRCP Catalyst Grant for Cancer Research and Training Program - Surgical Oncology, \$30000, 2015.

Fung, Kevin, Co-Principal Investigator, LearnENT app - A Collaborative project by the Canadian Society of Otolaryngology – Head and Neck Surgery Undergraduate Medical Education, Canadian Society of Otolaryngology – Head and Neck Surgery, , \$62500, 2015.

Nichols, Anthony, Principal Applicant, Validation of a custom next generation sequencing panel for genomically driven therapy and research in head and neck cancer, London Regional Cancer Program Catalyst Grant, 2015.

Nichols, Anthony, Co-Applicant, Identification and characterization of mechanisms that contribute to human papillomavirus induced disease, Canadian Institutes of Health Research (CIHR), \$573250, 2015.

Nichols, Anthony, Principal Investigator, Mechanisms of resistance and sensitivity to PI3K inhibition in head and neck cancer., Canadian Institute of Health Research (CIHR), \$515090, 2015.

Rotenberg, Brian, Co-Applicant, Establishing an international sleep apnea surgery registry, American Sleep Medicine Foundation, \$20000, 2015.

Sowerby, Leigh, Principal Applicant, Improving System Efficiency and Cost-Effectiveness by Applying Evidence-Based and Economic Analysis to Operational Issues in Surgical and Perioperative Care, AMOSO Innovations Fund, \$135300, 2015.

2014

Agrawal, Sumit, Co-Principal Investigator, Validation and Refinement of Surgical Simulator for Myringotomy with Tube Placement, MITACS Accelerate Grant (Mathematics of Information Systems and Complex Systems), \$60000, 2014.

Agrawal, Sumit, Principal Investigator, Development and Validation of an Algorithm for Segmentation of the Cochlea from Medical Images, MITACS Accelerate Grant (Mathematics of Information Systems and Complex Systems), \$90000, 2014.

Fung, Kevin, Principal Investigator, Prospective randomized evaluation of an otoscopy simulator in undergraduate medical education, Student Research Opportunities Program - Schulich Medicine & Dentistry, \$5000, 2014.

Fung, Kevin, Co-Principal Investigator, Validation and refinement of a surgical simulator for myringotomy with tube placement, Mathematics of Information Technology and Complex Systems (MITACS), \$60000, 2014.

MacNeil, S. Danielle, Principal Investigator, Treatment and Outcomes in Head and Neck Cancer Patients: Developing a Population-Based Research Program in Surgical Oncology, Academic Medical Organization of Southwestern Ontario (AMOSO), Opportunities Fund, \$195000, 2014.

MacNeil, S. Danielle, Co-Principal Investigator, ICES Surgery Provincial Program, AMOSO Innovation Fund, \$196244, 2014.

Moore, Corey, Co-Applicant, Development and validation of a novel scar assessment scale, Western Graduate Research Scholarship, \$4756, 2014.

Nichols, Anthony, Principal Investigator, A Window of Opportunity Study to Assess Preoperative Modulation of Biomarkers in the Primary Tumor Site of Patients with Resectable Head and Neck Squamous Cell Cancer (HNSCC) Following Treatment with BYL719, Novartis Pharmaceutical Canada Inc., \$223220, 2014.

Nichols, Anthony, Principal Investigator, High-throughput drug screening of human papillomavirus positive and negative head and neck cancer cell lines, London Regional Cancer Program Catalyst Grant, \$29840, 2014.

Nichols, Anthony, Co-Applicant, Targets of the human papillomavirus E7 oncoprotein and their role in oropharyngeal cancer, Canadian Institutes of Health Research (CIHR), \$100000, 2014.

Nichols, Anthony, Principal Investigator, Detection of circulating tumor DNA as a preoperative diagnostic tool in thyroid cancer, Thyroid Foundation of Canada, \$8000, 2014.

Nichols, Anthony, Principal Investigator, Systematic identification of novel molecular targets and candidate therapeutics in anaplastic thyroid cancer, Schulich School of Medicine Dean's PhD Scholarship, \$100000, 2014.

Rotenberg, Brian, Co-Investigator, Neural Plasticity Associated with the Loss and Recovery of Vision in Patients with Pituitary Tumours before and After Medical or Surgical Intervention, PSI Foundation, \$149000, 2014.

Roth, Kathryn, Co-Principal Investigator, St. Joseph's Community Skin Biopsy and Excision Clinic, , \$5843, 2014.

Sowerby, Leigh, Principal Applicant, Improving System Efficiency and Cost-Effectiveness by Applying Evidence-Based and Economic Analysis to Operational Issues in Surgical and Perioperative Care, AMOSO, \$32500, 2014.

The Department of Otolaryngology – Head and Neck Surgery

Sowerby, Leigh, Principal Investigator, Prescribing habits of Canadian Otolaryngologists for treating Chronic Rhinosinusitis with and without nasal polyposis, Schulich School of Medicine, \$5000, 2014.

Sowerby, Leigh, Co-Applicant, ShoeBOX Audiometry: Adapting mobile device technology and wireless connectivity to provide national audiology screening for Guyana, Grand Challenges Canada, \$357000, 2014.

2013

Agrawal, Sumit, Principal Investigator, Scalar Localization of Cochlear Implants, Med-El Corporation, \$750000, 2013.

Fung, Kevin, Principal Investigator, Mobile technology in medical education, Student Research Opportunities Program - Schulich Medicine & Dentistry, \$5000, 2013.

Fung, Kevin, Co- Principal Investigator, Summer studentship for curriculum development, Schulich Medicine & Dentistry, \$5000, 2013.

Fung, Kevin, Principal Investigator, Development and Validation of a neck palpation simulation model in medical education - Part II, Summer Research Training Program - Schulich Medicine & Dentistry, \$10000, 2013.

Fung, Kevin, Co-Investigator, Evaluating a novel multidisciplinary approach to teaching in Radiation Oncology, Physicians Services Inc., \$10050, 2013.

Fung, Kevin, Principal Applicant, Leadership Development for Physicians in Academic Health Centers, Harvard School of Public Health, Faculty Development Minifellowship - Western University, \$5000, 2013.

Fung, Kevin, Principal Applicant, Leadership Development for Physicians in Academic Health Centers, Harvard School of Public Health, Department of Oncology - Division of Surgical Oncology Grant, \$5000, 2013.

MacNeil, S. Danielle, Principal Investigator, Secular Trends Laryngeal Cancer, London Regional Cancer Program Catalyst Grant, \$29319, 2013.

Nichols, Anthony, Principal Investigator, Personalized oncolytic viral therapy for the control of head and neck cancer, London Regional Cancer Program Catalyst Grant, \$28177, 2013.

Nichols, Anthony, Principal Investigator, A phase II randomized trial examining quality of life following treatment for early-stage squamous cell carcinoma of the oropharynx: radiotherapy vs. trans-oral robotic surgery (ORATOR), Canadian Cancer Society, \$222600, 2013.

Nichols, Anthony, Co-Applicant, Genetic markers of ototoxicity with cisplatin chemotherapy in head and neck cancer, London Regional Cancer Program Catalyst Grants, \$29273.4, 2013.

Nichols, Anthony, Co-Applicant, Targets of the human papillomavirus E7 oncoprotein and their role in oropharyngeal cancer., London Regional Cancer Program Catalyst Grants, \$60000, 2013.

Nichols, Anthony, Principal Investigator, Cancer Research and Technology Transfer (CaRTT) CIHR Graduate Student Scholarship - MSc Student Morgan Black., Cancer Research and Technology Transfer (CaRTT) Program (CIHR Funded), \$18200, 2013.

Nichols, Anthony, Principal Investigator, Cancer Research Training Program (CaRTT) Scholarship for MSc Student Morgan Black, Canadian Institutes of Health Research (CIHR), \$18000, 2013.

Parnes, Lorne, Principal Site Investigator, A Prospective, Randomized, Double-Blind, Placebo-Controlled, Multicenter, Phase 2b Study of OTO-104 Given as a Single Intratympanic Injection in Subjects with Unilateral Meniere's Disease, Otonomy Inc, \$47614, 2013.

Sowerby, Leigh, Principal Investigator, Effect of low salicylate diet on biochemical markers of inflammation in Aspirin-Exacerbated Respiratory Disease, Lawson Health Research Institute, \$11915, 2013.

Yoo, John, Co-Applicant, Towards an effective policy on routine follow-up for patients after curative treatment of head and neck cancer, Canadian Cancer Society Research Institute (CCSRI), \$153029, 2013.

2012

Agrawal, Sumit, Principal Investigator, Ontario Centres of Excellence - Embedded Executive for ENT Simulation Technologies Inc., Ontario Centres of Excellence, \$25000, 2012.

Agrawal, Sumit, Principal Applicant, Undergraduate Medical Education (UME) Summer Studentship Grant, Schulich School of Medicine, \$4251, 2012.

Agrawal, Sumit, Principal Investigator, Market Validation for Otoscopy Training Simulator, MaRS Discovery District Business Acceleration Program - Level-Up Fund, \$20000, 2012.

Agrawal, Sumit, Principal Investigator, Market Readiness - Otoscopy - Learning Management System", Ontario Centres of Excellence (OCE) & Academia Collaboration Program (IACP), \$100000, 2012.

Agrawal, Sumit, Co- Principal Investigator, The National Centre for Audiology, Canada Foundation for Innovation (CFI), \$765565, 2012.





2011

Agrawal, Sumit, Co- Principal Investigator, Ontario Centres of Excellence - Market Readiness Project for ENT Simulation Technologies Inc., Ontario Centres of Excellence, \$70000, 2011.

Agrawal, Sumit, Principal Investigator, Commercial-Grade Virtual-Reality Simulator for Training in Otoscopy, Federal Development Agency (FedDev) and Applied Research and Commercialization Fund (ARC), \$50000, 2011.

Franklin, Jason, Principal Investigator, "A Comprehensive Database of Thyroid Surgery", Thyroid Foundation of Canada, \$4233.36, 2011.

Fung, Kevin, Co- Principal Investigator, Auditory-perceptual evaluation of voice severity and vocal overpressure in adductor spasmodic dysphonia, Allergan, Inc, \$5000, 2011.

Fung, Kevin, Principal Applicant, CSO-HNS Undergraduate Medical Education Working Group Retreat - Ottawa 2011, Canadian Society of Otolaryngology – Head and Neck Surgery , \$10000, 2011.

Fung, Kevin, Co-Applicant, Creating attitudes towards interprofessional collaborative client-centred practice amongst medical students, Research on Teaching Small Grant, Teaching Support Centre - Schulich Medicine & Dentistry, \$2785, 2011.

Fung, Kevin, Co- Principal Investigator, Summer studentship for curriculum development, Schulich Medicine & Dentistry, \$5000, 2011.

Nichols, Anthony, Principal Applicant, Translational Program in Head and Neck Cancer, AMOSO, \$97500, 2011.

Nichols, Anthony, Co- Principal Investigator, Circulating Tumor Cells in Head and Neck Cancer, Lawson Internal Research Fund, \$14600, 2011.

Nichols, Anthony, Principal Investigator, Epidemiology of human papillomavirus-related head and neck cancer in southwestern Ontario, Merck, \$66700, 2011.

Rotenberg, Brian, Principal Investigator, CPAP and sinusitis - is there a connection?, UWO Academic Development Fund, \$4800, 2011.

Rotenberg, Brian, Principal Investigator, Outcomes Assessment in Sleep Surgery - A Systematic Review, International Sleep Surgical Society, \$2500, 2011.

Agrawal, Sumit, Principal Investigator, VentureStart Funding for ENT Simulation Technologies, VentureStart Grant, \$30000, 2012.

Franklin, Jason, Principal Investigator, "Thyroid Malignancy as a Late Toxicity of Paediatric Oncology Treatment", Western University, \$8502, 2012.

Nichols, Anthony, Principal Investigator, Control of Head and Neck Squamous Cell Cancers with Poxviruses, Western University Academic Development Fund, \$8293, 2012.

Nichols, Anthony, Principal Investigator, Investigation of NOTCH signaling in head and neck cancer, London Regional Cancer Program Small Grants Competition, \$24820, 2012.

Nichols, Anthony, Principal Investigator, Graduate Student Entrance Scholarship - for MSc Student Gianthony Rizzo, Department of Anatomy and Cell Biology, \$10000, 2012.

Rotenberg, Brian, Principal Investigator, Development and Validation of a Computer Model of the Human Pharynx in the Setting of Sleep Apnea, Lawson Health Research Institute, \$15000, 2012.

Rotenberg, Brian, Principal Investigator, Development and Validation of a Computer Model of the Human Pharynx in the Setting of Sleep Apnea, St Joseph's Health Care Foundation, \$4407, 2012.

Rotenberg, Brian, Principal Investigator, Applying the Evidence in Perioperative Medicine: Changing Admission Criteria for Surgical Patients with Sleep Apnea, AMOSO Innovation Fund, \$55000, 2012.

Roth, Kathryn, Principal Investigator, "On the Cutting Edge of Shared Care" - A longitudinal study of skill acquisition and public health reform in a combined surgery and family medicine skin cancer clinic, Academic Medical Organization of Southwestern Ontario (AMOSO), \$195000, 2012.

Yoo, John, Principal Site Investigator, Efficacy of optically-guided surgery in the management of early-stage oral cancer, Terry Fox Research Institute (TFRI), \$4000000, 2011.

2010

Agrawal, Sumit, Principal Applicant, Faculty Development Mini Fellowship, Schulich School of Medicine, \$2851, 2010.

Agrawal, Sumit, Co- Principal Investigator, Spatial Hearing, Speech-in-Noise, Sound Quality Perception, and Preservation of Residual Hearing, Med-El Corporation, \$500000, 2010.

Fung, Kevin, Principal Applicant, Transoral robotic surgery training for surgical management of head and neck cancer, Faculty Development Mini fellowship - Western University, \$2500, 2010.

Fung, Kevin, Co- Principal Investigator, Summer studentship for curriculum development, Schulich Medicine & Dentistry, \$5000, 2010.

Fung, Kevin, Principal Investigator, Development and Validation of a neck palpation simulation model in medical education, Summer Research Training Program - Schulich Medicine & Dentistry, \$10000, 2010.

Fung, Kevin, Co- Principal Investigator, The development and validation of a multimedia computer based learning module for teaching otolaryngology physical examination skills, Instructional Innovation and Development Fund (IIDF) Faculty Grant - Schulich Medicine & Dentistry, \$4500, 2010.

Moore, Corey, Principal Investigator, Synthes Educational Grant, Synthes Canada Educational Grant, \$12000, 2010.

Nichols, Anthony, Co-Investigator, Creation of HPV positive Head and Neck cancer cell lines, LRCP, \$24503, 2010.

Nichols, Anthony, Principal Investigator, Biomarkers of Radiation Failure in Head and Neck Cancer, LRCP, \$24500, 2010.

Nichols, Anthony, Principal Investigator, Evaluating the Impact of Human Papillomavirus Infection on the Epidemiology, Quality of Life and Functional Outcomes in Head and Neck Cancer in Southwestern Ontario, Summer Research Training Program (UWO), \$5000, 2010.

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Nichols, Anthony, Principal Investigator, Identifying biomarkers of radiation failure in head and neck cancer, Summer Research Training Program (UWO), \$5000, 2010.

Nichols, Anthony, Principal Investigator, Investigating key signalling pathways of head and neck cancers, London Regional Cancer Program Small Grants, \$24465, 2010.

Parnes, Lorne, Principal Investigator, Hearing Study, MEDEL, \$408000, 2010.

Parnes, Lorne, Co- Principal Investigator, Spatial Hearing, Speech-in-Noise, Sound Quality Perception, and Preservation of Residual Hearing, Med-El Corporation, \$500000, 2010.

Rotenberg, Brian, Principal Investigator, Olfactory outcomes of transsphenoidal pituitary surgery, Schulich Research Opportunities Fund, \$2570, 2010.

2009

Agrawal, Sumit, Collaborator, Computer Assisted Medical Interventions (CAMI), Natural Sciences and Engineering Research Council of Canada (NSERC), \$1650000, 2009.

Agrawal, Sumit, Co- Principal Investigator, Interactive Simulation Software for Training in Otoscopy, Western Innovation Fund (WIF), \$23730, 2009.

Agrawal, Sumit, Co-Investigator, The National Centre for Audiology: Developing and advancing hearing technologies, Ontario Research Fund (ORF), \$2440282, 2009.

Fung, Kevin, Co- Principal Investigator, Summer studentship for curriculum development, Schulich Medicine & Dentistry, \$5000, 2009.

Fung, Kevin, Co-Investigator, Evaluating a novel multidisciplinary approach to teaching in Radiation Oncology, Physicians Services Incorporated, \$10500, 2009.

Fung, Kevin, Principal Applicant, Otolaryngology – Head and Neck Surgery e-Education Working Group, Canadian Society of Otolaryngology – Head and Neck Surgery, \$10000, 2009.

Fung, Kevin, Co-Applicant, Otolaryngology – Head and Neck Surgery e-Education Working Group, University of Calgary, Department of Surgery, Division of Otolaryngology, \$10000, 2009.

Fung, Kevin, Principal Investigator, In vivo immediate visualization of the cytological structure on suspected laryngeal and oropharyngeal lesions with contact endoscopy, London Regional Cancer Centre Small Grants for Cancer Research and Education, \$20000, 2009.

Husein, Murad, Co-Investigator, Computer-Based Simulator for Myringotomy Training, Western Innovation Fund, \$23730, 2009.

Moore, Corey, Principal Investigator, A prospective randomized evaluation of scar assessment measure, Triologic Society Travel Grant, \$500, 2009.

Roth, Kathryn, Collaborator, BRIM 8 melanoma trial, , 2009.

Roth, Kathryn, Co-Investigator, On the cutting edge of shared care: a combined Family Medicine and Surgery community skin clinic, Department of Family Medicine Research Council, 2009.

Roth, Kathryn, Collaborator, STEVIE 1 Vismodegib trial, , 2009.

Yoo, John, Principal Investigator, Platelet-rich Plasma for the treatment of radiation-induced xerostomia, Biomet, \$115000, 2009.

2008

Agrawal, Sumit, Co- Principal Investigator, Patient-specific Simulation Development in Cardiovascular and Neurotology Surgery, Academic Medical Organization of Southwestern Ontario (AMOSO) Opportunities Fund, \$195000, 2008.

Franklin, Jason, Co- Principal Investigator, "The effect of pre-injury Botulinum Clostridium toxin administration in peripheral nerve regeneration", Lawson Health Research Institute, \$12000, 2008.

Fung, Kevin, Principal Investigator, Introduction of a novel teaching paradigm for head and neck anatomy, Research on Teaching Small Grant, Teaching Support Centre - Schulich Medicine & Dentistry, \$2500, 2008.

Fung, Kevin, Co-Investigator, Outcome and prognostic indicators in squamous cell carcinomas of the tonsil, London Regional Cancer Program Small Grant For Translational Cancer Research, \$6815, 2008.

Fung, Kevin, Co- Principal Investigator, Summer studentship for curriculum development, Schulich Medicine & Dentistry, \$5000, 2008.

Fung, Kevin, Principal Investigator, Patient education in the 21st century - validation of patient-centered web-based learning modules, Summer Research Training Program - Schulich Medicine & Dentistry, \$10000, 2008.

Husein, Murad, Co- Principal Investigator, Clinical Evaluation of Children with Velopharyngeal Insufficiency: Acoustic, Perceptual, and Communication Apprehension Outcomes, Paediatric Surgery Grant Competition, Children's Hospital of Western Ontario, \$5000, 2008.

Husein, Murad, Co-Investigator, Computer-Based Simulator for Myringotomy Training, Western Innovation Fund, \$30000, 2008.

Moore, Corey, Principal Investigator, A Novel Nasal Dilation Stent, Triologic Society Travel Grant, \$500, 2008.

Rotenberg, Brian, Principal Investigator, Clinical audit of patients undergoing surgery for OSA, UWO Academic Development Fund, \$6500, 2008.





Rotenberg, Brian, Principal Investigator, Nasal polypsis recurrence rates after sinus surgery, Schulich Research Opportunities Fund, \$3700, 2008.

Yoo, John, Co-Investigator, Outcome and prognostic indicators in squamous cell carcinomas of the tonsil, London Regional Cancer Centre, \$6815, 2008.

2007

Agrawal, Sumit, Co-Investigator, Virtual Surgical Rehearsal for Preoperative Planning in Frontal Recess Endoscopic Surgery, Xoran Academy for Research and Education, \$13250, 2007.

Franklin, Jason, Principal Investigator, "Surgical experience, Visual spatial ability and Microlaryngoscopy", Royal College of Physicians and Surgeons of Canada, \$22785, 2007.

Franklin, Jason, Principal Investigator, "The effect of pre-injury Botulinum clostridium toxin administration in peripheral nerve regeneration", Western University, \$8502, 2007.

Fung, Kevin, Principal Investigator, Evaluation of the Success of a 3-D Educational Computer Model of the Larynx in Teaching Laryngeal Anatomy, Research on Teaching Small Grant, Teaching Support Centre - Schulich Medicine & Dentistry, \$2500, 2007.

Fung, Kevin, Principal Investigator, Semi-Automated Computed Tomographic Volumetric Analysis of Laryngeal Carcinoma, Lawson Health Research Institute Internal Research Fund and Cronyn-Cancer Research Fund, \$9000, 2007.

Fung, Kevin, Principal Investigator, The effect of background material on lymph node palpability and size estimation, Student Research Opportunities Program - Schulich Medicine & Dentistry, \$4800, 2007.

Fung, Kevin, Co- Principal Investigator, Summer studentship for curriculum development, Schulich Medicine & Dentistry, \$5000, 2007.

Fung, Kevin, Principal Investigator, Development and Validation of Web-Based Learning Modules in Otolaryngology, Summer Research Training Program - Schulich Medicine & Dentistry, \$10000, 2007.

Husein, Murad, Principal Investigator, Atrophy Amongst Mucosa-Only versus Muscular-Mucosa Superiorly Based Pharyngeal Flaps: A Pilot Animal Study. Physicians' Services Incorporated Foundation, Physicians' Services Incorporated Foundation, \$36000, 2007.

Moore, Corey, Principal Investigator, Tensile strength of a newly described orbito-maxillary strut, Stryker - Leibinger Canada, \$1000, 2007.

Moore, Corey, Principal Investigator, Impact of nasal surgery on voice, Physicians Incorporated Services Foundation Grant, \$16000, 2007.

Moore, Corey, Principal Investigator, Impact of nasal surgery on voice, Storz Canada, \$2000, 2007.

Moore, Corey, Principal Investigator, Patient Satisfaction with photodynamic therapy for Bowen's disease: development of an outcome scale, London Regional Cancer Programs Small Grants Competition, \$8338.31, 2007.

Parnes, Lorne, Principal Site Investigator, Sudden Deafness Treatment Trial, NIDCD, 2007.

Rotenberg, Brian, Principal Investigator, Assessing vocal outcomes after nasal surgery, Physicians Services Incorporated, \$16000, 2007.

Rotenberg, Brian, Principal Investigator, Assessing vocal outcomes after nasal surgery, Karl-Storz, \$2000, 2007.

Rotenberg, Brian, Co- Principal Investigator, Evaluation of the success of a web-based module in teaching anterior nasal packing for epistaxis, Xomed-Medtronic, \$1500, 2007.

Rotenberg, Brian, Principal Investigator, For establishing an academic sleep disordered breathing surgical practice, AMOSO Opportunities Fund, \$40000, 2007.

Yoo, John, Principal Applicant, Cisplatin Otoprotection Using Transtympanic L-N-Acetyl-Cysteine: a randomized clinical trial, Head and Neck Oncology & Reconstructive Surgery Research Fung, \$25000, 2007.

2006

Agrawal, Sumit, Collaborator, National Centre for Audiology - II, Canadian Foundation for Innovation (CFI), \$1674071, 2006.

Fung, Kevin, Principal Investigator, Comparative evaluation of primary vs. secondary tracheoesophageal puncture voice restoration: Acoustic, psychophysical and quality of life outcomes, Student Research Opportunities Program, Schulich Medicine & Dentistry, \$2865, 2006.

Fung, Kevin, Co- Principal Investigator, Undergraduate Education - Assessing the needs of the curriculum and development of an Innovative Educational Model, Faculty Support for Research in Education Grant - Schulich Medicine & Dentistry, \$8000, 2006.

Fung, Kevin, Co- Principal Investigator, Summer studentship for curriculum development, Schulich Medicine & Dentistry, \$5000, 2006.

Fung, Kevin, Principal Investigator, Prospective evaluation of swallowing following neck dissection, Summer Research Training Program - Schulich Medicine & Dentistry, \$10000, 2006.

Fung, Kevin , Principal Investigator, Comparative evaluation of primary vs. secondary tracheoesophageal puncture voice restoration: Acoustic, psychophysical and quality of life outcomes, Student Research Opportunities Program, Schulich Medicine & Dentistry, \$2865 , 2006.

Fung, Kevin , Co-Principal Investigator, Undergraduate Education - Assessing the needs of the curriculum and development of an Innovative Educational Model, Faculty Support for Research in Education Grant - Schulich Medicine & Dentistry, \$8000, 2006.

Fung, Kevin , Co-Principal Investigator, Summer studentship for curriculum development, Schulich Medicine & Dentistry, \$5000 , 2006.

The Department of
Otolaryngology – Head and Neck Surgery

Fung, Kevin , Principal Investigator, Prospective evaluation of swallowing following neck dissection, Summer Research Training Program - Schulich Medicine & Dentistry, \$10000 , 2006.

Moore, Corey, Principal Investigator, Botulinum toxin type A versus saline for the improved healing of facial scars, Schulich Research Opportunities Program Award, \$1570, 2006.

Parnes, Lorne, Principal Investigator, Paediatric Bilateral Clinical Trial., Med El., \$15000, 2006.

Parnes, Lorne , Principal Investigator, Paediatric Bilateral Clinical Trial., Med El., \$15000 , 2006.

Yoo, John, Principal Site Investigator, A Randomized Trial Comparing Preservation of Function Status After Either MedPulser® Electroporation With Intratumoral Bleomycin Therapy Or Surgery In Patients With Locally Recurrent or Second Primary Squamous Cell Carcinoma of the Anterior Oral Cavity, Soft Palate, or Tonsil that Have Failed Primary Curative Therapy” and “A Randomized Trial Comparing Preservation of Function Status After Either MedPulser® Electroporation With Intratumoral Bleomycin Therapy Or Surgery In Patients With Locally Recurrent or Second Primary Squamous Cell Carcinoma of the Base of the Tongue, Posterior lateral Phary, Genetronic, Inc, \$220000, 2006.

Yoo, John, Principal Investigator, Autologous plasma adhesives following dermal-fat graft: a randomized controlled trial., Head and Neck Oncology & Reconstructive Surgery Research Fund, \$20000, 2006.

Yoo, John, Co-Investigator, Microvascular Changes in Radiation-Induced Oral Mucosities., The Head & Neck Cancer Foundation, \$20000, 2006.

Yoo, John, Co- Principal Investigator, Nutritional Support for Head and Neck Cancer Patients Receiving Radiotherapy: A Systematic Review. Student Research, Student Research Training Program, Schulich Medicine & Dentistry, Western University, \$9000, 2006.

Yoo, John, Principal Applicant, PET/CT to Image Hypoxia in Head and Neck Tumours., London Regional Cancer Program Small Grants and Research Award, \$25000, 2006.

Yoo, John, Principal Investigator, The Use of Autologous Platelet and Plasma Products Following Salvage Neck Dissections, Biomet Inc., \$30000, 2006.

Yoo, John , Principal Site Investigator, A Randomized Trial Comparing Preservation of Function Status After Either MedPulser® Electroporation With Intratumoral Bleomycin Therapy Or Surgery In Patients With Locally Recurrent or Second Primary Squamous Cell Carcinoma of the Anterior Oral Cavity, Soft Palate, or Tonsil that Have Failed Primary Curative Therapy” and “A Randomized Trial Comparing Preservation of Function Status After Either MedPulser® Electroporation With Intratumoral Bleomycin Therapy Or Surgery In Patients With Locally Recurrent or Second Primary Squamous Cell Carcinoma of the Base of the Tongue, Posterior lateral Phary, Genetronic, Inc, \$220000 , 2006.

Yoo, John , Principal Applicant, PET/CT to Image Hypoxia in Head and Neck Tumours., London Regional Cancer Program Small Grants and Research Award, \$25000 , 2006.

Yoo, John , Co-Principal Investigator, Nutritional Support for Head and Neck Cancer Patients Receiving Radiotherapy: A Systematic Review. Student Research, Student Research Training Program, Schulich Medicine & Dentistry, Western University., \$9000 , 2006.

Yoo, John , Principal Investigator, Autologous plasma adhesives following dermal-fat graft: a randomized controlled trial., Head and Neck Oncology & Reconstructive Surgery Research Fund, \$20000 , 2006.

Yoo, John , Co-Investigator, Microvascular Changes in Radiation-Induced Oral Mucosities., The Head & Neck Cancer Foundation, \$20000 , 2006.

Yoo, John , Principal Investigator, The Use of Autologous Platelet and Plasma Products Following Salvage Neck Dissections, Biomet Inc., \$30000 , 2006.



Thank you to our dedicated administrative team



Thank you to our valued Administrative Team: Ann Jones, Angelika Edwards and Charlotte Towle, for helping the Department achieve our vision to provide exemplary patient care in all subspecialties of Otolaryngology – Head and Neck Surgery.

The strength of the department is dependent on the unwavering commitment of staff and faculty and the shared vision of excellence in surgical training.

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