A Legacy of Excellence
Department of Surgery Annual Report
The Department of Surgery gratefully acknowledges the following partners and affiliates:
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It is a great pleasure to provide the annual report for the Department of Surgery. As the Department transitions to new Chair/Chief leadership in 2016 it provides me with an opportunity to reflect on the many accomplishments of the Department over the course of the last 14 years. Always a strong Department both clinically and academically, I believe the Department of Surgery at Western University has assumed a stature as one of the premier Departments of Surgery in North America. Our faculty complement has increased substantially: from 55 full time clinical academics in 2002 to more than 100 surgeons and scientists across eight Divisions in 2015. Additionally, nearly 80 adjunct faculty members located throughout the region and in Windsor contribute to the dual missions of clinical care and teaching.

London has always had a strong reputation for clinical excellence and technical expertise in managing the most complex surgical problems for patients from across Southwestern Ontario and beyond. This legacy remains intact for patients who enter the clinics and operating rooms at our teaching hospitals where they can be assured of receiving the highest quality of surgical care. The Department remains fully engaged in planning for the future in addressing access to care in a time of increasing resource constraints in a complex care environment. I have had the privilege of working with many capable members of hospital administration at both London Health Sciences Centre and St. Joseph’s Health Care London over the last 14 years all of whom have been tremendously supportive of the Department of Surgery: Tony Dagnone, Cliff Nordal, Gillian Kernaghan, Bernadette Macdonald, Kirsten Krull, Silvie Crawford, Pat Pocock and Anne Marie McIlmoyl all deserve specific mention as individuals who have contributed to the development of this great Department by way of their hard work and support. Surgery in 2015 is a team effort and our excellent outcomes are only achieved by the support we receive from other clinical Departments such as Anesthesia & Perioperative Medicine, Medical Imaging, and Pathology. Additionally the Foundations and development teams at LHSC, SJHC, Children’s Hospital and Foundation Western have all greatly assisted in efforts to establish endowments and Chair positions as the basis for future success.

Our teaching programs at both the undergraduate and postgraduate levels continue to outperform due to the dedicated efforts of all faculty and most notably the residency program directors. All programs have retained full accreditation with the Royal College of Physicians and Surgeons and exemplify the highest standards in training the next generation of surgeons. At the undergraduate level the superb efforts of all faculty have positioned us as the top Department in the country in terms of proportion of medical students applying to surgical residency via the CaRMS match. This is in no small part due to the efforts of the staff in the Education Office of the Department led by Terri MacDougall and her team. While day-to-day teaching has always been a source of pride in this Department, scholarly work in education has become a major focus of excellence with ten members having completed Masters of Education degrees at premier graduate programs in the world. The Centre for Education Research and Innovation established by former Dean of Medicine Carol Herbert and capably led by Lorelei Lingard has been a tremendous asset to the Department in fostering and providing the environment for advancing education research programs amongst our faculty. Our resident and fellow trainees are also to be thanked for their immense contributions to patient care as well as the education and research missions of the university.

The Department of Surgery was the first at the Schulich School of Medicine & Dentistry to provide an annual report such as this version which highlights the many clinical and academic accomplishments of the Department. In my Chair’s message in the 2008 inaugural report I stated, “Caring for patients is at the heart of everything we do,
but what differentiates us is our ability to do innovative clinical and basic science research. Excellence in research allows us to recruit and retain the best surgeons while fostering a creative environment where their careers can develop and flourish.” I have been very fortunate in having the opportunity to recruit close to 50 surgeons to the Department over the course of the last 14 years. This has been a long enough time span to observe individual careers flourish based on creativity, determination and role models; and has been the most satisfying part of serving as Department Chair.

Changing a culture takes time, a plan, and most importantly “brick by brick” building based on recruiting great people. I was very fortunate in having the foundation of a great Department built by my predecessors Angus McLachlin, Charles Drake, John Duff and Ken Harris. On this foundation, the new members will take the Department to an enhanced level of excellence. Sentinel achievements include establishment of the Institute of Clinical Evaluative Studies (ICES) at Western, led from the departmental perspective initially by Claire Temple and subsequently Chris Vinden, and the development of the Master of Science in Surgery program, led by Abdel Lawendy. Both of these initiatives now represent platforms for research excellence in the future. The support of the Lawson Research Institute and Faculty of Engineering deserve specific mention as key collaborators and supporting entities for our Departments expanding research program.

The Department of Surgery is the sum of its constituent parts – a federation – made ever stronger by its individual Divisions and their leaders. Thus Division Chair/Chiefs and Site Chiefs of Surgery have been indispensable components of the success in what has been achieved to date; so much so that they deserve individual credit. I have learned a tremendous amount from each of them and their support over the years in the team effort to build the Department has been deeply appreciated. They include:

DIVISION CHAIR/CHIEFS
- **General Surgery**: Brian Taylor, Ward Davies, Ken Leslie
- **Orthopedic Surgery**: Bob Bourne, Jim Roth, Steve Macdonald
- **Urology**: Joe Chin, Hassan Razvi
- **Plastic and Reconstructive Surgery**: Larry Hurst, Doug Ross
- **Vascular Surgery**: Ken Harris, Tom Forbes, Guy Derose
- **Paediatric Surgery**: David Girvan, Kellie Leitch, Leslie Scott
- **Thoracic Surgery**: Richard Inculet
- **Cardiac Surgery**: Neil McKenzie, Richard Novick, Bob Kiaii

HOSPITAL SITE CHIEFS OF SURGERY
- **Chiefs of Surgery**: Cec Rorabeck, Guy DeRose, Jim Roth, Doug Naudie, Neil Parry, and Graham King

I must conclude by mentioning the Department of Surgery staff. This is a group that for many members functions in the background yet are critical to the success of the Department both clinically and academically. In my initial years, Lynda McMillan and Kristine Schroeder were such an important support to keep me on track. In subsequent years, Dinah Frank and the team she built in the Department to include Kristine as well as Tricia Toderick-Tyner, Melissa Serrano, and Janice Sutherland will continue to serve the Department well in years ahead.

I have derived tremendous personal satisfaction in having the privilege to lead the Western University Department of Surgery over the last 14 years. I always tell people it has been the greatest opportunity to be able to lead and guide the Department. I look forward to hearing of future success as the Department progresses under new leadership towards 2020.

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“SURGERY IN 2015 IS A TEAM EFFORT AND OUR EXCELLENCE OUTCOMES ARE ONLY ACHIEVED BY THE SUPPORT WE RECEIVE.”

Dr. John Denstedt, Richard Ivey Professor & Chair/Chief, Department of Surgery
The Division of Cardiac Surgery uses a team approach to achieve the best patient care outcomes. The residency training program continues to be successful in recruitment and job placement, and collaborations in clinical research studies are well underway.

Dr. Bob Kiaii, professor and chair/chief of Cardiac Surgery, and Dr. Michael Chu, associate professor, work with cardiologist Dr. Patrick Teefy and Dr. Pantalis Diamantouros on transcatheter aortic valve implantation (TAVI) as part of the heart team. The cardiac care team at London Health Sciences Centre (LHSC) was the first centre in North America to implant the ACURATE TATM Aortic Bioprosthesis device, developed in Switzerland by Symetis SA. Since then, 25 devices have been implanted.
successfully implanted. “This is the largest number of implantations completed outside of Europe,” said Dr. Bob Kiaii.

Dr. Michael Chu and Dr. Ray Guo, associate professors, work with cardiologists Drs. Shahar Lavi and Kumar Sridhar on treating patients with mitral valve disease with the Mitraclip System from Abbott. This is a transcatheter device for percutaneous treatment of mitral valve in patients at high risk to undergo conventional mitral valve repair. Usually patients with mitral regurgitation are treated with open heart surgery. With this new device, surgeons are able to go through the femoral vein to deliver the clip and implant it, resulting in decreased risk to the patient as well as a shorter recovery time. Fourteen patients have successfully received the less invasive procedure, improving their quality of life.

Dr. Dave Nagpal, assistant professor, and Dr. Stuart Smith, associate professor and medical director of the Heart Failure Program at LHSC, lead the heart failure team. Adding to the successes achieved with the use of the HeartMate II Left Ventricular Assist Device (LVAD), a second device, the HeartWare Ventricular Assist System developed by HeartWare Corporation, has become available to heart failure patients. Ventricular assist devices allow heart failure patients to live a better quality of life while waiting for a heart transplant. Because of the Heart Failure Program and the successes of the assistive devices, the number of patients at LHSC who received heart transplants has increased with the highest number in our history being performed in the past three years.

Collaborative efforts with the Division of Vascular Surgery are also taking place, with Dr. Michael Chu and Dr. Guy DeRose, professor and chair/chief of Vascular Surgery, working together on using a new hybrid stented graft for the treatment of complex aortic aneurysms involving the aortic arch and ascending and descending aorta. The graft, known as the Thoraflex Hybrid Graft is a proximal multi-branched graft and distal stent. With this graft, cardiac and vascular surgeons can work together to turn a two-stage procedure into one stage, resulting in overall better outcomes with shorter ischaemia time, lower costs, and a shorter recovery time for the patient.

Dr. Ray Guo continues to serve as the cardiac surgery residency program director. The residency program remains one of the most sought after training programs in Canada. The Division has a successful job placement rate for graduating residents, with all graduating residents in the past few years securing cardiac surgeon positions in Canada and the United States upon completing fellowship training. The Division’s training program also allows residents to take one year off from their residency for academic enrichment. Dr. Matthew Valdis, Cardiac Surgery PGY3 resident, has taken advantage of this and is currently enrolled in the MSc in Surgery graduate program.

It has been an eventful year for the Division of Cardiac Surgery in surgical innovation and advancing patient care. We also celebrated the retirement of Dr. Richard Novick, who completed 25 years of service with Western University and LHSC. A stellar clinician, surgeon, teacher, and researcher, Dr. Novick’s retirement was a great loss for the Division; and we wish him well for the future.
MULTI-CENTRE CLINICAL TRIALS

“Engager Align Study” Collaboration between Cardiac Surgery members and Laval University in Canada and other centres in Europe, determining the efficacy of the Engager valve, (a transcatheter aortic valve) in a 26 patient randomized trial.

“Safety and Efficacy Study of the Medtronic CoreValve® System in the Treatment of Sever, Symptomatic Aortic Stenosis in Intermediate Risk Subjects Who Need Aortic Valve Replacement (SURTAVI)” One of eight Canadian centres participating in the world-wide 82-site study looking at which type of intervention is better for patients.

“Left Atrial Appendage Occlusion Study III (LAAOS III)” Working with the Population Health Research Institute in Hamilton to determine whether amputating the left atrial appendage of atrial fibrillation (AF) sufferers undergoing heart surgery for other reasons, will reverse their irregular heart rhythm.

APPOINTMENTS & ACCOLADES

Dr. M. Lee Myers elected Chair of the Stratford Festival Foundation Board and to the Advisory Board of the Brio Music Program.

Dr. Mackenzie Quantz reappointed Chair of the Specialty Committee in Cardiac Surgery for the Royal College of Physicians & Surgeons of Canada, and elected to the Executive Committee of the Canadian Society of Cardiac Surgeons.

Chief Cardiac Surgery resident, Dr. Maria Currie, PGY5, received funding from the Royal College of Physicians & Surgeons of Canada to further her graduate studies while completing her residency training. She will be defending her PhD thesis, “The Role of Visualization, Haptics, and Augmented Reality in Minimally Invasive Mitral Valve Repair” this summer and will be the first Cardiac Surgery resident to graduate with both a Masters and Doctorate degree.

Dr. Bob Kiaii recipient of the Cardiac Surgery Clerkship Teaching Award, Co-Chair of 2013 Canadian Cardiovascular Congress (CCC) Session, “Simulation: Crisis Management in Cardiovascular Medicine”, and promoted to Professor.

Dr. Michael Chu promoted to Associate Professor.

Dr. Dave Nagpal appointed Surgical Director of the Advanced Heart Failure and Heart Transplantation Program at London Health Sciences Centre.

PUBLICATIONS


Bazinet RP, Chu MW. Omega-6 polyunsaturated fatty acids: Is a broad cholesterol-lowering health claim appropriate? CMAJ. 2014 Apr; 186(6):434-9


Chamogeorgakis T, Rafael A, Shafii AE, **Nagpal D**, Pokersnik JA, Gonzalez-Stawinski GV. Which is better: a miniaturized percutaneous ventricular assist device or extracorporeal membrane oxygenation for patients with cardiogenic shock? ASAIO J. 2013 Nov; 59(6):607-11


Losenno KL, **Chu MW.** Bicuspid aortic valve disease. CMAJ. 2013 Dec; 185(18):1599


Schulz V, **Novick RJ.** The distinct role of palliative care in the surgical intensive care unit. Semin Cardiothorac Vasc Anesth. 2013 Dec; 17(4):240-8


National and International Leaders in Research, Education and Clinical Care

Division of General Surgery

A high case volume and division members with diverse areas of expertise are what can be expected from the Division of General Surgery. Trainees are exposed to a variety of specializations ranging from paediatric general surgery, hepatobiliary and pancreatic surgery, transplantation, trauma, critical care, surgical robotics, colorectal surgery, endocrine surgery, surgical oncology, gastrointestinal surgery, laparoscopic surgery, and breast surgery.

Dr. Roberto Hernandez-Alejandro, Division of General Surgery
The coming year will bring a few retirements, which has led to three new members joining the Division. Assistant Professors Dr. Nawar Alkhamesi and Dr. Julie Ann Van Koughnett both joined the colorectal surgery team, and Dr. Kelly Vogt joined the trauma team. Dr. Vogt has been awarded a position as a Schulich School of Medicine & Dentistry Clinician Scientist, specializing in clinical trials and registry-related research in the field of acute care surgery and trauma. Drs. Roberto Hernandez-Alejandro, Steven Latosinsky, Michael Ott and Muriel Brackstone have successfully completed the University’s academic promotions process.

The liver transplant team made history at the International Congress of the International Liver Transplantation Society. Dr. Hernandez-Alejandro received the Association’s Rising Star Award in 2008 as a young investigator and again in 2013 as a mentor to liver transplant fellow Dr. Kris Croome.

Division members continue to be active in administrative leadership, with many members taking on new roles in local, provincial and national committees.

Plans to develop a new wing of experimental general surgery labs at University Hospital have moved into the final stages, with the main portion of the space having recently been opened. This new space has provided more opportunities for surgeons and scientists to collaborate and advance research efforts.
GRANT FUNDING RECEIVED

ACADEMIC MEDICAL ORGANIZATION OF SOUTHWESTERN ONTARIO

“Amelioration of renal ischemia-reperfusion injury by machine perfusion using RNA interference.”
$97,500 – PI: Quan D

“Evidence-based medicine for enhanced management of complicated staphylococcus aureus infections: can we do better?”
$97,400 – PI: Mele T

“ICES Western surgery research initiative.”
$182,244 – PI: Vinden C and Welk B

CANADIAN INSTITUTES OF HEALTH RESEARCH

“Th2-polarized invariant natural killer T cells reduce disease severity in acute intra-abdominal sepsis.”
$1,000 – PI: Anantha R (CSCI Resident Research Award)

“The role of IDO1 vs IDO2 on tumour immune evasion and immune therapy.”
$313,350 – PI: Min WP

HEART AND STROKE FOUNDATION

“The role of mTOR and TLR signaling networks on alloimmune modulation in heart transplantation.”
$307,574 – PI: Min WP

LAWSON HEALTH RESEARCH INSTITUTE

“Single dose preoperative ablative radiotherapy for early breast cancer – SIGNAL Trial.”
$15,000 – PI: Brackstone M

“Assessment of hepatic hypertrophy in patients undergoing associated liver partition and portal vein ligation for staged hepatectomy.”
$20,000 – PI: Hernandez-Alejandro R

“A pilot study of silencing of Caspase 3 by RNAi in pig kidney transplantation.”
$15,000 – PI: Quan D

PHYSICIANS’ SERVICES INCORPORATED FOUNDATION

$20,000 – Co-PIs: Jones S and Livingstone M

“The use of ‘Spin’ in laparoscopic lower GI surgical trials with non-significant results: an assessment of reporting and interpretation of the primary outcomes.”
$2,000 – PI: Patel S (Resident Research Prize)

“Local resection compared to radical resection in the treatment of T1N0M0 rectal adenocarcinoma: a systematic review & meta-analysis.”
$2,000 – PI: Kidane B (Resident Research Prize)

“The establishment of a rodent model of abdominal compartment syndrome using carbon dioxide pneumoperitoneum.”
$2,000 – PI: Chadi S (Resident Research Prize)

“Introduction of a mobile device based tertiary survey application reduces missed injuries: a multi-center prospective study.”
$2,000 – PI: Moffat B (Resident Research Prize)

APPOINTMENTS & ACCOLADES

Dr. Muriel Brackstone elected Chair of the National Cancer Institute of Canada’s (NCIC) Locally Advanced Breast Cancer Working Group and to the Executive of the NCIC CTG Breast Disease Site Committee Group Executive.

Dr. Andreana Bütter appointed Associate Director of Surgical Education – Undergraduate Education.

Dr. Patrick Colquhoun received the Department of Oncology Award for Excellence in Academics.

Dr. Daryl Gray appointed Medical Advisor for Cancer Care Ontario’s MOHLTC Out-of-Country (OOC) Prior Approval Program.

Dr. Roberto Hernandez-Alejandro elected to the Scientific Board of the ALPPS Registry.

Dr. Sarah Jones received the J.H. Duff Award in recognition of commitment and dedication to teaching in general surgery.

Dr. Steven Latosinsky awarded the Division of General Surgery Resident Mentor Award.

Dr. Vivian McAlister appointed the A.D. McLachlin Professor and elected to the American Surgical Association.

Dr. Douglas Quan elected Co-Chair of London Health Sciences Centre’s Neuroendocrine Steering Committee.

Dr. Elizabeth Saettler elected Deputy Chair for London Health Sciences Centre’s Breast Disease Site Team.

Dr. William Wall received the Surgery Clerkship Faculty Award, the Surgery Clerkship Teaching Award, and the David Foster Foundation National Medical Achievement Award.

Dr. Ram Anantha, PGY5, successfully defended his master’s thesis titled “Analysis of Invariant Natural Killer
T Cells in Intra-Abdominal Sepsis” to obtain a MSc in Microbiology and Immunology with Distinction. Dr. Anantha was also selected as a recipient of the Western University School of Graduate and Postdoctoral Studies (SGPS) Scholarship in the amount of $15,000.

Dr. Kimberly Bertens. PGY5, received the CAGS Resident Teaching Award 2013-2014 academic year.

Dr. Sami Chadi. 2014 graduate of the general surgery residency program, received the Dr. George Edgar Meads Teaching Award for Excellence in Technical Ability and Teaching.

Dr. Biniam Kidane. 2014 graduate of the general surgery residency program, received the Dr. David Michael Grace Award for Excellence in Clinical Care.

Dr. Adam Maruscak. PGY5, received the Schulich School of Medicine & Dentistry John D. Brown Memorial Resident Award.

Dr. Terry Zwiep. PGY3, awarded and Ontario Graduate Scholarship toward his MSc in Surgery graduate studies.

BOOK CHAPTERS


JOURNAL ARTICLES

Alkhamesi NA, Schlachta CM. The role of aerosolized intraperitoneal heparin and hyaluronic acid in the prevention of postoperative abdominal adhesions. Surg Endosc. 2013 Dec; 27(12):4663-9


Tanaka H, McAlister VC, Levstik MA, Ghent CN, Marotta PJ, Quan D, Wall WJ. Reuse of liver grafts following the brain death of the initial recipient. World J Hepatol. 2014 Jun; 6(6):443-447


Vinden C. Nash DM, Rangrej J, Shariff SZ, Dixon SN, Jain AK, Garg AX. Complications of daytime elective laparoscopic cholecystectomies performed by surgeons who operated the night before. JAMA. 2013 Nov; 310(17):1837-41

Vinden C. Chocolate consumption and the Nobel prize. BMJ. 2014 Jan; 348:g329


An Exceptional Year for Recognition as Leaders in Orthopedic Surgery

Division of Orthopaedic Surgery

As one of the largest divisions in the Department of Surgery, the Division of Orthopaedic Surgery provides a wide range of specialized care.

Rotations in the seven clinical teaching units of the orthopaedic surgery residency program include: lower limb arthroplasty, sports medicine, paediatric orthopaedics, trauma, spine surgery, foot and ankle surgery, hand and upper limb surgery.

Dr. George Athwal, Division of Orthopaedic Surgery
With the addition of three new members, five successful faculty promotions, and several accolades received by division members, it has been an exceptional year for the Division of Orthopaedic Surgery.

Dr. Nina Suh, assistant professor, joined the hand and upper limb surgery team, while Dr. Parham Rasoulinejad, assistant professor, joined the spine surgery team.

Matthew Teeter, PhD, assistant professor, Department of Medical Biophysics, also joined the Division as an affiliated institute scientist. Dr. Teeter’s research program focuses on joint arthroplasty and kinematics, implant wear and retrieval studies, micro-computed tomography, dynamic radiography, and radiostereometric analysis.

Drs. Ruby Grewal, Marie-Eve LeBel, and Debra Bartley were promoted to the rank of associate professor and Drs. J. Robert Giffin and James McAuley were promoted to the rank of professor.

Humanitarian efforts continue to be active in the Division of Orthopaedic Surgery, with members involved in organizations such as Operation Walk and CAMTA (Canadian Association of Medical Teams Abroad).
GRANT FUNDING RECEIVED

ACADEMIC MEDICAL ORGANIZATION OF SOUTHWESTERN ONTARIO

“Early discharge and the direct anterior total hip arthroplasty: the creation of a program.”
$97,500 – PI: Lanting B

CANADIAN INSTITUTES OF HEALTH RESEARCH

“Development of a virtual training simulator to model shoulder replacement surgery.”
$379,500 – PI: Johnson J

“Dynamic micro-computed tomography for preclinical musculoskeletal research.”
$719,145 – PI: Holdsworth D

“Load-altering interventions and knee osteoarthritis progression.”
$645,273 – Co-PIs: Birmingham TB and Giffin JR

“Advancing understanding of gender, work and pain.”
$100,000 – Co-PIs: MacDermid JC and Walton D

CANADIAN ORTHOPAEDIC ASSOCIATION, CANADIAN ORTHOPAEDIC RESEARCH LEGACY GRANT

“Evaluation of conventional and patient-specific instrumentation using radiostereometric analysis.”
$20,000 – Co-PIs: Teeter M and Naudie D

INTERNATIONAL SOCIETY OF ARTHROSCOPY, KNEE SURGERY AND ORTHOPAEDIC SPORTS MEDICINE AND THE ORTHOPAEDIC RESEARCH AND EDUCATION FOUNDATION

“Multi centre randomized clinical trial comparing anterior cruciate ligament reconstruction with and without lateral extra-articular tenodesis in individuals who are at high risk of graft failure.”
$200,000 – PI: Getgood A

LAWSON HEALTH RESEARCH INSTITUTE

“Radiostereometric analysis of reverse total shoulder arthroplasty.”
$15,000 – PI: Teeter M

“Contribution of pro-inflammatory cytokine TNF – to the development of compartment syndrome.”
$15,000 – PI: Lawendy AR

MINISTRY OF LABOUR

“Firefighter performance by age and gender.”
$235,032 – Co-PIs: MacDermid JC and Sinden K

MUSCULOSKELETAL TRANSPLANT FOUNDATION

“Techniques to reduce meniscus extrusion during meniscus allograft transplantation.”
$51,000 – PI: Getgood A

NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL OF CANADA

“Development of biomechanical feedback devices and robot-assisted technologies for orthopaedic applications.”
$25,000 – PI: Ferreira L

“Novel mechanical systems to perform biomechanical assessments of the shoulder.”
$23,000 – PI: Johnson J

ORTHOPAEDIC TRAUMA ASSOCIATION

“A prospective randomized multi centre study to compare open reduction, tightrope fixation and ligament repair (AR) versus open screw fixation (OS) of the fibular syndesmosis.”
$98,000 – Co-PIs: Lawendy AR and Sanders D

“Therapeutic application of CO-releasing molecule (CORM-3) in large animal model of compartment syndrome.”
$50,000 – PI: Lawendy AR

PHYSICIANS’ SERVICES INCORPORATED FOUNDATION

“A randomized trial comparing the direct lateral, anterior, and posterior approach: Imaging and clinical outcomes in total hip arthroplasty.”
$19,500 – PI: Vasarhelyi E and Petis S

APPOINTMENTS & ACCOLADES

Dr. George Athwal selected as one of the top 28 shoulder surgeons in North America in the September 24 issue of Orthopedics This Week.

Dr. Steven MacDonald named inaugural J.C. Kennedy Chair in Orthopaedic Surgery.

Dr. Douglas Naudie appointed to Site Chief of Surgery at University Hospital, London Health Sciences Centre and awarded the C.H. Rorabeck Award.

Dr. Marie-Eve LeBel received her Master of Health Professions Education from the University of Illinois at Chicago. Thesis title, “Contextualization of Simulation-based Training for Basic Arthroscopic Skills”.

Dr. Abdel-Rahman Lawendy received his PhD from Western University. Thesis title, “Pathophysiology of Compartment Syndrome”. A US and Canadian regular patent application were filed on April 15, 2014 for “Treatment of Compartment Syndrome”. CA 2,848,895; US 14/253,750
Dr. Alan Getgood awarded a Department Of Surgery Clinician Scientist Award.

Dr. Ruby Grewal awarded a Department Of Surgery Clinician Scientist Award.

Dr. J. Robert Giffin received the O’Donoghue Award from the American Orthopaedic Association for Sports Medicine, earned his Executive MBA from Ivey Business School with an Ivey Scholar designation, selected for the University Students’ Council Teaching Honour Roll Award of Excellence, and received the Fowler Kennedy Sport Medicine Clinic Team Award of Excellence.

Dr. Joshua Giles, PhD Candidate, Biomedical Engineering (Supervisors: Drs. James A. Johnson & George S. Athwal) received the Collip Medal Award.

Dr. Graham King appointed as the Site Chief of Surgery, St. Joseph’s Health Care and awarded the American Academy of Orthopaedic Surgeons (AAOS) Achievement Award for Educational Service to the AAOS.

Dr. Mark MacLeod appointed the inaugural Chief Medical Officer at London Heath Sciences Centre.

Dr. David Sanders selected for the University Students’ Council Honour Roll Award of Excellence for 2013 and 2014, and awarded the W. Harvey Bailey Teaching Award.

Dr. James McAuley elected Chair of two committees with the Canadian Orthopaedic Association: the Arthroplasty Program Committee and the Finance and Audit Committee.

Dr. Kenneth Faber awarded the Dr. H.S. Cameron Award for Education Excellence.

**BOOK CHAPTERS**


Lapner M, **King GJ**. Radial head fractures. In: Instructional Course Lectures. 2014; 63:3-13
Lapner M, King GJW. Elbow arthroplasty for distal humeral fractures. In: Instructional Course Lectures. 2014; 63:15-26


Vasarhelyi E, MacDonald SJ. Exposure Techniques in Revision Total Knee Arthroplasty – Chapter 4. In: Total Knee Replacement. Rossi, Bonasia; 2013. p. 27-36


**JOURNAL ARTICLES**


Arumugam V, MacDermid JC. A theoretical model to embrace physical activity counselling in primary care practice. Health Science Inquiry – Special Issue Primary Health Care and Health Care Reform. 2014; 5:96-8


Cheung DK, MacDermid J, Walton D, Grewal R. The construct validity and responsiveness of sensory tests in patients with carpal tunnel syndrome. Open Orthop J. 2014 May; 8:100-7


Coenen M, Kus S, Rudolf KD, Müller G, Berno S, Dereskwitz C, MacDermid J. Do patient-reported outcome measures capture functioning aspects and environmental factors important to individuals with injuries or disorders of the hand? J Hand Ther. 2013 Oct-Dec; 26(4):332-42; quiz 342


Constand MK, MacDermid JC. Applications of International Classification of Functioning, Disability and Health in goal-setting in health care. Disabil Rehabil. 2014; 36(15):1305-14

Corten K, Struelens B, Evans B, Graham E, Bourne RB, MacDonald SJ. Gastrocnemius flap reconstruction of soft-tissue defects following infected total knee replacement. Bone Joint J. 2013 Sep; 95-B(9):1217-21


Dewan N, MacDermid JC. Effect of box taping as an adjunct to stretching-strengthening exercise program in correction of scapular alignment in people with forward shoulder posture – A randomised trial. ISRN Rehabilitation. 2014; Article ID 510137, 12 pages


Katchky RN, King GJ. Johnson JA, Athwal GS. The bicapital tuberosity and radial head are unreliable landmarks for radial head implant alignment. J Shoulder Elbow Surg. 2013 Sep; 22(9):1242-7


MacDermid JC, Miller J, Gross AR. Knowledge Translation Tools are Emerging to Move Neck Pain Research into Practice. Open Orthop J. 2013 Sep 20; 7:582-93


Marsh JD, Bryant DM, MacDonald SJ, Naudie DD. Patients respond similarly to paper and electronic versions of the WOMAC and SF-12 following total joint arthroplasty. J Arthroplasty. 2014 Apr; 29(4):670-3


McCalden RW, Robert CE, Howard JL, Naudie DD, McAuley JP, MacDonald SJ. Comparison of outcomes and survivorship between patients of different age groups following TKA. J Arthroplasty. 2013 Sep; 28(8 Suppl):83-6


Shao Y, Zhang C, Charron KD, Macdonald SJ, McCaIden RW, Bourne RB. The fate of the remaining knee(s) or hip(s) in osteoarthritic patients undergoing a primary TKA or THA. J Arthroplasty. 2013 Dec; 28(10):1842-5


Teeter MG, McAuley JP, Naudie DD. Fracture of Two Moderately Cross-Linked Polyethylene Tibial Inserts in a TKR Patient. Case Rep Orthop. 2014 Jan; 2014;491384

Tutunea-Fatan OR, Bernick JH, Lalone E, McDonald CP, King GJW, Johnson JA. Assessing the performances of collision driven numerically-simulated implantation in elbow replacement surgery. IJCAET. 2013 Aug; 5(4):263-290


Vincent JI, MacDermid JC, Grewal R, Sekar VP, Balachandran D. Translation of Oswestry disability index into Tamil with cross cultural adaptation and evaluation of reliability and validity(§). Open Orthop J. 2014 Jan; 8:11-9


Walton DM, MacDermid JC, Taylor T; ICON. What does ‘recovery’ mean to people with neck pain? Results of a descriptive thematic analysis. Open Orthop J. 2013 Sep 20; 7:420-7

Walton DM, MacDermid JC. A brief 5-item version of the Neck Disability Index shows good psychometric properties. Health Qual Life Outcomes. 2013 Jul 1; 11:108


Leaders in Surgical Education and Paediatric Research Collaboration

Division of Paediatric Surgery

Established in 2003, the Division of Paediatric Surgery is the newest Division in the Department of Surgery. It is comprised of paediatric sub-specialists from a variety of backgrounds including general surgery, urology, neurosurgery, ophthalmology, otolaryngology, orthopaedics, plastic surgery and dentistry. The Division is dedicated to providing the best paediatric care possible to children from Southwest, Northwest and Central Ontario. The Division has grown substantially since its early beginnings and continues to increase its mark on clinical, academic and research activities under the leadership of Dr. Leslie Scott, associate professor and Division Chair/Chief.
Paediatric care from Division members has become more involved internationally with Dr. Damir Matic, associate professor, joining in medical missions in the Cayman Islands through the organization Cayman Orthopaedic Group, and Dr. Megan Cashin, assistant professor, travelling to Ecuador with the Canadian Association of Medical Teams Abroad (CAMTA).

On the local front, Dr. Raymond Lee, adjunct professor, participated in the fund raising events Sharing Smiles Day at Western University and the Night of Heroes event for Community Living London.

Committed to the academic mission of the Schulich School of Medicine & Dentistry, Division members are involved in all levels of paediatric medical education – undergraduate, postgraduate and fellowship training. Dr. Andreana Bütter, paediatric general surgeon, was appointed director of surgical education – undergraduate education and serves as an examiner for the paediatric surgery board exams. Paediatric orthopaedic surgeon Dr. Megan Cashin was appointed co-chair of the Undergraduate Year 2 – Musculoskeletal Curriculum Committee, and Dr. Debra Bartley, assistant professor in paediatric orthopaedic surgery, was appointed coordinator of the surgical clinical clerkship at Victoria Hospital, LHSC and elected subcommittee chair of the Accreditation Committee, Institutional Self-Study Task Force, Educational Resource Standards at Western University.

The Division has recently had two members, Drs. Debra Bartley and Sumit Davé, successful in their academic promotion to the rank of associate professor.

With such a varied faculty, collaborative research opportunities are ever-present in the Division, involving members from the Divisions of Orthopaedic Surgery, Plastic & Reconstructive Surgery, the Centre for Education Research & Innovation (CERI), and the Department of Paediatrics.

Through collaboration with the Paediatric Surgical Chiefs of Canada (PSCC), the Division has partnered with other academic health centres across Canada to develop programs that look at improving quality outcomes in paediatric surgical care; the first national target being outpatient post-operative pain management. The Division has also partnered with CAPSnet, a national paediatric surgical data network which focuses on congenital anomalies. The network is envied throughout the world, and has improved the short-term outcomes of patients with congenital diaphragmatic hernias and gastroschisis as well as developed evidence-based treatment strategies.
GRANT FUNDING RECEIVED

CHILDREN’S HEALTH RESEARCH INSTITUTE

“Brain variability in children with and without previous IVH.”
$7,000 – PI: De Ribaupierre S

CANADIAN INSTITUTES OF HEALTH RESEARCH

“Development and validation of new technologies to monitor hydrocephalus.”
$367,156 – PI: De Ribaupierre S

PHYSICIANS’ SERVICES INCORPORATED FOUNDATION

$20,000 – Co-PIs: Jones S and Livingstone M

APPOINTMENTS & ACCOLADES

Dr. Debra Bartley selected as the Paediatric Orthopaedic Representative for the LHSC Clinical Services Renewal Project at London Health Sciences Centre.

Dr. Andreana Bütter received the Paediatric Surgery Clerkship Teaching Award and elected Chair of Victoria Hospital’s Paediatric Surgery Finance Committee at London Health Sciences Centre.

Dr. Megan Cashin joined the newly created national research group Canadian Paediatric Orthopaedic Group (CPOG).

Dr. Sumit Dave serves on the Editorial Board of the Journal of Progress in Paediatric Urology and received the Canadian Urological Association Astellas Research Award.

Dr. Sarah Jones serves as Associate Editor of the Journal of Paediatric Surgery and received the JH Duff Award.

Dr. Damir Matic elected AONA CMF International Representative to the AO International Education Committee.

Dr. Neil Merritt elected Chair of the Canadian Association of Paediatric Surgeons’ Trauma Committee and Chair of the Trauma and Injury Prevention Committee for the Canadian Association of Paediatric Surgeons, selected for the Board of Directors of the Trauma Association of Canada, and recipient of the USC Teaching Honour Roll Award of Excellence.

JOURNAL ARTICLES

Anantha RV, Lim RK, Merritt NH. Laparoscopic removal of an occult foreign body causing penetrating abdominal trauma in a child. CMAJ. 2014 Mar; 186(4):285-8

Anantha RV, Stewart TC, Rajagopalan A, Walsh J, Merritt NH. Analgesia in the management of paediatric and adolescent trauma during the resuscitative phase: the role of the paediatric trauma centre. Injury. 2014 May; 45(5):845-9


Dave S. Opening the door to new therapeutic options with open label studies for children with detrusor overactivity. Can Urol Assoc J. 2014 May; 8(5-6):181-2


Malowany JI, Merritt NH, Chan NG, Ngan BY. Nested stromal epithelial tumor of the liver in Beckwith-Wiedemann syndrome. Pediatr Dev Pathol. 2013 Jul; 16(4):312-7


Bringing Research and Innovation to Education and Clinical Care

Division of Plastic & Reconstructive Surgery

The Division of Plastic & Reconstructive Surgery serves the Southwestern Ontario population and also see patients from across Canada with complex reconstructive problems. Division members specialize in a variety of subspecialties such as hand surgery, reconstructive microsurgery, breast surgery, adult and paediatric craniofacial surgery, cleft lip and palate, burn care, peripheral nerve surgery, aesthetic surgery, wound healing, and cutaneous malignancies.

The minimally invasive surgery operating room at CSTAR (Canadian Surgical Technologies & Advanced Robotics)
The past year saw the addition of two recruits to the Division. Dr. Aaron Grant, assistant professor, joined the Division at University Hospital, LHSC. His clinical and research interests include melanoma, breast reconstruction and surgical education. Dr. Chris Doherty, assistant professor, joined the Roth McFarlane Hand and Upper Limb Centre (HULC) at St. Joseph’s Hospital, where he specializes in peripheral nerve surgery, hand and wrist surgery and reconstructive plastic surgery. Dr. Doherty’s research focuses on clinical outcomes research, large database research and decision and cost-effectiveness analysis.

The annual Resident Research Day featured keynote speaker Dr. Nick Carr, from the University of British Columbia. As the Chair of the Division of Plastic Surgery at UBC, Dr. Carr’s academic interests are in hand surgery and aesthetic surgery, and clinically he is the leading Vancouver specialist in cosmetic plastic surgery. At this annual event, all residents present an annual research project in plastic surgery.

Further research opportunities are provided through fellowships: the Ablative & Reconstructive Breast Fellowship offered through the London Regional Cancer Centre; the Synthes Canada Craniofacial Fellowship directed by Division member, Dr. Damir Matic, associate professor, at Victoria Hospital; the Roth McFarlane Hand & Upper Limb Centre Fellowship, which accepts graduates of recognized orthopaedic, plastic, and general surgery programs; and postdoctoral research fellowships with Division scientists, Dr. David O’Gorman, assistant professor, Dr. James Johnson, professor, and Dr. Joy MacDermid, professor, in their research laboratories at St. Joseph’s Hospital.
GRANT FUNDING RECEIVED

LAWSON HEALTH RESEARCH INSTITUTE

“Fibrosis-derived factors as novel enhancers of rotator cuff tendon repair.”
$15,000 – PI: O’Gorman DB and Faber KJ

CIHR

“Hyaluronan:protein interactions in chronic inflammation.”
$500,000 – Co-investigator with Dr. Eva Turley

WORLD DISCOVERIES INDUSTRY GRANT

“Assessing the efficacy of a novel Hyaluronan-Phosphatidylethanolamine cream.”
$100,000 – Co-investigator with Dr. Eva Turley

DEPARTMENT OF SURGERY INTERNAL RESEARCH GRANT

“Hyaluronic Acid-Phosphatidylethanolamine Cream: A novel transdermal drug delivery system.”
$5,000 – Dr. Arjang Yazdani Co-investigator with Dr. Eva Turley

DEPARTMENT OF SURGERY INTERNAL RESEARCH GRANT

“Can bladder injections be replaced with simple bladder instillation of Botulinum toxin A.”
$25,000 – Dr. Arjang Yazdani Co-investigator with Drs. Sumit Dave and Eva Turley

AMOSO OPPORTUNITIES FUND

“The development of a model to study load transmission in the craniofacial skeleton.”
$65,000 – Dr. Arjang Yazdani Co-investigator with Dr. Tom Jenkyn

APPOINTMENTS & ACCOLADES

Dr. Brian Evans received the Plastic & Reconstructive Surgery Clerkship Teaching Award.

Dr. Douglas Ross re-appointed Chair/Chief of the Division of Plastic & Reconstructive Surgery; assumed the role of Chair of the Specialty Committee in Plastic Surgery for the Royal College, serves as a member of the Assessment Committee for the Royal College, serves as Chair of the Educational Foundation, Canadian Society of Plastic Surgeons (CSPS) and serves on the Board of Directors of the CSPS.

Dr. Damir Matic selected for the Global Technical Committee of the Freiburg Germany Stryker Craniofacial Corporation, serves as AONA CMF International Representative, AO International, Education Committee (Davos, Switzerland), serves as Member, Examination Board in Plastic Surgery for the Royal College.

Dr. Bing Siang Gan serves as a member of the Examination Board in Plastic Surgery for the Royal College, serves on the Editorial Board of the Canadian Journal of Plastic Surgery, serves as Co-director of the Roth McFarlane Hand & Upper Limb Cell Biology Laboratory. He is one of Canada’s leading experts in Dupuytren’s disease and studies the basic mechanisms of this disease as well as investigating the use of collagenase therapy for treatment.

Dr. Arjang Yazdani co-supervised (with Dr. Eva Turley) Dr. Caitlin Symonette in her successful achievement in the first cohort of students in the new Masters of Surgery program. Dr. Symonette’s project was entitled, “Quantifying the Effect of a Novel topical Hyaluronic-Acid Phosphatidylethanolamine Cream on the Epidermis.”

Dr. David O’Gorman and researchers at Lawson Health Research Institute were the first to demonstrate that insulin-like growth factor-II (IGF-II) can help cells in Dupuytren’s disease to contract tissues.

JOURNAL ARTICLES


Dr. Ross performing hand surgery at St. Joseph’s Health Care London, Division of Plastic & Reconstructive Surgery
International Leaders in Clinical Trials

Division of Thoracic Surgery

The Division underwent a successful external review recognizing that the Division of Thoracic Surgery is a “leading Division at the National Level particularly in the areas of superb clinical outcome and clinical training”. The past year also included two Canadian firsts: the first Robotic assisted Trans Hiatal Esophagectomy, and the first Robotic assisted Trans Thoracic Esophagectomy.

Dr. Richard Inculet, professor and chair/chief of Thoracic Surgery, was reappointed as Chair/Chief of the Division of Thoracic Surgery. He also completed his two year term in September 2014 as President of the Canadian Association of Thoracic Surgeons (CATS), now serving as Past President.
Dr. Richard Malthaner, professor, was elected to the CATS executive and as the CATS representative to the Specialty Committee. Dr. Malthaner was also appointed to the American Joint Committee on Cancer’s Upper GI Expert Panel, and Cancer Care Ontario’s (CCO) Surgical Management of Gastric Cancer Committee. Dr. Dalilah Fortin was promoted to the rank of associate professor and appointed the Division’s Program Director. Dr. Fortin is a member of the Royal College of Physicians & Surgeons of Canada (RCPSC) Thoracic Specialty Committee, and was reappointed as Communication Chair of the CATS Executive. Dr. Eric Frechette, assistant professor, recently became an ICES Scholar. Dr. Frechette introduced Endo Esophageal Ultrasound to London Health Sciences Centre – Victoria Hospital, and was appointed to the RCPSC Thoracic Surgery Examination Committee.

The Division welcomed two international Thoracic Surgery Fellows, Drs. Manal Alnaimi and Ali Albargawi from Saudi Arabia. They will be training for two years in a program following the curriculum of the RCPSC Thoracic Surgery Residency training program. Dr. Alnaimi will return to Saudi as the first female Thoracic Surgeon in the country. Visiting Romanian thoracic surgeon Dr. Eus Memu was awarded a one year CSTAR – Ethicon fellowship in minimally invasive surgery and simulation. His project is to develop a series of operating room case simulations to evaluate Thoracic Surgery residents in collaboration with members of the Department of Anesthesia and Perioperative Medicine.

Thoracic Surgery resident Dr. Shaun Coughlin was awarded the 2014 Canadian Association of Thoracic Surgeons Robert Ginsberg Resident Research award for his research presentation entitled “Is it safe to wait? The effect of Surgical Wait Time on Survival in Non-small cell lung Cancer”. His research presentation also received the Canadian Journal of Surgery “Editors Choice Award”. Ms. Debra Lewis, CRA, has been appointed as a member of the Audit Committee of The Alliance for Clinical Trials in Oncology.

The Division of Thoracic Surgery is nationally and internationally renowned as clinical trials investigators and collaborators. Presently, members are involved in at least six major trials.
■ GRANTS

ACADEMIC MEDICAL ORGANIZATION OF SOUTHWESTERN ONTARIO (AMOSO)

“ICES Western Surgery Research Initiative.”
$182,000 – PI: Vinden C, Welk B, (Co-investigators)
Malthaner R et al.

DEPARTMENT OF SURGERY INTERNAL RESEARCH FUND

“Risk of recurrence of primary spontaneous pneumothorax: a population-based cohort study.”
$20,000 – PI: Fréchette E

■ JOURNAL ARTICLES


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National and International Success Driven by Vision and Mentorship

Division of Urology

The past year was one of medical breakthroughs and research developments in the Division of Urology. Dr. Joseph Chin, professor, performed a transurethral magnetic resonance (MR) guided ultrasound ablation for prostate cancer, a world-first in the treatment of localized prostate cancer. Dr. Patrick Luke, professor, and Dr. Alp Sener, assistant professor, made Canadian history by performing the first living-donor kidney removal for transplant purposes using a single incision point.

Hon Leong, PhD, assistant professor and affiliated institute scientist, Division of Urology
Chair/Chief and professor, Dr. Hassan Razvi and his multidisciplinary team set up a special kidney stone prevention clinic at St. Joseph’s Hospital, one of the first of its kind in Canada.

Dr. Hon Leong, assistant professor and affiliated institute scientist, also joined the Division of Urology this past year. Dr. Leong is a translational cancer researcher focused on prostate, bladder, kidney and breast cancer, and will be carrying out his research in his lab at the Lawson Health Research Institute in St. Joseph’s Hospital.

Dr. Alp Sener was appointed director of the urology residency program. Covering all of Southwestern Ontario and beyond, the Division of Urology receives a high volume of clinical activity. Residents and fellows are given the opportunity to work with faculty members with expertise in various subspecialties, such as andrology/male sexual health, urinary incontinence, oncology, transplantation, minimally-invasive surgery, endourology, urinary stone disease and paediatric urology.

THE DIVISION OF UROLOGY IS COMMITTED TO PROVIDING EXCELLENCE IN PATIENT CARE, COMPREHENSIVE SURGICAL EDUCATION, AND CUTTING EDGE RESEARCH.
GRANT FUNDING RECEIVED

ACADEMIC MEDICAL ORGANIZATION OF SOUTHWESTERN ONTARIO (AMOSO)

“Investigating drug resistance and targeted patient therapy in kidney cancer using the chick chorioallantoic membrane model.”
$97,500 – PI: Power N

“Predicting drug resistance in metastatic renal cell carcinoma: Individualizing targeted therapy by xenografting patient tumours into chick embryos.”
$237,246 – PI: Power N

“Secular trends in the incidence and timing of surgery in boys with undescended testes and hypospadias in Ontario.”
$65,000 – PI: Dave S

CANADIAN UROLOGY ASSOCIATION FOUNDATION

“Novel delivery method of supplemental hydrogen sulphide and caspase-3 siRNA during mechanical perfusion are protective in a donation after cardiac death model of porcine renal transplantation.”
$50,000 – PI: Sener A

“The anatomy of post-chemotherapy retroperitoneal lymph node dissections for testis cancer: a cadaveric study of the aortic plexus and patterns of lumbar vessels.”
$40,000 – PI: Power N

CANADA FOUNDATION FOR INNOVATION

“Simulation and imaging laboratory for the study of ischemia reperfusion injury and inflammation in transplantation.”
$69,017 – PI: Sener A, Gunaratnam L

CANADIAN MALE SEXUAL HEALTH COUNCIL

“The effect of penile traction therapy in Peyronie’s disease can be quantitated and optimized potentially with intrapenile verapamil injections: an animal model with important clinical implications.”
$50,000 – PI: Brock G

CANADIAN UROLOGIC ONCOLOGY GROUP

“PCA3 may be superior to PSA in detecting prostate cancer using a gold standard radical cystoprostatectomy pathological model.”
$10,000 – PI: Izawa J

“Do levels of expression of T-cells’ and NK cells’ ligands in the tumor tissue predict the response to BCG instillation therapy in patients with non-muscle-invasive urothelial carcinoma?”
$10,000 – PI: Izawa J

GRAND CHALLENGES CANADA

“Using locally sourced probiotic food to reduce levels of potent environmental toxins.”
$113,000 – PI: Reid G

KIDNEY CANCER CANADA

“Investigating drug resistance using the chick chorioallantoic membrane model.”
$15,000 – PI: Power N

KIDNEY CANCER RESEARCH NETWORK OF CANADA

$15,000 – PI: Power N

LAWSON HEALTH RESEARCH INSTITUTE

“Pilot study for a randomized controlled trial assessing the efficacy of antimicrobial prophylaxis for extracorporeal shock wave lithotripsy on reducing urinary tract infection.”
$14,656 – PI: Pautler S

ONTARIO NEUROTRAUMA FOUNDATION

“Home-based monitoring for management and prevention of bladder complications in persons with spinal cord injuries.”
$590,075 – Co-Pls: Welk B, Nigro M, Stothers L

“Urologic health service needs among patients with traumatic spinal cord injuries.”
$50,000 – PI: Welk B
“A randomized controlled trial assessing the efficacy of antimicrobial prophylaxis for extracorporeal shock wave lithotripsy on reducing urinary tract infection.” $102,000 – Co-PIs: Razvi H and Violette P

“The protective role of supplemental hydrogen sulphide in allogeneic renal transplantation following prolonged cold storage.” $99,500 – PI: Sener A

“Electronic library for improved urinary and bowel function post-treatment.” $818,405 – PI: Chin J

“Prostate cancer micro-particles in plasma as a fluid biopsy for screening of prostate cancer.” $450,000 – PI: Leong H

“Assessment of novel urinary markers of tissue injury following shock wave lithotripsy.” $14,456 – PI: Razvi H

“Canadian Kidney Cancer Information System (CKCis).” $24,980 – PI: Pautler S


The Department of Surgery Annual Report

Dr. Alp Sener, Division of Urology
**JOURNAL ARTICLES**


Chin JL. Following radical prostatectomy, to beam or not to beam? Eur Urol. 2013 Oct; 64(4):565-6


Dave S. Opening the door to new therapeutic options with open label studies for children with detrusor overactivity. Can Urol Assoc J. 2014 May; 8(5-6):181-2


Pautler SE. Reporting the Canadian Robotic Experience: The Outcomes and How We Report Them. Can Urol Assoc J. 2013 Sep; 7(9-10):333-4


Welk B. Surgery Vs Physiotherapy for Stress Urinary Incontinence. Urology. 2014 Feb; 83(2):261


Dedicated to excellence and leadership in patient care, education and research, the Division of Vascular Surgery performs more than 800 major surgical procedures a year. Collaborating with colleagues across several disciplines, the Division provides complete care for patients with vascular diseases, including risk reduction, medical management, percutaneous interventions, endovascular and open surgical procedures.

This past year brought a significant change to the Division, with Dr. Thomas Forbes, former chair/chief of Vascular Surgery and professor, having been recruited to lead the vascular surgery division at the University of Toronto. While Dr. Forbes’ departure is a big loss, the Division is still very proud that Dr. Forbes was recruited to one of the top vascular positions in Canada. A graduate of the vascular surgery training program at Schulich School of Medicine & Dentistry, Western University, Dr. Forbes was a member of the Division for 16 years, leading it as Chair/Chief for nine years. Dr. Guy DeRose is now serving in the role of Acting Chair/Chief, Division of Vascular Surgery, while the Division continues in its formal search for new leadership.

Though small in number, the Division continues to move forward, building on its vision for the future and continuing to make noteworthy contributions to the field of vascular surgery nationally and internationally. Currently, during vascular training there is significant focus on endovascular training and technology. Dr. DeRose sees a need evolving for further training in advanced open-surgery and are in the process of developing an advanced aortic surgery fellowship. This puts the vascular surgery program at Schulich School of Medicine & Dentistry, Western University, in a unique position as not many programs in Canada are able to offer this type of fellowship. Collaborative efforts have already been put into place, with the Division working closely with cardiac surgeons, cardiologists, and geneticists to treat patients with complex aortic pathologies.

Dr. Guy DeRose at London Health Sciences Centre, Division of Vascular Surgery
The Division’s endovascular program is well-known around the world, providing treatment for all aspects of elective and emergent aortic pathologies including thoracic and abdominal aortic aneurysms, dissections, traumatic injuries and thoracoabdominal aneurysms with branched and fenestrated grafts.

Dr. Adam Power, assistant professor and vascular surgery residency program director, served as co-director of the Second Annual Canadian Endovascular Skills Summit this past year. The summit teaches junior residents the basics of endovascular skills through a series of workshops with wet and dry labs. Throughout the year, Dr. Power holds simulation sessions for vascular surgery residents to teach basic endovascular skills and endovascular aneurysm repair. Dr. Power is also a lecturer in the MSc in Surgery program on the topic of “Innovation, Intellectual Property and Commercialization of Medical Devices” and is a professional portfolio mentor at the School for undergraduate medical students.

The Division offers the Vicky Blair Fellowship, which is awarded each year to a post-graduate fellow, junior faculty member, or a physician working in the area of vascular surgery looking to enhance his or her technical skills, knowledge or general ability to practice vascular surgery. The Division is also involved in the Department’s graduate program, the MSc in Surgery. Dr. Luc Dubois, assistant professor, developed the graduate level course “Surgery 9200A – An Introduction to Statistics for the Surgeon-Scientist”, which is required for all MSc in Surgery students. Dr. Dubois also developed an interactive seminar series for vascular surgery residents, titled “Mastery of the Evidence Seminar Series”, designed to give residents a foundation in evidence-based medicine.

The annual Western/McMaster vascular surgery resident research day was held this past year, featuring a keynote address by Dr. Audra Duncan, professor of surgery, Mayo Clinic, Rochester MN, on the topic of “Aortic Endograft Explanation for Infection and Endoleak”.

In addition to a strong vascular surgery residency training program, the Division is active in ongoing research efforts. Dr. Dubois is an integral part of the new surgical investigators group at ICES Western and was recently cross-appointed to the Department of Epidemiology & Biostatistics, where he is conducting ongoing research in the field of patient-derived outcomes. Dr. Dubois has been accepted to the ICES Western Faculty Scholars program, and submitted an application to the Summer Research Training Program (SRTP) at the School. His proposed PAIRS study (Patient Imaging Review and Satisfaction), looks at the role of patient imaging review and satisfaction with preoperative decision to undergo surgery.

Dr. Power is the principal investigator for the Medtronic IDE Study, the ENGAGE study, and for the current randomized controlled trial, “Negative Pressure Wound Therapy” having already recruited more than half of the number of patients needed. Dr. Power also presented on venous disease at the Winnipeg Vascular Symposium; and at the Toronto Endovascular Conference (TEC).

Moving forward, the Division remains committed to its vision of providing the highest standard of patient care in an environment of teaching surgical excellence for vascular surgeons of the future.
GRANT FUNDING RECEIVED

DEPARTMENT OF SURGERY INTERNAL RESEARCH FUND

“Redefining clinical success from the patient’s perspective: Exploring dimensions of patient-centered clinical success using visual research.”

$20,000 – PI: Dubois L

APPOINTMENTS & ACCOLADES

Dr. Guy DeRose elected Co-Chair of the Clinical Strategy Program Steering Committee and Co-Chair of the Clinical Leadership Committee at London Health Sciences Centre.

Dr. Adam Power received the Vascular Surgery Clerkship Teaching Award, elected to the Royal College of Physicians & Surgeons of Canada’s Vascular Surgery Specialty Committee, selected as key reviewer for the Journal of Vascular Surgery, and appointed to the Canadian Association for Wound Care (CAWC) Advisory Board.

Dr. Luc Dubois awarded a Department of Surgery Clinician Scientist Award.

Dr. Sanjay Patel, PGY 3, received the 2013 J.C. Luke Award from the Canadian Society for Vascular Surgery.

Dr. Kevin Lee, PGY4, received the award for Top Paper Presentation at the Western/McMaster Vascular Surgery Resident Research Day.

BOOK CHAPTERS


JOURNAL ARTICLES


Power AH, Forbes TL. Part two: against the motion. We do not need level 1 evidence comparing best medical treatment with TEVAR in patients with uncomplicated type B aortic dissection. Eur J Vasc Endovasc Surg. 2013 Sep; 46(3):278-9


A Unique Graduate Program for Surgical Trainees

MSc in Surgery

Currently in its second year, the MSc of Surgery program is tailored to the unique needs of surgical trainees; providing an intensive research experience and a solid foundation for success as an academic surgeon. A combination of coursework, basic/clinical/applied research, thesis preparation and defense, the program is intended to fully prepare these individuals specifically seeking future positions in Academic Health Science Centres for the demands of a research career in relation to the CanMeds roles of Medical Expert and Scholar.

Dr. Abdel-Rahman Lawendy
Graduate Program Chair
2014-15 MSc IN SURGERY STUDENTS

Dr. Erin Donohoe, Division of Orthopaedic Surgery
Supervisor: Dr. Abdel-Rahman Lawendy

Dr. Prateek Goyal, Division of Orthopaedic Surgery
Supervisor: Dr. Jamie Howard

Dr. Moustafa Haddara, Division of Orthopaedic Surgery
Supervisor: Dr. Abdel-Rahman Lawendy

Dr. Krupal Patel, Department of Otolaryngology
Supervisors: Dr. Anthony Nichols and Dr. Muriel Brackstone

Dr. Kevin Perry, Division of Orthopaedic Surgery
Supervisor: Dr. Jamie Howard

Dr. Matthew Valdis, Division of Cardiac Surgery
Supervisor: Dr. Bob Kiaii

Dr. Terry Zwiep, Division of General Surgery
Supervisor: Dr. Douglas Quan

Dr. Hanaa Alhothi, Division of Urology
Supervisor: Dr. Blayne Welk