The goal of the Department of Emergency Medicine is to foster excellence in patient care by providing high-quality education, conducting innovative research, promoting evidence-based medicine, and supporting our dedicated clinicians.
DEPARTMENT OF EMERGENCY MEDICINE

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An efficient, dynamic department
It is an honour and great pleasure to present the second University of Manitoba Department of Emergency Medicine Biennial Report.

As I write this, it is still winter in Winnipeg, but the ice is already melting and great chunks were flowing down the Assiniboine as I walked its banks. Further north, the ice won't begin to melt for a few more months, but still earlier than in years past. More and more, researchers are finding nature reflected and recapitulated in their work, so perhaps it's no surprise that I began to think of our Department as an iceberg.

Remember the Archimedes principle from physics? It is responsible for the fact that only 10% of the volume of an iceberg is visible above the surface. Similarly, 90% of the work of our Department is performed below the water, known only to those who care to dive deeper. That impressive, gleaming contour and the ease with which our ‘berg’ sits in the water belies the enormous forces expended from below to keep it afloat. Each department in our faculty is its own iceberg, unique in shape but alike in essence, immersed in and buoyed by science, largely independent, joining with others for a time, then breaking free again to float alone, but forever changed by the encounter. Finally, but critically, despite its heft, our iceberg is incredibly vulnerable to its environment for sustenance and survival.

What will it/we look like in the future? As you browse through these pages, you will get a foretaste of that, as well as a strong sense of past and present. The History of the DEM section provides a glimpse into our origins and the development of our new specialty, de novo. In some cases, forerunners of today’s practices were already in evidence decades ago; in others, the future could not possibly have been foretold.

Mentorship has always been a part of medical training. Dr. Gerry Bristow was an informal mentor to many of the first generation of Emergency Physicians in Manitoba, but mentorship is now formally embedded in our postgraduate curriculum. Similarly, the performance pressures in the ED, once thought to preclude the possibility of a long career, have always been there but are now being formally addressed by our High Performance Physician Program. Ambulance “drivers” have been replaced by well-trained paramedics in a fully integrated and medically supervised program, with a growing body of scholarly work. Our research efforts are expanding exponentially; our simulation and ultrasound programs are state-of-the-art and continuing to grow. That much we know.

But it is the unknown, especially the “unknown unknown” that most animates academics and is the raison d'être of an academic enterprise. What will be the state of health care a generation from now and how can we make our part of it better? What new innovation will rival ultrasound and ‘Sim’, and drive our residents to further their expertise? What will our University and Department look like: still standing strong and tall, or melting in rising waters? And what questions have we failed to even ask that will impact our patients’ futures?

The courage to ask new questions, to challenge the status quo, and find new ways to create and translate new knowledge, is what has always defined academic medicine, inspired our researchers and innovators, and will continue to shape and sustain our future.

My heartfelt thanks to our enormously talented and dedicated faculty, who keep us afloat, and especially to Dr. Brigitte Reynolds, who took on the daunting task of producing our biennial report and did a top-notch job.
Emergency Medicine is a relatively young specialty that has undergone a vast transformation over the past 40 years. The development of Emergency Medicine into an independent discipline in Manitoba traces its roots to the late 1970s and early 80s, thanks to the dedication of a group of young, skilled clinicians and the leadership of Dr. Gerry Bristow, the ‘grandfather’ of Emergency Medicine in Manitoba.
The need for full-time leadership in EM was first recognized by Dr. John Wade, who at the time was VP of Medicine and Head of Anesthesia at the Health Sciences Centre (HSC). In the early 1960s, Dr. Wade had worked as a general practitioner in the small town of Taber, Alberta. As a newly minted medical graduate with a one-year internship under his belt, Dr. Wade was forced to manage emergent and critically ill patients with little formalized training in these fields. Although he went on to complete residency training thereafter in Anesthesia and Critical Care at the University of California San Francisco, Dr. Wade never forgot his early rural experience. As he took on various leadership roles over his distinguished career, he recognized the need for formalized training in emergency medicine and the potential for ED care to improve patient care and provide specialized medical education and training. Emergency Departments at the time were mainly staffed by young interns, with a small number of attending physicians of variable backgrounds providing supervision. The attitude of the time, in the absence of EM specialists or postgraduate training, was to view the 'ER' as a valuable but necessarily transient experience, before moving on to further residency training. Despite the fact that the ER was, even then, the first point of contact for the most critically ill and injured patients, such were the medical mores of the time.

In 1976, Dr. Wade appointed Dr. Gerry Bristow the first full-time Director of the Emergency Department at HSC. Dr. Bristow had completed postgraduate training in anesthesia, critical care, and internal medicine. He had also worked as a general practitioner/anesthetist in Selkirk and as an anesthetist at Health Sciences Hospital. This particular skill-set provided a breadth of knowledge in primary care, medical emergencies, resuscitation and critical care needed for providing leadership in the ED. The legacy of Dr. Bristow's tenure as Director of the HSC ED includes increased academic teaching of nurses, medical students, and medical trainees; communication between EMS and the ED; training in resuscitative medicine; and the origins of formalized recognition of emergency medicine as a distinct discipline.

In 1984, the Royal College of Physicians and Surgeons of Canada administered the first specialty exams in Emergency Medicine. By 1987, Dr. Gary Beazley established the Academic Section of Emergency Medicine at the University of Manitoba, within the Department of Family Medicine. Drawing from the same group of physicians that had pioneered the Undergraduate Program, an administrative infrastructure was created by the new Academic Section Head (Dr. Aleks Chochinov), which included Undergraduate (Dr. Ira Ripstein), and CME (Dr. Urbain Ip) directors.

By 1988, a CCFP-EM residency had been established and, in 1990, an FRCP-EM residency (directed by Dr. Neil Swirsky) followed closely on its heels.

The FRCP-EM and CCFP-EM residency programs both flourished during the 1990s, producing a number of specialists in EM who practiced in Manitoba and across Canada. In 1996, Dr. Wes Palatnick was appointed joint Medical Director of the WRHA Emergency Program and Academic Section Head. Dr. Palatnick’s subspecialty certification in Toxicology also reflected the emerging trend of emergency medicine specialists to make significant academic contributions to related fields, including EMS, Trauma, Public Health, Point-of-Care Ultrasound, and others.

By the early 2000s, the University Section of EM was well-established and the residency programs had grown substantially. In 2006, with the support of the former and current Deans of Medicine and the leadership of Dr. John Sokal and others, a proposal for Departmental status was developed, endorsed by the Faculty and Senate, and approved by the U of M Board of Governors. On June 1, 2008, the Department of Emergency Medicine at the University of Manitoba was born.

Today, the Department of Emergency Medicine at the University of Manitoba has grown exponentially from its humble roots, with two highly sought-after residency programs, consistently excellent reviews for its clerkship curriculum, and a growing body of academic and research achievements.

Dr. John Wade

Dr. John Wade is an anesthetist by training with a distinguished career in Manitoba that has included positions as Dean of the University of Manitoba, Founding Chair of the Canadian Patient Safety Institute, Chair of the Board of the Winnipeg Regional Health Authority, and Deputy Minister of Health for Manitoba. He was Chair of the Royal College of Physicians and Surgeons Health and Public Policy Committee when CanMEDS was developed and introduced. CanMEDS is a medical education framework that emphasizes the essential competencies of a physician that has been adopted across the world. Dr. Wade has received multiple awards for his contributions to medicine in Canada.
Dr. Gerry Bristow graduated from the Faculty of Medicine (U of M) in 1964 and undertook his Anesthesia Residency Training at the Hospital of the University of Pennsylvania, Philadelphia, and the Health Sciences Center, Winnipeg, from 1966-70. He received his Anesthesia Fellowship (FRCPC) in 1970. He worked as a general practitioner/anesthetist in Selkirk, Manitoba and as an anesthetist at Health Sciences Centre and Seven Oaks Hospital. In 1976, he was appointed the first full-time Director of the Emergency Department at HSC by VP Medicine, Dr. John Wade.
Q: What was the Emergency Department like when you took over?
A: The Emergency Department occupied two ATCO trailers intended as temporary accommodation in the 1950s. They were only replaced fifty years later! The Department consisted of a triage desk, police room, interview room, three bed resuscitation room, six bed acute treatment area, a suture suite, and a five bed observation unit.

Because many of the physicians were relatively inexperienced and the physician leadership was frequently off-site, the nurses really provided a lot of support and direction. They were often the ones providing the initial diagnosis, early care, and contacting appropriate services.

The EMS system now in place didn't exist at the time. Ambulances were privately owned and often associated with funeral homes. There was no official dispatch and therefore seldom communication between paramedics and the Emergency Department. There was no first responder program, and the Winnipeg Fire Department wasn't involved in EMS.

We also taught Basic Cardiac Life Support — which was a new practice at the time — to all first year medical students. We started a didactic program of teaching in 1978 for incoming third year students, to prepare them for clerkship. So the ED became a learning centre for undergraduate students as well.

We initiated a program - the first of its kind in Canada - to assess and train International Medical Graduates (IMGs) to become eligible for internship and licensure in Manitoba. Over 50 IMGs were successful between 1977 and 1985. A great deal of credit must be given to the emergency physicians who acted as their teachers, evaluators and mentors.

We also worked with Mayor Bill Norrie to help establish the Winnipeg Ambulance Service that replaced the private ambulance companies. We worked with the Winnipeg Fire Department to introduce the use of first responders to start assisting on medical calls so that early CPR and BLS could be initiated faster.

Q: Were you involved in the development of the Department of Emergency Medicine and Residency Training?
A: By the 1980s, the Royal College and College of Family Physicians of Canada were both developing specialty training in EM. I was a member of the Royal College Nucleus Committee of Emergency Medicine. When I started practice, there was no Department of Emergency Medicine or Section of Emergency Medicine in Family Medicine. When I left the Emergency Department in 1985, we were a Section of Family Medicine.

Q: What do you remember most about your time as Head of the Emergency Department?
A: I admired the nurses and physicians very much. The nurses were truly one of the strengths of the Emergency Department because they were so affable, experienced and knowledgeable. There was much collegiality amongst all of the staff. One important lesson that my nine year tenure in the Emergency Department taught me was that an excellent cohesive staff could easily overcome the significant deficiencies in the physical structure.
Our Achievements

Our physicians and residents have been recognized locally, nationally, and internationally.

We celebrate their achievements in clinical and academic excellence and honour their dedication to serving communities in need at home and around the world.
DR. MERRIL PAULS (CAEP) Dr. Helen Karounis Memorial Award for Professionalism in Emergency Medicine

Dr. Pauls earned a Master’s Degree in Bioethics shortly after his emergency medicine training and has been teaching and publishing in the field ever since. He helped to develop a national educational initiative for the Canadian Association of Emergency Physicians (CAEP) — the Risky Business educational roadshow — and is chair of the CAEP ethics committee. He is co-lead of Professionalism teaching for the College of Medicine at the University of Manitoba. Dr. Pauls was recently awarded the Dr. Helen Karounis Memorial Award for Professionalism in Emergency Medicine by CAEP. The award is given in recognition of a physician who upholds the highest standards of professionalism in Emergency Medicine, inspires others to do the same, and exemplifies integrity, honesty, and ethical conduct.

DR. CAROLYN SNIDER (CAEP) Dr. Alan Drummond Advocacy Award

Dr. Snider is an emergency physician at the Winnipeg Health Sciences Centre, a Scientist at the Children’s Hospital Research Institute of Manitoba and an Associate Professor in the Department of Emergency Medicine at the University of Manitoba. She is the Chair of the Trauma Illness and Injury Prevention Committee for the Canadian Association of Emergency Physicians. Dr. Snider graduated from McMaster Medical School in 2003, completed her Master of Public Health degree in Injury Epidemiology from Johns Hopkins Bloomberg School of Public Health in 2007 and her Emergency Medicine training at the University of Toronto in 2008. Prior to moving to Winnipeg in the summer of 2011, Dr. Snider worked at St. Michael’s Hospital in Toronto as an emergency and trauma physician, as an injury researcher at Keenan Research Centre in the Li Ka Shing Knowledge Institute at St. Michael’s Hospital and as Assistant Professor, Department of Medicine (Division of Emergency Medicine), University of Toronto. Dr. Snider’s primary research focus is the design, implementation and evaluation of interventions for preventing youth violence. Dr. Snider was honored with the Dr. Alan Drummond Advocacy Award by CAEP in recognition of her contributions to advancing research in youth violence and for her advocacy work on behalf of violence prevention strategies in the E.D. The award is presented to an emergency physician who has demonstrated exemplary leadership and dedication to the cause of advancing the discipline at the regional, national and international level through advocacy efforts. For further information on Dr. Snider’s work, see page 46.
DR. BRYCE MAKAR  
Educator of the Year at St. Boniface General Hospital in 2014

Dr. Bryce Makar grew up in Winnipeg and attended the U of M medical school, graduating in 2008. In 2013, he completed postgraduate training in the FRCP emergency medicine program at the U of M. Since then, he has worked as an emergency physician at many of the EDs in Winnipeg but mainly St. Boniface Hospital and Seven Oaks Hospital. Bryce loves working with learners and has quickly distinguished himself as a knowledgeable and gifted teacher with a passion for medical education. His interests outside of medicine include cooking, golf, snowboarding and physical fitness.

DR. TERRY KLASSEN  
( CAEP) Dr. Marilyn Li Pediatric Emergency Medicine Leadership Award

Dr. Klassen is a pediatric emergency physician with a cross-appointment to the DEM. He is a national and international leader in the pediatric emergency medicine research community. For his outstanding contributions to pediatric emergency medicine, Dr. Klassen was recognized by CAEP with the Dr. Marilyn Li Pediatric Emergency Medicine Leadership Award. This award recognizes a physician who has promoted excellence in themselves and others as a mentor, strong collaborator within the PEM and EM communities, and as a leader in advancing pediatric emergency medicine. For further information on Dr. Klassen’s achievements, see page 49.

DR. FRED GOEKE  
Manitoba Physician Assistant Educator of the Year

Dr. Fred Goeke was honoured with the Manitoba Physician Assistant Educator of the Year award in 2014 and was recognized at a reception by the many students who have benefitted from his expertise and support over the past seven years.

Dr. Goeke is an emergency physician at Seven Oaks General Hospital, Director of the Inter-Professional Training Programs, and Critical Care Course Coordinator for the Masters of Physician Assistant Studies at the University of Manitoba. With his assistance, the Masters of Physician Assistant program has expanded its clinical sites and recruited additional preceptors and teachers in emergency medicine.

DR. CHERYL FFRENCH  
Educator of the Year at Health Sciences Hospital in 2014 and 2015 and PARIM On-Site Educator of the Year Award in 2015

Dr. Cheryl ffrench was born and raised in Winnipeg, where she completed her undergraduate education, medical education and residency in the FRCP-EM program at the University of Manitoba. She now works as an emergency physician at Health Sciences Centre, is Director of Simulation for the DEM and Associate Director of the FRCP Residency Program.

Beyond these leadership roles, Cheryl is a truly exceptional teacher. Many medical students and residents seek Cheryl out as a mentor because of her approachable manner, sense of humour, clinical expertise, and enthusiasm for teaching learners as a preceptor, lecturer, and as simulation director. Her tireless dedication to medical education has not gone unnoticed. Cheryl was honoured by PARIM (Professional Association of Residents and Interns of Manitoba) as On-Site Educator of the Year in 2015 and was recognized with the Educator of the Year Award at HSC for both 2014 and 2015.
At five years of age, Chau Pham fled Vietnam as a boat child. Her parents sent her away for her own safety and to provide what they hoped would be a better future for her. After two years in a refugee camp and daily treatment for tuberculosis, she was welcomed to Winnipeg under a church-based refugee sponsorship program. With the guidance and love of her adoptive Canadian family, she has garnered a lifetime of accomplishments.

At seventeen, Dr. Pham and her adoptive mother founded a national charity called Canadians Helping Kids in Vietnam. Over the past twenty years, the charity has worked successfully to improve the lives of some of the poorest families in Vietnam.

Dr. Pham graduated from our FRCP-EM Program in 2010 and obtained her MBA from the University of Manitoba in 2013. Since 2010, Dr. Chau has worked as an emergency physician at St. Boniface Hospital and at Health Sciences Centre. She is also the Director of Ultrasound and of the High Performance Physician Program in the Department of Emergency Medicine. Chau was nominated as Most Outstanding Clinician (Clerkship), University of Manitoba, in 2011, and was also a finalist for the Future Leaders of Manitoba Award.

In 2011, she was the recipient of the Doctors Manitoba Dr. Jack Armstrong Humanitarian Award for outstanding contributions in the service of humanity. In 2012, Dr. Pham was the recipient of the Woman of Distinction Award for Voluntarism, Advocacy, and Community Enhancement, YMCA-YWCA Winnipeg. She was also named a University of Manitoba Distinguished Alumni Award winner.

In 2014, she participated on a panel for International Women’s Day entitled, “Inspiring Change for Women in Manitoba.” Invited by the Hummingbird Education Fund whose goal is to help empower underprivileged women through education, this cause is dear to her heart, as she reflects on how the generosity and mentorship of others changed her life through education.

Dr. Pham and her husband, Dr. Christian La Riviere, also an emergency physician at Health Sciences Centre, have also started a new formal mentorship program this year for the FRCP residents for the first three years of residency. Each resident is matched with an FRCP attending emergency physician who will help to guide them professionally, academically, clinically, and personally.

Dr. Pham inspires learners and colleagues with her passion for teaching and her dedication to serving others, at home and abroad.
Canadians Helping Kids in Vietnam (CHKV) was co-founded by Dr. Chau Pham in 1995 to increase opportunities and support for children to further their education and to improve health care delivery in Vietnam. In addition, the charity responds to emergency requests arising out of natural disasters.

This past February 2016, Dr. Chau Pham, Director of Missions for CHKV, led a medical team from Manitoba to conduct a two-week educational symposium at An Giang Provincial Hospital in Long Xuyen, Vietnam. Canadian members volunteering their time and expertise included the following:

**DEM FACULTY:**
- Dr. Chau Pham (EM)
- Dr. Christian La Riviere (EM)
- Dr. Dave Easton (ICU/EM)
- Dr. Lisa Bryski (EM)
- Dr. Hareishun Shanmuganathan (EM/Peds EM)
- Dr. Aaron Webb (PGY-5 EM)
- Dr. Anne Sutherland (PGY-3 EM)

**U OF M FACULTY:**
- Dr. Stasa Veroukis (Peds ICU)
- Dr. Stephanie Johnston (Obs/Gyn)
- Dr. Joanna Webb (CCFP)

**SHOCK TRAUMA AIR RESCUE SERVICE (STARS):**
- Brent Bekiariks
- Sarah Painter

The team of Canadian specialists offered lecture presentations and hands-on clinical training at skills stations using donated equipment. The symposium focused on adult and pediatric trauma and cardiovascular resuscitation, as well as obstetric emergencies, women’s health, and point of care ultrasound. Over 130 Vietnamese physicians from across the province were able to attend the symposium, and many more were able to participate through Telehealth. At the end of symposium, the Canadian team donated the majority of the equipment.

Thanks to the generosity of donors, the CHKV mission team was also able to present 100 students in Vietnam with new bicycles to facilitate attendance at school and presented six months of financial support to another 100 families.

The success of CHKV’s 2016 mission was supported financially and professionally by each team member, the Department of Emergency Medicine, the University of Manitoba Sim Lab, STARS, the Health Sciences Centre Foundation, and many generous donors.
**DR. ANGELA DERKSEN AND THE CANADIAN MEDICAL ASSISTANCE TEAMS (CMAT)**

The April 2015 earthquake in Nepal killed over 8,000 people and injured more than 21,000. Dr. Angela Derksen volunteered with Canadian Medical Assistance Teams (CMAT) after the devastating earthquake. The WHO assigned the team to the Gorkha District, approximately 25 km from the epicentre. The team visited birthing centres and community health centres to provide a needs assessment of the population, monitor for infectious diseases, and to report back their findings to the UN Health cluster. The team also trekked to nearby villages whose road access had been disrupted by landslides to provide basic medical care and supplies.

Dr. Angela Derksen is a member of the DEM, where she participates in the education of physician assistants, medical students, and residents. She is an emergency physician at Seven Oaks General Hospital.

**DR. ELIZA CHAN AND THE SHANTOU MEDICAL EXCHANGE**

Since 2004, Shantou University Medical College in China has been sending four to six medical students to the University of Manitoba for clinical electives, lasting six to eight weeks each year.

Students divide their time during electives between Family Medicine and Emergency Medicine. Various members of the DEM have participated as clinical preceptors for Shantou students as they rotate through the ED.

Dr. Eliza Chan is an emergency physician at Concordia General Hospital and has been coordinator of the Emergency Medicine component of these electives since 2013. She coordinates clinical exposure time in emergency medicine and organizes orientation and teaching sessions for students. In 2016, four students in their final years of medical training will participate in electives at the University of Manitoba.
Clinical Excellence

The emergency department is a fast-paced, ever changing environment that receives more and more patient visits every year.

Emergency Physicians strive to meet the many challenges of the ED. We dedicate ourselves to continuously staying up to date with the latest medical advances, and maintaining the wide breadth of knowledge needed to accurately diagnose and treat every patient that comes through our doors. We prepare and train so that we can perform life-saving procedures in a stressful, high-stakes environment. We provide leadership and direction during the resuscitation of critically ill and injured patients. We work to hone our communication skills so that we can explain complex medical conditions and treatment options with clarity and compassion during stressful, at times tragic life events.

Day or night, we strive to provide the best possible care to each and every patient. Our doors are always open.
Day or night, we strive to provide the best possible care to each and every patient.
SEVEN OAKS HOSPITAL: The Emergency Department at Seven Oaks General Hospital receives over 44,000 patient visits a year. It is a training site for undergraduate, CCFP-EM, and FRCP residents, as well as for the Physician's Assistant program. The director of the ED at Seven Oaks is Dr. Ricardo Lobato de Faria.

HEALTH SCIENCES CENTRE: The Emergency Department at HSC is a tertiary, core-area ED that sees over 58,000 patients a year. It is the trauma centre for the province, a referral site for stroke patients, acute care surgical services, orthopedics, bleeding disorders and the regional centre for neurosurgery. It is one of two major teaching hospitals for medical students and residents. Dr. John Sokal is director of the ED at HSC.

CONCORDIA HOSPITAL: The Emergency Department at Concordia General Hospital receives over 34,000 patient visits a year. It is a training site for undergraduate, CCFP-EM, and FRCP residents, as well as for the Physician's Assistant program. The director of the ED at Concordia General Hospital is Dr. Pete Bosma.

SAINT BONIFACE HOSPITAL: The Emergency Department at St. Boniface Hospital sees approximately 42,000 patients a year. St. Boniface Hospital is the centre for the regional cardiac sciences program, a referral site for stroke patients, and for acute care surgical services. It is one of two major tertiary hospitals for medical student and resident training. Dr. Ron Steigerwald is director of the ED at St. Boniface Hospital.

MISERICORDIA HEALTH CENTRE: The Urgent Care Centre at MHC opened in 1998 as a made-in-Manitoba program, the first of its kind in Canada. Urgent Care specializes in handling non-life-threatening medical emergencies, providing assessment and treatment for urgent health concerns. It sees more than 42,000 patients per year and is the regional centre for ophthalmology, treating patients with urgent and emergency eye conditions. Dr. John Reda is Chief Medical Officer of Misericordia Health Centre.

GRAACE HOSPITAL: The Emergency Department at Grace General Hospital receives over 27,000 patient visits a year. The Grace Hospital is home to ACSS (Acute Care Surgical Service) which provides 24/7, emergency general surgery services. It is also a training site for medical students and residents. Drs. Graham Friesen and Rob Bohemier are co-directors of the ED at Grace General Hospital.

VICTORIA GENERAL HOSPITAL: The Emergency Department at VGH receives over 30,000 patient visits a year. It is a training site for undergraduate, CCFP-EM and FRCP residents. The director of the ED at VGH is Dr. Carey Kuo.
Many members of the Department of Emergency Medicine play key roles in pre-hospital emergency systems in Manitoba. With the diverse and remote populations we serve, emergency physicians participate in the pre-hospital management of patients via ground ambulance, fixed-wing (airplane), and helicopter. Residents in our programs are fortunate to train in the pre-hospital setting alongside their preceptors.

Dr. Rob Grierson is the Medical Director and Dr. Erin Weldon is the Associate Medical Director of the Winnipeg Fire Paramedic Service (WFPS). A recent important innovation of the WFPS is the development of a robust community paramedic program that serves the citizens of Winnipeg and bridges the gap between primary health care and the ED. Community paramedics are based at the Main Street Project (MSP), a 24 hour multi-service program that provides housing, a crisis shelter, transition services, a non medical detoxification unit as well as an intoxicated persons detention area, in addition to numerous other outreach services. Community paramedics provide assessment and medical care directly to this vulnerable population at the MSP, improving patient care and safely reducing ED visits. Additionally, community paramedics provide care as part of the Emergency Paramedics in the Community (EPIC) program. EPIC paramedics provide mobile medical and social solutions to patients who are frequent users of 911 and EDs in Winnipeg. The EPIC paramedics also attend to at-risk members of the community, including the elderly, the socially isolated, patients recently transitioned from hospital, as well as patients with critical lab and diagnostic follow up required after an ED visit. The program runs with medical oversight and has resulted in a significant reduction of ED visits with patients’ needs met through alternate non emergency services such as community clinics, community social programs and through collaborative care plans with homecare, social work and primary care.

These programs have led to national recognition of the WFPS for its innovative and progressive approach to helping the city’s most vulnerable citizens, including the 2014 Paramedic Chiefs of Canada (PCC) Award of Excellence for Innovative Technology related to the implementation of the HIV Point of Care Testing (POCT) program at MSP and the 2015 PCC Award of Excellence for a Client Centred Initiative related to the EPIC at-risk intervention program.

The pre-hospital STEMI program is well established and is an important collaboration between WFPS and the cardiac sciences program. Under this program, when paramedics respond to a 911 call in the field, they can send an ECG tracing of the patient’s heart by secure wireless network directly to a cardiologist or emergency physician on call. This physician will contact the paramedics immediately and determine the best course of treatment. Options include rapid transport to St. Boniface General Hospital for emergency percutaneous coronary intervention, injecting the clot-busting drug Tenecteplase (TNK), or transport to the closest hospital. This program allows patients with heart attacks to be treated as quickly as possible, translating into less damage to heart tissue and therefore better outcomes.

Drs. Grierson and Weldon have also supervised a variety of EMS research and quality improvement projects, including:

- Studies on the impact of community paramedicine, including the implementation of community paramedicine at MSP and the HIV POCT at MSP.
- Multiple studies on chest pain and the pre-hospital STEMI program.
- Research on the implementation of the Canadian Triage and Acuity Scale in EMS.
DR. ROB GRIERSON  Medical Director of WFPS
Dr. Grierson graduated from the University of Manitoba Faculty of Medicine and subsequently completed his specialty training in Emergency Medicine. In 2001, he joined the Winnipeg Fire Paramedic Service as Associate Medical Director and in late 2004 became the Medical Director. He works as an emergency physician at the Health Sciences Centre.

DR. ERIN WELDON  Associate Medical Director of WFPS
Dr. Weldon graduated from the University of Manitoba Faculty of Medicine and completed her FRCPC in Emergency Medicine in 2005. She then completed a self-directed fellowship in Emergency Medical Systems. She has been Associate Medical Director for WFPS since 2005. She is staff physician in the ED at the Health Sciences Centre and was named Educator of the Year at HSC in 2007, 2009, and 2011. She also serves as Research Director for the DEM.

DR. TONY HERD  Provincial Medical Director of EMS
Dr. Tony Herd is currently the Provincial Medical Director of EMS. He is also Chair of the EMS Review Task Force Office of the Medical Director implementation team. Dr. Herd has worked in acute care medicine for 27 years, including emergency, rural practice, intensive care and anesthesiology. He has a long history of EMS involvement, both ground and air. Dr. Herd also works in the Emergency Department at the Grace General Hospital.

LIFEFLIGHT AIR AMBULANCE
Many members of the Department of Emergency Medicine work as physicians for Manitoba's air ambulance transport. LifeFlight provides transport for critically ill or injured Manitobans from rural and remote areas of Manitoba to the care they need in Winnipeg.

SHOCK TRAUMA AIR RESCUE SOCIETY (STARS)
Many emergency physicians in the DEM also work for Shock Trauma Air Rescue Society (STARS). STARS provides rapid and specialized emergency medical care and air transport via helicopter for critically ill and injured patients. STARS also provides medical education to physicians and health care professionals in Manitoba, most notably at EMPAC (Emergency Medicine Prairie Annual Conference).
The Department of Emergency Medicine develops and delivers high-quality education for medical students, residents, physicians, and other health care professionals. We strive to inspire and engage our learners with the latest innovations in emergency medicine, such as bedside ultrasound, high-fidelity simulation, and web-based learning. Our goal is to improve the care of our patients by promoting academic leadership and teaching excellence in emergency medicine.
The Department of Emergency Medicine develops and delivers high quality Continuing Education and Professional Development activities for physicians and other health care providers throughout the province.

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT (CEPD)

The CEPD offers many regularly recurring academic activities for physicians and residents. Grand Rounds are offered every two weeks during the academic year. Presentations cover new developments in emergency medicine and are attended by tertiary care and community emergency physicians, as well as EM residents and other guests.

Journal Club provides an opportunity for DEM faculty and residents to discuss the latest primary research in emergency medicine. The event is scheduled eight times per year.

The DEM also offers a variety of courses for urban and rural physicians, postgraduate and IMG residents, and medical students. These courses include:

- Advanced Cardiac Life Support (ACLS) with 2015 guideline update
- Procedural Sedation
- Ultrasound-Guided Nerve Blocks to teach the use of seven different nerve blocks
- SimSHOCK, a simulation-based course that teaches participants to manage four common presentations of shock
- SimAIRWAY, a hands-on course on airway management
- Emergency Medicine Procedures Skills Course provides instruction and practice in common emergency medicine procedures such as thoracentesis, paracentesis and lumbar puncture
- Dental Blocks, a hands-on course that teaches physicians the practice of dental and facial regional anesthesia
EMERGENCY MEDICINE PRAIRIE ANNUAL CONFERENCE (EMPAC)

EMPAC was held May 1st-2nd, 2015 with pre-conference courses offered April 29th to 30th. This year’s conference included five new hands-on skill stations: Dental Blocks, Transvenous Pacers, Visual Spot Diagnosis, Labour and Delivery, and CT Brain. This hands-on learning was very well received. Conference attendees were also introduced to the STARS Mobile SimBus and six pre-conference courses were offered. Over 80 participants attended the conference and 46 attendees also registered for the pre-conference courses. Feedback from participants was extremely positive, with participants citing the high quality of the presentations, the clinical relevance of the content, and the hands-on skill sessions.

PRACTICE ELIGIBLE PHYSICIAN CERTIFICATION PROGRAM

The Practice Eligible Physician Certification Program (PEP) was established in 2010 to help physicians already in practice obtain certification by challenging the CCFP-EM exam. To date, the program has assisted ten Winnipeg, five Brandon, and one rural emergency physician in successfully completing the CCFP-EM exam. In addition to assisting with exam preparation, the program actively surveys and recruits potential candidates, recruits and trains practice oral examiners and liaises closely with the CCFP-EM residency program. Since its inception, the proportion of non-certified physicians has dropped from one third to one fourth of all the region’s emergency/urgent care physicians. The program continues to work toward the goal of achieving certification for all Winnipeg Emergency and Urgent Care Physicians.

DR. DAVID PINCHUK
Coordinator of the Practice Eligible Physician Certification Program

Dr. David Pinchuk is Coordinator of the Practice Eligible Physician Certification Program and Assistant Professor in the Department of Emergency Medicine. He has worked as an emergency physician for over 30 years. He is a mentor for the CCFP-EM program, and works as an emergency physician at Victoria General Hospital.

DR. REBECCA SCHINDLE  Director of CEPD

Rebecca Schindle graduated from medical school at the University of Ottawa, and completed the FRCP Emergency Medicine Program at the University of Manitoba. She has been Director of CEPD for the Department of Emergency Medicine since 2012. She also works as an emergency physician at Health Sciences Centre. Her academic interests include medical education and health literacy.
THE INTERNATIONAL MEDICAL GRADUATE EDUCATION PROGRAM

The International Medical Graduate (IMG) Educational Program is designed to train medical professionals who received their original medical training in another country. The DEM IMG program ensures these learners are ready, confident, and competent to meet the challenges of rural medicine in Manitoba. The program includes lectures on core emergency topics, hands-on skills workshops, and Advanced Cardiac Life Support courses. Trainees also receive significant exposure to emergency medicine with direct supervision and bed-side teaching delivered by experienced emergency physicians. The program continues to diversify teaching sites using all six Winnipeg based adult teaching hospitals and the rural site of Selkirk. Plans are underway to further expand teaching sites and to add a new simulation course to the IMG program for the spring of 2016.

DR. PAUL DOWHANIK
Coordinator of the International Medical Graduate Education Program

Dr. Dowhanik has practised Emergency Medicine in rural, remote and urban settings for more than twenty years and presently works and teaches at Seven Oaks Hospital. His present research interest is electronic medical record implementation.

www.ManitobaCPD.com

ManitobaCPD.com (Manitoba Continuing Professional Development) is an online peer-controlled framework that promotes sharing of ideas and collaboration. This platform plays an important role in accessibility to information in the DEM. It allows the DEM to host education rounds online, which increases active participation from local and distant sites. It also provides a searchable database of faculty and student research projects and publications.

Dr. Greg Van de Mosselaer’s work with the DEM to develop ManitobaCPD.com has led to a number of additional websites produced for the University of Manitoba.

TREKK.ca (TRanslating Emergency Knowledge for Kids) is a growing network of researchers, clinicians, national organizations and health consumers who share the same goal — to improve emergency care for children across Canada. EMPAC.net is the website and event management system for the Emergency Medicine Prairie Annual Conference. CHIMB.com is the online home of the Centre of Healthcare Innovation of Manitoba. ManitobaCPD.com continues to extend its reach into new projects and allows the DEM to remain at the forefront of knowledge translation in the online world.

DR. GREG VAN DE MOSSELAER
Emergency Physician and Developer of www.manitobacpd.com

Dr. Greg van de Mosselaer is the developer and lead programmer for ManitobaCPD.com, TREKK.ca, CHIMB.ca. He holds the position of Chief Technology Officer for the Centre for Health Care Innovation and is president of a consulting and programming firm called EM2data.com.
Emergency medicine presents many challenges to its practitioners. Emergency physicians must rapidly diagnose and treat critically-ill, undifferentiated patients while problem-solving unanticipated complications and setbacks. They must successfully perform life-saving procedures in a stressful, often chaotic environment, juggle multiple priorities, and communicate efficiently as team leaders.

High-fidelity simulation has been recognized as a powerful tool in training and preparing physicians to effectively manage the multiple challenges of high-risk medicine. Under the direction of Dr. Cheryl ffrench, the DEM Simulation Program has demonstrated tremendous growth since its inception five years ago.

Resident Simulation Programs
All residents in the department of emergency medicine participate in an extensive simulation program. The past year’s curriculum included 35 simulation sessions for residents.

Junior residents participate in sessions on foundational subjects such as airway management, procedural sedation, and trauma. The senior resident curriculum builds on foundational emergency medicine topics and also includes sessions on obstetrics, pediatrics and toxicology. The CCFP residents complete a dedicated curriculum, in addition to participating in junior simulation sessions.

The entire resident body also participates in the Team STEPPS program run by Dr. Jeff Klassen. Team STEPPS is an evidence-based teamwork system aimed at optimizing patient care by improving communication and teamwork skills among health care professionals.

During the summer months, the simulation program provides sessions on core ACLS and ATLS skills, as well as a Procedure Boot Camp, which allows residents to learn and practice core procedures such as thoracentesis, paracentesis, intraosseous insertion, chest tube, glidescope, bougie, and lumbar puncture.

Academic Collaborations
The Simulation Program in the DEM also produces a Joint Trauma Simulation Curriculum with the Department of General Surgery. Senior surgery and emergency medicine residents participate in five trauma based simulation sessions that require them to work together as a trauma team to manage an unstable patient. The simulation program is also working with the Department of Pediatrics to develop a joint pediatric sim curriculum which will begin in 2016.

The simulation program was also involved in the Winnipeg S.T.A.R.T. (Simulated Trauma and Resuscitation Team Training) course. This multi-disciplinary course included participants from nursing, respiratory therapy, emergency medicine, general surgery as well as pre-hospital care (STARS personnel). A simulation based one day course is also being developed for the International Medical Graduate program.

Continuing Medical Education (CME)
Several simulation based courses are offered as CME and have been extremely well received. At the Emergency Medicine Prairie Annual Conference (EMPAC), simulation based courses such as Emergency Medicine Procedures Course, SimAIRWAY, SimSHOCK and Procedural Sedation are offered. The program also offers a course for practicing physicians called SimART, which provides training in airway, resuscitation, trauma, and crisis resource management skills.

The simulation program is also dedicated to expanding the local knowledge and interest in high fidelity simulation. Dr. ffrench is active in recruiting and training emergency physicians and residents in simulation. The program offers a Simulation Elective for senior residents, which is growing in popularity. The program also runs simulation sessions for medical students via the Emergency Medicine Interest Group.

Overall, the Department of Emergency Medicine is extremely proud of the tremendous advances made by the DEM Simulation Program in improving the training we provide to medical students, residents, emergency physicians and other health care providers.

DR. CHERYL FFRENCH Director of Simulation
Dr. Cheryl ffrench is Director of the DEM Simulation Program and Associate Director of the FRCP Residency Program. She is a passionate proponent of high-fidelity simulation and under her leadership, the DEM Simulation Program has grown into one of the most extensive emergency medicine simulation programs in the country.
The use of ultrasound in the emergency department has expanded greatly in recent years. It is now recognized as a critical tool in rapidly diagnosing life-threatening conditions, increasing the safety of invasive procedures, and ultimately improving care for countless patients. Led by director Dr. Chau Pham, the DEM Section of Ultrasound has been at the forefront of this transformation in emergency medicine, offering an ever-expanding curriculum for residents and physicians in practice.

The ultrasound curriculum is divided into two tracks, a core and an advanced curriculum. Junior FRCP and CCFP-EM residents receive training in Physics & Knobology, FAST, cardiac, aorta, and first trimester obstetrical U/S in order to obtain Independent Practitioner (IP) status. The advanced curriculum delivered to senior residents includes new focused ED ultrasound applications in renal, gallbladder, DVT, advanced cardiac, lung, IVC and RUSH exams, as well as ultrasound guided procedures (ie. nerve blocks, orthopaedic procedures, etc).

Dr. Pham successfully obtained her CEUS Master Instructor status this past year from the Canadian Emergency Ultrasound Society (CEUS). Furthermore, the DEM is also proud of having several new ultrasound champions in our department. Drs. David Kirschner, Aaron Webb, Kyle Burkett, Teresa Wawrykow, David Lussier, Anne Sutherland, and David Easton have all successfully obtained full CEUS IP1 status.

The University of Manitoba’s DEM was also designated a CEUS training centre by the CEUS Executive in August 2015.

With the tremendous expansion of the ultrasound program, Dr. David Kirschner has recently accepted the position of Coordinator, Section of Ultrasound for the DEM. He is assisting in teaching ultrasound and helps coordinate Continuing Professional Development (CPD) ultrasound courses for physicians in practice. He is currently completing his advanced ultrasound certification.

This past year, the 50 Scans Independent Practitioner Course was offered for physicians in Brandon and Steinbach. The course was very well received and three more CPD courses are being organized by the DEM for Boundary Trails, EMPAC and a collaborative national course with Echo Guided Life Support (EGLS).

The DEM Section of Ultrasound has also expanded its research capabilities. An ongoing collaboration with the Department of Surgery led by Dr. Markus Ziesmann and supervised by Dr. Lawrence Gillman has yielded two papers on their research. Furthermore, Dr. Pham and Dr. Carmen Hrymak developed a teaching module for the RUSH protocol that is highly effective at increasing the accuracy of diagnosing the cause of undifferentiated shock. Their positive research data was presented at Resident Research Day in June 2015 and has been accepted for presentation at CAEP 2016, as well as Internal Medicine Research Day 2016. They hope to ultimately publish their findings.

Under the supervision of Dr. Pham, Dr. David Lussier is also collaborating with Dr. Paul Atkinson from St. John, NB, in a randomized control trial, SHoC-ED1 for Sonography in Hypotension and Cardiac Arrest in the Emergency Department. This multi-centre trial will help determine if point of care ultrasound in the ED enhances the outcomes of patients who present with undifferentiated hypotension. These studies demonstrate that ultrasound in emergency medicine is an active and promising new area of research.

With its ever-growing local expertise, the Section of Ultrasound anticipates offering advanced ultrasound electives for our residents, expanding CME courses for physicians and undergraduates, as well as continuing to contribute to the growing body of research in this exciting new field of modern medicine.
One of the great strengths of the University of Manitoba Department of Emergency Medicine is the tremendous quality of residents we attract and retain. Emergency Medicine postgraduate training spots are extremely competitive and so we are able to choose from the cream of the crop every year. We have a very talented and cohesive group of residents who are committed to high quality patient care, and to growing the academic specialty of Emergency Medicine.

Left to right: Dr. Johann Velthuysen, Dr. Catharina Gray, and Dr. Chris Beeston, Emergency Physicians and Preceptors for the CCFP-EM program at Brandon General Hospital

Dr. Elsa Velthuysen, Emergency Physician and Preceptor at Brandon General Hospital with Dr. Colin Yardley, CCFP-EM Resident
The FRCP-EM residency program at the University of Manitoba trains residents to become excellent clinicians, solid academics and leaders in Emergency Medicine. The program continues to be very competitive with over 100 applications annually for its four residency positions.

The program fosters a collegial and supportive relationship between residents, and between residents and faculty.

**Strengths of the Program include:**

- High patient acuity with large volumes and high rates of pathology
- Full weekly academic day
- Expanded Ultrasound Program led by Dr. Chau Pham
- Teaching in evidence-based medicine and research methods by Research Director Dr. Erin Weldon
- Strong Simulation Program under the direction of Dr. Cheryl ffrench
- Annual Resident Retreat
- Resident-faculty Journal Club
- ACLS, ATLS, PALS, AIME, Procedural Sedation courses
- Time, funding, and support for scholarly activity/conferences
- Strong ties with the pre-hospital care system, including the Winnipeg Fire Paramedic Service, the Provincial Air Ambulance (Life flight) and the rotary program STARS
- Toxicology rotation led by two toxicologists
- Formal mentorship program
- High Performance Physician Program, an innovative wellness program
- Attending physicians with subspecialty training in Critical Care, EMS, Ethics, Palliative Care, and Toxicology

One of the recent changes in the curriculum is the designation of six rotations dedicated to an area of special interest to reflect Specialty Training Requirements of the Royal College of Physicians and Surgeons. Areas of special interest that have been undertaken by the residents include: Masters of Medical Education, Pediatrics, Health Administration, Cardiology, Toxicology, Tropical Medicine, and Retrieval Medicine.

Another advance in the program is the development of the Trauma Team Leader Rotation, which provides residents a dedicated experience as a Trauma Team Leader at the Health Sciences Centre, the designated trauma centre for Manitoba.

Scholarly activity continues to expand with all residents required to produce a scholarly project which is either presented at a national or international conference (or equivalent caliber locally) or published in a peer reviewed journal.

Overall, the excellent learning environment has resulted in great success, with all of last year’s residents passing their certification exams. In 2015, accreditation of the residency program by the Royal College of Physicians and Surgeons of Canada was successfully completed.
LEADERSHIP OF THE ROYAL COLLEGE RESIDENCY PROGRAM

Dr. Wes Palatnick
Director of the Royal College Residency Program

Dr. Wes Palatnick is the Director of the Royal College Residency Program. He graduated from the University of Manitoba Medical School in 1979, attained his FRCPC in Emergency Medicine in 1985, his diplomate in Emergency Medicine from the American Board of Emergency Medicine in 1991, and Certification in Toxicology in 1991. Dr. Palatnick has built an international reputation in the area of toxicology, contributing numerous articles and book chapters to the literature and serving as a clinical toxicologist.

Dr. Palatnick is one of the pioneers of academic emergency medicine in Manitoba. He played an active role in the development of the section of Emergency Medicine (serving as its chair for over 10 years) and later the Department of Emergency Medicine at the University of Manitoba. He has played an active role nationally with the Royal College, serving as an examiner, member of the specialty committee and program directors committee. He was also a member of the Board of CAEP for a number of years. He practices Emergency Medicine in the Emergency Department at Health Sciences Centre and is a Consultant Toxicologist in the WRHA.

Dr. Travis Minish

Dr. Travis Minish, MD, FRCP(C) was FRCP-EM Assistant Program Director from 2007 to 2015. Dr. Minish has been a key contributor to the residency program, including an active role in resident education, Royal College accreditation surveys and curriculum development. Dr. Minish practices Emergency Medicine at Health Sciences Centre and is Chair of AEP, the physician group at HSC.

Dr. Cheryl ffrench

Dr. Cheryl ffrench MD, FRCP(C), has recently accepted the position of Associate Director, FRCP-EM Residency Program. Dr. ffrench has been involved with the DEM academic program at multiple levels including as Simulation Director since July 1, 2011. Dr. ffrench practices Emergency Medicine at Health Sciences Centre, where she enjoys inner-city medicine and working at a trauma centre. She is an award-winning teacher and innovator in postgraduate EM education.

Dr. Deborah Hill

Dr. Deborah Hill MDCM FRCP(C) has accepted the position of Assistant Director, FRCP-EM Residency Program. Dr. Hill has been involved with the DEM academic program for the past two years, presenting at DEM Grand Rounds, Pan Am Sport Medicine and Orthopedic Rounds, and EMPAC. After her FRCP-EM residency, she completed a fellowship in Primary Care Sport and Exercise Medicine in 2014. Dr. Hill practices emergency medicine at Health Sciences Centre and is a sport medicine physician at the Pan Am Clinic and transport physician for STARS. She is also one of the medical team physicians with the Royal Winnipeg Ballet.
ANNE FINLAYSON
Anne grew up in Winnipeg and received her Bachelor of Arts in Politics from the U of Winnipeg. She developed an interest in health care through part-time work at a personal care home and working with people with neuromuscular and developmental disabilities. She was drawn to emergency medicine because she values the welcoming, egalitarian culture and the fast-paced exposure to a multitude of fascinating stories and pathologies. She appreciates that in Manitoba in particular, there is a tremendous opportunity to advocate for disenfranchised populations. The EM program at U of M is made up of a wonderfully closely knit supportive group of people and she is happy to be a part of it. Outside of the world of work and academia, she loves to travel, read, keep active, and spend quality time with friends and family. She also has an interest in French and Spanish.

IAN SURDHAR
Ian joined our program this year from the beautiful province of Alberta, where he earned an MSc in neuroscience from the University of Alberta, followed by an MD at the University of Calgary. As a new Manitoban, Ian is spending his time getting acquainted with Winnipeg’s unique cultural offerings and can often be found around town trying out new restaurants and attending local concerts and festivals.

THOMAS WINTER
Thomas grew up in Winnipeg and is very excited about spending five more years here with our Emergency Medicine family. Through the early days of residency, he has realized that the Manitoba Emergency Medicine experience is second to none. Indeed, the program is renowned for providing diverse exposure to pathology and excellent training from well respected faculty. He is most impressed with the collegiality among the group of co-residents, and is thrilled about the incoming R1 group for next year. Outside of medicine, when he is not plotting his next adventure to a new destination in the world, he enjoys hockey and outdoor activities.

ALKARIM VELJI
Alkarim has had quite the journey before moving to Winnipeg. He was born and raised in Edmonton where he completed his undergraduate degree in Education at the U of A. Following that, he taught and traveled in Macau and Sweden for several years. His passion for travel took him through much of Europe and Asia. He returned to Edmonton for medical school before moving to Winnipeg to begin residency training in the FRCP-EM program.

ERIC FLYNN
Eric was born and raised in Winnipeg. He completed both his Undergraduate Degree and his Medical Degree at University of Manitoba. Outside of work, Eric enjoys being out on the golf course, going to a Jets game, or manning the grill at a backyard barbecue.

DAVID LUSSIER
David loves exploring new places and has travelled all over the world. He enjoys scuba diving, playing sports and watching the Jets play. Music is also one of his passions - he plays a few instruments and enjoys writing songs. He was attracted to emergency medicine for the fast pace, the huge variety in patient presentations and the team environment. Manitoba was an easy choice for residency - the resident group is close-knit and the staff are supportive and enthusiastic about teaching.
MELODY ONG
Like many of her co-residents in the program, Melody was born and raised in Winnipeg. She completed her undergrad degree at the University of Manitoba, and then headed out to the University of Ottawa in the nation’s capital for medical school. While rotating through clerkship, she fell in love with the crazy environment of the Emergency Department. She loved being the first to assess the undifferentiated patient, and how Emergency Physicians are the “Jack of all trades, and masters of resuscitation and acute care medicine.”
Outside of medicine, Melody is an avid soccer player and fan. She has traveled to numerous countries around the world, most recently India. She loves using her camera to capture her journeys and has become the un-official photographer of the Department of Emergency Medicine. Lastly, as her name expresses, Melody is deeply passionate about music.

ADRIANA SHAWARSKY
Adriana is a proud born and raised Winnipeger. She grew up spending most of her time enthralled in the arts; whether it was dancing (Ukrainian, ballet and tap), playing piano or in musical theatre groups. However, she also found herself drawn to the wonderful world of science and medicine. She spent multiple years working at the National Microbiology Laboratory conducting both monoclonal antibody and HIV research. This lead to her love for infectious diseases and travel. Having travelled to over 30 countries, she tries to spend her vacation time discovering new places and trying out new things. She chose Emergency Medicine for its diversity and quick pace, and is happy to work with a wonderful group of both residents and attendings.

ANDREA KOKOTILO
Andrea comes to us all the way from the Wild Rose Province. Born and raised in Edmonton, she completed her undergraduate and medical degrees at the University of Alberta. Prior to medical school, she took off on a wild six month adventure across the world. Since then she has visited over 30 countries and is itching for more. Her love of adrenaline, coupled with her love for travel, has led to a variety of fascinating stories from all over the world. It is fitting that her interests lie in disaster medicine and international health. She chose Winnipeg for residency for the top notch people and incredible patient pathology. She is an avid fisher, photographer, and painter.

VINCENT LIM
Vincent was born and raised in Winnipeg. He was a science nerd in university hanging out in a microbiology lab growing bacteria cultures before finding his fit in medical school. During his time in medical school, he was fascinated with the acuity and diversity that Emergency Medicine offered. After graduating, he refused to leave Winnipeg for residency and couldn’t be happier with the decision. What drew him to U of M’s Emergency Medicine program is how clinically strong the residents and staff are, which speaks to the value of being able to work in an environment that gives you the opportunity to deliver care to such a unique population with diverse and complex pathologies. In addition, the Emergency Medicine family here is second to none.

ROMAN NEPOMUCENO
At a young age Roman left his island lifestyle in the Philippines to move to Winnipeg, a city with great summers and even better winters. He’s a firm believer that every opportunity is merely another possibility yet to be realized. In his previous life, he dabbled in immunology and worked with level 4 viruses while maintaining a career as a certified fitness trainer. A serendipitous opportunity doing humanitarian work in Eastern Africa ignited his passion for helping disadvantaged and at-risk populations. This led him to a brief yet rewarding stint as a paramedic primarily serving Winnipeg’s at-risk population and where he found his niche in medicine. He subsequently graduated with his MD degree and has found his way to emergency medicine where he continues to look for more opportunities to serve the community that has taught him so much.

JOEY RINGAERT
Joey was born and raised in Winnipeg, Manitoba and completed his undergraduate training here. One of his main interests in life is sports. He played on the U of M golf team, played high school hockey, badminton, curling, ultimate frisbee and recently started to play squash. Emergency medicine was a natural choice for Joey as he enjoys the rush of being on the front line and problem-solving through every case. So far the U of M Emergency program has been everything he could have hoped it would be, and he can’t wait to see what the next five years have in store.
ANNE SUTHERLAND

Despite the fact that Anne hails from Winnipeg, she is no stranger to the outside world. She spent four years in Edmonton completing her Bachelor’s Degree in Genetics at the University of Alberta, then made her way to Kingston for a Master’s degree in Pharmacology and Toxicology at Queen’s University. Her wandering ways brought her back to the land of rivers and lakes for Medical School, and weekends of camping, paddling, and spending time at the cabin. She chose to stay in Manitoba for Residency for the patient population, excellent academic program, and amazing group of co-residents! Her interests lie in pre-hospital care, wilderness medicine, and toxicology. Current extracurriculars include Spanish lessons, attaining her scuba certification, and taking her puppy to obedience classes.

KYLE BURKETT

As a resident in the emergency medicine program Kyle is excited to learn the intricacies of this specialty. Specifically, he is interested in disaster care, emergency medicine in a global health context, and the psychology of high stress interactions. What drew Kyle to this specialty is the diversity of issues that an emergency physician faces, and trying to figure out how to become an expert at being pulled in multiple directions at once. When not in the emergency department, Kyle would most likely be found on the slopes at Big Sky, Montana or exploring new parts of the world.

ERIK HILDAHL

Erik is another Winnipeg lifer in the group. Growing up he had a passion for athletics but when he realized that becoming the badminton champion of the world was not in the cards, he turned to academics. Erik did his undergrad degree here at the University of Manitoba while playing Junior hockey. After completing medical school, he could not be more thrilled to join the amazing Emergency Medicine family here in Winnipeg!! His interest in emergency medicine began early in his medical school years and Erik is very grateful to the many residents and faculty who helped him pursue this dream. The hands on training, variety of interesting cases and pathology, and incredible academic days in the emergency medicine program are second to none.

HAROLD PETERS

Harold was born in Winnipeg, raised in Winnipeg, and completed his undergraduate and medical school training in Winnipeg. He loves this city and is very proud that this small corner of the world is home to a great EM program. A well-seasoned traveler, he loves to use vacation time to explore new parts of the world. Having conducted a fair amount of infectious disease research before medical school, he was surprised to have fallen in love with emergency medicine. This interest started in his first year of medical school and he couldn’t shake it. He also enjoys cooking, astronomy and all kinds of music.

HELEN YAWORSKI

Helen hails from a farming community in central Manitoba, which exists merely as a stop sign on Highway 10. After a circuitous route through nursing, marriage, and childrearing, she has returned to her “home” in the emergency department. She worked at the Health Sciences Centre emergency department for many years as a nurse and a nurse practitioner before heading back to medical school, completing her MD in 2012. She is excited to be part of the emergency medicine team, in a program that offers such support and diverse learning experiences.

NATHAN ASHMEAD

Nathan recently transferred from the Orthopedics postgraduate training program to the exciting world of Emergency Medicine. He is a B.C. boy turned Winnipegger who traded his snowboard for snowshoes when he moved here. He counts himself extremely lucky to be a part of this program and would like to thank all those who made it possible, including Drs. Palatnick, Minish, and Clark.
AARON GUINN

Aaron grew up in the wilds of suburban Winnipeg, and spent his youth playing street hockey, piano and trumpet, and watching science documentaries on PBS. He started undergrad with the intention of doing a degree in theoretical physics, but soon realized that he liked biology and physiology better. This led him into the faculty of medicine. He chose Manitoba for residency, as the pathology and clinical experiences here were among the best of anywhere in the country. That, and the residents and staff were the smartest, friendliest, and most human group he had encountered. When he's not in the emergency department directing a complex resuscitation, he enjoys paddling, playing piano, trying new restaurants, and reading everything he can get his hands on.

LISA MODDEMAN

Lisa grew up in the wonderful suburbs of Winnipeg. For her Undergraduate studies she headed to the University of Western Ontario. There she developed a penchant for a number of “hipster sports,” including ultimate frisbee, disk golf, and kite-boarding. She was reluctant to come back to the University of Manitoba for medical school, but has found many things to love about Winnipeg since returning. The music scene is fantastic, there are festivals going on all of the time, and there are more delicious restaurants than you can shake a stick at. Lisa’s other interests include traveling and fine wine. She is really happy to be here in Winnipeg for residency as the program provides great hands-on training, lots of simulation-based education, excellent ultrasound training, and pathology like no other.

KRISTJAN THOMPSON

Kristjan is a prairie boy through and through—a true Winnipeg lifer. From kindergarten all the way to his postgraduate medical training, he has yet to leave the land of perpetual winter and mosquitoes the size of small birds. As a young lab geek, Kristjan spent his summers in a medical microbiology lab and had the opportunity to co-author several publications in the field of infectious diseases. From those humble days sitting behind a microscope, he eventually found his niche in the emergency department. Chalk it up to a love of ‘all things medicine’, high-functioning obsessive-compulsive tendencies, ADD, and borderline mania—the ER was a perfect fit for him. His current academic interests include emergency medicine, microbial surveillance, antimicrobial resistance, medical education, and health-care administration. Kristjan is also an avid traveler, wine/food enthusiast, amateur theatre performer, and die-hard Winnipeg Jets fan.

AARON WEBB

Aaron was born, grew up, completed his undergraduate education and also his medical school in Winnipeg. He likes to leave town as often as possible, but every trip reminds him that this is where he wants to live. He was fortunate enough to spend his childhood summers living at the lake about an hour east of Winnipeg, which largely shaped who he is today. When he was old enough, Aaron started working on the local ambulance service and spent 5 years as a paramedic before deciding to go in to medicine. He’s had tunnel vision for the emergency medicine program since day one and is ecstatic to be part of the group. When he has some free time he can be found running, skiing, and camping.
The CCFP-EM program in Manitoba accepts four residents per year in Winnipeg. One of the most exciting innovations of the program in 2015 is its expansion to include two additional residents in Brandon. The program is administered through the DEM and Department of Family Medicine.

Core clinical training takes place at the two academic hospitals, Health Sciences Centre and St. Boniface General Hospital. Based on resident and staff input, the Winnipeg program has expanded to include community hospitals for clinical rotations at Seven Oaks and Victoria General Hospitals. The emergency and anesthesia rotations at these sites provide excellent opportunities for hands-on experience.

The academic component of the CCFP-EM program is robust and extensive, including:

- Weekly academic days with the FRCP residents
- Grand Rounds with the DEM community
- Extensive simulation training with Dr. Cheryl ffrench
- Formal ultrasound training to obtain Independent Practitioner Status with Dr. Chau Pham
- High-Performance Physician Program
- Numerous additional training opportunities, including PALS, ACLS, ATLS, AIME, Procedural Sedation, and ICU-based vascular access and pleural ultrasound courses.
- Monthly Tintinalli Rounds
- CCFP-EM Oral and Written Practice Exams

One of the strengths of the CCFP-EM program at the University of Manitoba is the collegial and cooperative relationship with the FRCP-EM faculty and residents. The CCFP-EM program also includes CCFP-EM specific activities in order to provide focused training in core areas of emergency medicine. The program has also enlisted the help of Dr. David Kirschner to provide ongoing monthly tutorials in ultrasound and pediatric emergency medicine.

A new mentorship program started in 2014 has also proven extremely successful. Experienced CCFP-EM emergency physicians are matched to residents in order to provide academic, professional, and personal guidance and support. CCFP-EM residency spots continue to be in very high demand with 136 applications being received for the 6 spots available this past year.

Dr. Al Buchel grew up in Manitoba and graduated from medical school at the U of M in 1994. He completed his CCFP at the University of British Columbia, receiving his CCFP-EM in 2000. After practicing medicine in Northern BC and Nunavut, he moved back to Manitoba in 2002. He is currently an emergency physician at St. Boniface General Hospital and Victoria General Hospital. He also works for LifeFlight, which transfers critically ill patients from remote communities to Winnipeg for medical care.

Al has been the CCFP-EM Program Director since 2011. During his tenure, he has introduced numerous innovations into the residency program, including an expansion of the residents’ academic activities, extensive simulation-based training, opportunities for pre-hospital exposure, and EM-tailored community clinical practice. One of the most popular aspects of the EM program is Al’s Tintinalli Rounds, in which the EM residents meet once a month in a casual environment to discuss their reading and prepare for the EM exam.

Al loves working with learners, and has been awarded the St. Boniface Hospital emergency department Educator of the Year award four times. He is a lifelong mentor to both CCFP-EM and FRCP residents and new emergency physicians.
The Brandon Satellite Program of the College of Medicine, Faculty of Health Sciences, was started in 2012. The University of Manitoba began by offering a two-year Family Medicine residency program in Brandon. Led by the college’s associate dean, Dr. Charles Penner, the Brandon Satellite Program is now in its third year of operation.

In 2015, the program expanded to include two CCFP-EM spots and one anesthesia residency spot at its campus. The CCFP-EM program is under the overall direction of Dr. Al Buchel, with Dr. Stacey Kitz acting as site lead in Brandon. The CCFP-EM residents spend approximately half of their time in Brandon and half in Winnipeg. Feedback from the first residents of this program has been very positive, and the residents have been received enthusiastically by faculty in Brandon.

Dr. Charles Penner is Associate Dean and Head of the Brandon Satellite Program for the College of Medicine at the University of Manitoba. The Brandon Satellite Program includes Family Medicine, Emergency Medicine, and Anaesthesia, with future expansion planned for 2017. Beyond his role as Head of the Brandon Satellite Program, Dr. Penner works as a respirologist for the Brandon Regional Health Authority.

Dr. Kitz grew up in Brandon and graduated from medical school at the University of Manitoba. She attended Queen’s University for her CCFP and CCFP-EM. She returned home to Brandon in 2008, and has been working in the Emergency Department of Brandon General Hospital since. She is passionate about medical education and looks forward to training and mentoring residents in emergency medicine.

Jocelyn is Administrative Coordinator for the Brandon Satellite Program. Her previous experience includes a variety of administrative roles for the Brandon Regional Health Centre, most recently physician recruitment, credentialing and continuing education. Jocelyn is very excited about the new programming in Brandon and welcomes inquiries. She will gladly arrange a site visit to welcome you to the community and showcase what the program and the city have to offer.
CCFP-EM RESIDENTS

BRANDON

STEPHEN SMITH

Stephen was born and raised in Toronto. His education took him to London (both in Ontario and UK), Dublin, Winnipeg, and now Brandon. He completed family medicine residency in Winnipeg and was based out of the Family Medical Centre at St. Boniface Hospital. He considers himself a pseudo-Winnipegger because he has lots of family in the city and spent lots of time in Manitoba growing up. He feels lucky to continue training here as the medical community is very collegial, the teaching is great and there is a wide variety of pathology to learn from. He has enjoyed experiencing Winnipeg’s culinary scene and is excited to see what culinary treats he’ll discover in Brandon.

COLIN YARDLEY

Colin was born and raised in Kitchener, Ontario and has done all of his medical training at McMaster’s satellite campus in Kitchener. Before medical school he completed a degree in Chemistry from Wilfrid Laurier University. Outside of Medicine, he loves to keep active, spending time with his wife Sarah and dog Rex. He is excited for the change of scenery and pace that the EM year will bring and looks forward to spending time in Brandon and Winnipeg.

WINNIPEG

ROBERT GOURLAY

Robert is proud to have called Manitoba home for most of his life. He grew up north of Winnipeg, fishing for catfish on the Red River near Lockport. He moved in to Winnipeg for University, receiving his undergraduate degree from the University of Winnipeg, before completing Medical School at the University of Manitoba. He continued with the U of M for his postgraduate training in Family Medicine, which took him out to the Parkland region, living and working in Dauphin MB for a year. When he’s not working or studying, he enjoys boxing, video games, cruising on his motorcycle, and drinking coffee. He’s very excited to be part of the CCFP-EM program and looks forward to working hard, learning lots, and having a great year.

RACHEL KROEKER

Rachel grew up just outside of Dryden, Northwestern Ontario. She moved off to London ON to complete her BSc Chemistry. Between her undergraduate degree and medical school, she spent 3 years working in disaster relief internationally. She completed medical school at U of M, and did family medicine residency training in Victoria, BC. Rachel is excited to be back in Winnipeg for the CCFP-EM year with such a great group of residents and preceptors. In her spare time, she enjoys checking out the abundance of great live music in this city, and getting out to the lake as much as possible.

MICHAEL LAI

Michael was born and raised in Calgary, home of the legendary Calgary Flames. His favourite player growing up was Jarome Iginla. He completed his undergrad studies in Calgary, and completed medical school and residency training in Edmonton. Outside of medicine, he is an avid hockey player and enjoys playing every chance he gets. He also likes playing soccer, volleyball and golf. Piano has always been one of his hobbies and he likes learning new songs in his free time.

SKYE STARKEY

Skye completed her medical school training at the University of Manitoba and Family Medicine residency at the University of Calgary. After finishing her residency training program, she worked in Alberta, the Yukon and Nunavut practicing urban and rural medicine. She is very happy to be back in Winnipeg and looking forward to an exciting year in the CCFP-EM program.
The Department of Emergency Medicine plays a critical role in teaching and training medical students throughout their undergraduate education. Many members of the Department of Emergency Medicine play an integral role as preceptors of clinical skills and clinical reasoning courses for first and second year medical students. The DEM also offers essential training in emergency medicine during the Transition to Clerkship period. At the onset of clerkship, new residents are provided with simulation style teaching of ACLS, approach to resuscitation, and hands-on procedures.

The emergency medicine undergraduate experience in third and fourth year remains one of the highest rated clinical rotations by U of M students. Students frequently praise the high-quality one-on-one teaching, engaged and knowledgeable clinicians, experience with a variety of procedures, and ability to see and care for undifferentiated and critically ill patients.

Students also love the formal teaching they receive in emergency medicine clerkship, including small group lectures, simulation based seminars in trauma and critical care, introduction to ultrasound, and ride along opportunities with paramedics.

**DR. MONA HEGDEKAR**  
Director of Undergraduate Medical Education

Dr. Mona Hegdekar MD, CCFP-EM, is Assistant Professor in the DEM and works as an emergency physician at St. Boniface Hospital. During her tenure as director, Dr. Hegdekar has made valuable contributions to the undergraduate program, including medical school accreditation and new curriculum development. Under her leadership, emergency rotations have continued to receive extremely positive reviews and the DEM has greatly expanded its involvement in undergraduate education. The DEM wishes to thank Dr. Hegdekar for her tremendous contribution to medical education.

**DR. TERESA WAWRYKOW**  
Director of Undergraduate Medical Education

Dr. Teresa Wawrykow, MD, CCFP-EM, has taken on the position of Undergraduate Program Director with the Department of Emergency Medicine as of December 1st, 2015. She has been involved with the DEM as a lecturer for the past seven years, with special interests in ultrasound and simulation. In addition to her DEM academic activities, Dr. Wawrykow is currently the CPD Regional Educator (MB/SK) for the College of Family Physicians of Canada. She practices Emergency Medicine at Concordia Hospital and is committed to ensuring that undergraduate education is inclusive of all emergency departments in the region.

**DR. IRA RIPSTEIN**  
Associate Dean for Undergraduate Medical Education

Being named the Associate Dean of Undergraduate Medical Education for the College of Medicine immediately after completing a term as Associate Dean of Postgraduate Education speaks to the tremendous administrative talents and leadership abilities of Dr. Ira Ripstein. Dr. Ripstein led the UGME program through a very challenging accreditation year, in which the school obtained full accreditation for their MD program. Between his many meetings at the medical school, he works emergency shifts at the St. Boniface Hospital.
HIGH PERFORMANCE PHYSICIAN PROGRAM

Escalating demands, intense performance pressures, and overwhelming expectations are cited by many physicians and residents as key sources of stress that can impede performance and lead to a diminished sense of personal well-being. The High Performance Physician (HPP) Program arose out of the recognition that EM residents must meet very exacting standards in a high pressure environment. The HPP curriculum was developed to help residents maintain perspective, develop appropriate coping mechanisms, and successfully navigate their personal and interpersonal challenges. While many residency programs have recognized these needs, we are not aware of any other EM residency program in Canada that has addressed them through a formal curriculum.

The HPP curriculum was integrated into Emergency Medicine education and delivered for the first time to EM residents in 2009 by Drs. Cal Botterill, Jason Brooks, and Aman Hussain. The HPP program is designed to equip medical professionals with the tools and strategies needed to sustain a high level of performance at work, translate preparation into success, manage stress and develop strategies for dealing with setbacks.

Given the tremendously positive feedback the program has received from EM residents, the HPP team has now offered its courses to various departments, including General Surgery, ENT, ICU, and Obstetrics and Gynaecology. The HPP program will be delivered to over 100 Family Medicine residents this coming year.

The HPP team and Dr. Chau Pham, coordinator of the HPP Program, also conducted the first ever qualitative and quantitative research project to test the effectiveness of HPP for surgical residents. The study objective is to test stress level and burnout perception before and after HPP delivery, and to test the effectiveness of the program on clinical performance using a high stress simulation scenario. This project received two grants from the University of Manitoba DEM Research Education and Innovation Fund, as well as the Gupta Faculty Kinesiology Seed Fund from the University of Winnipeg.

The HPP team has also expanded its reach by presenting at the Canadian Conference on Physician Health in October 2015, as well as at the WEDOC conference in April 2016 and was accepted for poster submission at CAEP 2016.

BREAKING BAD NEWS

As director of Undergraduate Medical Education, Dr. Mona Hegdekar recognized that delivering bad news—such as the unexpected death of a family member or a life-limiting diagnosis like cancer—is a critical skill that many students feel ill-equipped and inadequately trained to manage. In response to this need, Dr. Hegdekar, along with Dr. Maxine Holmqvist, Department of Clinical Health Psychology, designed a full day workshop on delivering bad news for fourth year medical students. The workshop includes an expert panel discussion on end-of-life care, small group training with simulated patients, and a debrief with experienced preceptors. The course has been very well received by students and provides them with early training in an area of medicine even experienced physicians find challenging. Teaching future doctors how to deliver bad news in a direct and compassionate manner is critical to improving the care and support they will give to patients and their families.

Drs. Hegdekar and Holmqvist are in the process of publishing the findings of their work and will continue to provide training in this essential communication skill to medical students.
High-Impact Scholarship

We embrace our mandate to contribute to the advancement of the field of Emergency Medicine. Departmental status has brought a renewed commitment and an expanding capacity to obtain grant funding, carry out original research, participate in national and international research projects, mentor young researchers, publish in prestigious journals, and impact our community.
HIGH-IMPACT RESEARCH

The DEM is committed to expanding knowledge in emergency medicine through research and scholarly activities. Our faculty and residents have recently presented and published in diverse areas of research with particular strengths in:

- EMS and Pre-Hospital Care
- Point of Care Ultrasound
- Violence Prevention Strategies
- Toxicology
- Emergency Department Analytics and Information Systems
- Medical Education
- Medical Ethics
- Hypothermia
- Pediatric Emergency Medicine

Our research program supports and expands the capacity of our faculty and residents to obtain grant funding, participate in research collaborations, and mentor young researchers. The ultimate goal is to carry out original research that will improve knowledge in emergency medicine and lead to better care for our patients.

DR. MURDOCH LEEIES

The Next Generation in Research Innovation

Dr. Murdoch Leeies has rapidly distinguished himself as a rising talent in the field of emergency medicine and critical care research. He was recently co-awarded the 2015 R. Samuel McLaughlin/MMSF Research and Education Fellowship Award in Medicine. His research focus is the evaluation of resuscitative measures and other medical therapies for critically ill patients.

Murdoch completed a Bachelor of Science in Psychology at the University of Manitoba in 2006, a Medical Doctorate in 2010, and recently graduated from the FRCP Emergency Medicine Program at the University of Manitoba. During his training, he participated in the design and execution of clinical research as a primary investigator, presented at national and international scientific assemblies, and published his research in peer-reviewed medical journals.

Dr. Leeies pursued further training as a clinician investigator, graduating from the inaugural Global Clinical Scholars Research Training Program through Harvard Medical School. The program delivered training to emerging clinician investigators with mentorship from leading biostatisticians, clinician scientists, journal editors and educators. Dr. Leeies states the unique opportunity for international collaboration deeply imprinted on him the potential for health action through global networking and teamwork.

Murdoch is currently pursuing sub-specialty training in Critical Care Medicine at the University of Manitoba where he is dual-enrolled as a clinician scientist trainee in the Royal College Critical Care Medicine clinical fellowship as well as in a Master of Science in Community Health Sciences.

Dr. Leeies was also recently co-awarded the 2015 R. Samuel McLaughlin/MMSF Research and Education Fellowship Award in Medicine. This award is provided with the objective of enhancing the scholarship of the Faculty of Medicine through the training of future clinical faculty members in the areas of research and medical education.

Dr. Leeies is developing a structured research program evaluating resuscitative and adjunctive therapies in critically ill patients. His plan is to contribute to increased productivity and research capacity in the Department of Emergency Medicine and the Section of Critical Care through local, national and international collaboration.
Walk into the Emergency Department of Health Sciences Centre (HSC) in Winnipeg on most evenings, and chances are you will find a young person being treated for injuries due to violence.

Indeed, last year alone more than 1,000 young people received treatment for these types of injuries. Most of these young people come from Winnipeg's poorest communities, according to Dr. Carolyn Snider, an emergency physician at HSC.

And the sad thing, says Snider, is that many of them will be back again and again. “We know in Winnipeg that approximately 20 per cent of youth who are injured by violence will be back in our emergency department with another injury due to violence within a year,” she says. It’s a situation Dr. Snider is trying to change.

Dr. Snider, an associate professor in the Department of Emergency Medicine at the U of M, has been carrying out research into the risks for youth affected by violence with a view to developing new interventions.

One of her current research projects is called WrapAround Care for Youth Injured by Violence: A Pilot Randomized Control Trial. This large trial looks at the effectiveness of the Emergency Department Violence Intervention Program (ED-VIP).

ED-VIP is a program developed to help youth try to break the cycle of violence. Under the initiative, injured youth treated in the Emergency Department at HSC are met by a support worker who has experience in their community or with violence themselves. A social worker will also help them access the resources they need to address the factors that put them at risk for violence.

The program is the first of its kind in Canada and is based on the belief that recurring injuries from violence have underlying causes, just like other chronic/recurrent diseases. Dr. Snider believes that by getting at the root causes of violence, you can help reduce the risk of subsequent injuries.
The project offers one example of how research programs at the College of Medicine are being used to help change the way health care is delivered. If it is successful, it could lay the groundwork for a new national standard of care for young people who suffer injuries from violence.

Over the past few years, Dr. Snider has received a number of large grants to continue her ground-breaking work in this area, including:

- A Canadian Institute of Health Research Grant for $1,000,000
- Research Manitoba Establishment Grant for $100,000
- Manitoba Institute of Child Health (MICH) Grant for $40,000
- Youth Justice Fund, Department of Justice of Manitoba for $20,000

Another of Dr. Snider’s projects, “A Multilevel Analysis of Risk and Protective Factors for Youth Homicide and Severe Intentional Injury in Winnipeg,” uses administrative data from the Manitoba Centre for Health Policy to determine the impact of individual and neighbourhood level risks and protective factors. Funded by the Manitoba Medical Services Foundation and The Winnipeg Foundation, the goal of this study is to identify key risk and protective factors in order to inform future interventions and policy changes that will improve the lives of at-risk youth.

Dr. Snider’s research is already being met with early success and she hopes initial findings will be available in 2016. A video of the ED-VIP has been released to raise awareness of the program https://www.youtube.com/watch?v=uxmns_Y-GUc.

The ED-VIP has become a member of the US based National Network of Hospital Based Violence Intervention Programs and Dr. Snider is part of the steering committee.

The ED-VIP team has also been involved in a number of community events and inspired cross-disciplinary work in the field of youth violence prevention. The Department of Occupational Therapy hosted a Breaking the Cycle of Violence event, at which Dr. Snider presented. Heather Woodward, one of the social workers at the ED-VIP, has recently presented at a large conference on how the ED-VIP uses the indigenous-based Circle of Courage framework.

Dr. Snider has also extended the reach of her research by presenting locally, nationally, and internationally, including several presentations at the Canadian Association of Emergency Physicians Conference, the Society of Academic Emergency Medicine in San Diego, the Trauma Association of Canada, the National Network of Hospital Based Violence Intervention Programs, and the Society for the Advancement of Violence and Injury Research.

In recognition of her tremendous contributions in the fields of research, emergency medicine, and education, Dr. Snider has recently been the recipient of:

- The Alan Drummond Advocacy Award from the Canadian Association of Emergency Physicians
- The Gerry McDole Professorship Award in Improved Healthcare Delivery to Rural, Remote and Underserved Populations of Manitoba

Beyond her clinical, educational, and research activities, Dr. Snider mentors medical students, graduate students, and residents in research. Recently, she has broadened her focus globally. She has participated in the World Health Organization Global Campaign for Violence Prevention meeting in Geneva in 2015 and is working with the WHO to produce a report on the role of emergency medical services in violence prevention.
DR. ERIN WELDON  Director of Research

As director of research for the DEM, Dr. Weldon has spearheaded efforts to enhance research capacity, improve teaching of evidence-based medicine, and has mentored numerous residents and students. She has numerous recent projects and publications to her credit, including publications in CJEM, Canadian Journal of Cardiology, and Emergency Medicine Clinics of North America. She is also active in research and oversight with the provincial EMS system.

DR. WES PALATNICK  Toxicology

Dr. Palatnick has built an international reputation in the area of toxicology – contributing numerous articles and book chapters to the literature, and serving as a clinical toxicologist and mentor to medical students and residents. Dr. Palatnick was promoted to professor in 2005 due to this work, as well as his significant administrative contributions as the former head of the HSC Emergency Department, and former Section Head of Emergency Medicine. He currently directs the Royal College residency program.

DR. LYNNE WARDA  Pediatric Emergency Medicine

Dr. Lynne Warda is a pediatric emergency physician with a PhD in Community Health Sciences, who holds a cross-appointment with the DEM. Dr. Warda is a national expert and leader in the areas of childhood injury, trauma, and prevention. She is medical director of IMPACT - the injury prevention program of the WRHA. She is working to ensure her research translates into better outcomes for our children.

DR. GORDON GIESBRECHT  International Expert in Hypothermia

Dr. Giesbrecht is professor in the Department of Kinesiology and Recreation Studies and holds a cross-appointment with the DEM. He is an internationally recognized expert in hypothermia. He operates the Laboratory for Exercise and Environmental Medicine where he studies human responses to exercise/work in extreme environments. He has conducted hundreds of cold water immersion studies that have provided valuable information about cold stress physiology and pre-hospital care for human hypothermia. Other research interests include human physical and mental performance in other stresses such as altitude (hypoxia) and diving (hypobaria).

TREVOR STROME  Using informatics to improve efficiency and health care in the ED

Trevor was the informatics and process improvement lead for the Winnipeg Regional Health Authority until this year, with responsibility for developing and implementing innovative informatics tools to improve quality of care and patient flow.

He has recently taken a position with the WRHA Decision Support Department as Director of Analytics and Business Intelligence, but remains an assistant professor in the DEM and continues to collaborate with us on many research projects.

Trevor uses electronic data from the various clinical sites of the DEM to help us understand current patterns in emergency department flow. He participates in research projects related to health care analytics, informatics and quality improvement in emergency medicine. This has led to valuable research into topics such as the causes of bottlenecks in ED flow and examining the effectiveness of fast-track strategies in reducing wait times.

Trevor and his team have won numerous awards and published a number of articles related to ED data utilization. He has co-authored three book chapters and numerous articles on health care topics and is the author of the book Healthcare Analytics for Quality and Performance Improvement.
**DR. TERRY KLASSEN**  
*Pediatric Emergency Medicine*

Dr. Terry Klassen is a pediatric emergency physician with a Master’s in Clinical Epidemiology. He is CEO and Scientific Director at Children’s Hospital Research Institute of Manitoba, Head of the Department of Pediatrics, Medical Director for the Child Health Programme with the Winnipeg Regional Health Authority and Academic Director of the George and Fay Yee Centre for Healthcare Innovation. Dr. Klassen has obtained millions of dollars in grant-funding over the years and has published 244 peer-reviewed articles.

In recognition of his lifetime contributions, he was elected into the Institute of Medicine in 2010 in the foreign associate category. He is also a Fellow in the Canadian Academy of Health Sciences. Dr. Klassen’s research has had a large impact on the practice of pediatric emergency medicine, which was recognized when he received a 2011 Canadian Institutes of Health Research - Canadian Medical Association Journal Top Achievements in Health Research Award. In 2011, he was also awarded the Networks for Centres of Excellence (NCE) grant, entitled TRanslating Emergency Knowledge for Kids (TREKK).

Recently, he led a global effort to bring together five research networks in pediatric emergency medicine in a collaborative initiative under the umbrella of Pediatric Emergency Research Networks (PERN). He was honoured by CAEP in 2015 with the Dr. Marilyn Li Pediatric Emergency Medicine Leadership Award.

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**RESIDENT RESEARCH DAY**

Resident Research Day is an annual celebration of the best scholarship and educational innovations of our residents. Presentations are uniformly excellent with the following research projects recognized for distinction.

**Resident Research Day 2014**

- **Best Project Concept:** Dr. Murdoch Leeies - Ketamine vs. Etomidate for RSI in Severe TBI
- **Best Ongoing Research:** Dr. Kristjan Thompson - Antimicrobial Resistance in ERs Across Canada: Results of the CANWARD Study 2007-2013
- **Best Completed Research Project:** Dr. Katie Sullivan - Intoxicated Adolescents in the Emergency Department

**Resident Research Day 2015**

- **Best Overall Research Project:** Dr. Murdoch Leeies - Pace: Pre-hospital Application of CTAS by EMS
- **Best Research Proposal:** Dr. Kyle Burkett - Using Simulation in Medical Education: A Study Proposal
- **Honorable Mention:** Dr. Helen Yaworski and Mr. Phil Hutlet - Community Paramedic Point-of-Care HIV Testing: The First Year
Funding Obtained

2013-2016 - Snider C (Principal Investigator) “The Development, Implementation and Evaluation of Interventions for Youth Affected by Violence”
Manitoba Health Research Council Establishment Grant - $100,000 awarded

2013-2015 - Snider C (Principal Investigator), Klassen TP (Co-Investigator) “Wrap Around Care for Youth Injured by Violence: A Pilot Randomized Control”
Canadian Institutes of Health Research Operating Grant - $887,929 awarded

2013-2014 - Snider C (Principal Investigator) “A Multilevel Analysis of Risk and Protective Factors for Youth Homicide and Severe Intentional Injury in Winnipeg”
Manitoba Medical Services Foundation - $20,000 awarded

2013-2014 - Snider C (Principal Investigator) “Wrap Around Care for Youth Injured by Violence”
Manitoba Institute of Child Health - $40,000 awarded

Department of Justice - Youth Justice Fund – Guns, Gangs and Drugs Component - $20,357 awarded

2013 - Snider C (Principal Investigator), Partnerships in HIV AIDS Disease Management (PIHVOT) Project Shelter - $99,960 awarded

Manitoba Institute of Child Health $40,000 awarded

Pauls M (Principal Investigator) “Ethics and Professionalism in Emergency Medicine – a national internet-based resource for residency programs and continuing professional development”
Department of Emergency Medicine Research, Education and Innovation Fund - $10,000 awarded

Peng Q, Weldon E, Strome T (Principal Investigators) “Simulation Modeling for Emergency Department Flow”
Department of Emergency Medicine Research, Education and Innovation Fund - $25,000 awarded

FACULTY WITH CROSS APPOINTMENTS TO THE DEM

Peer Reviewed Publications


Plint AC, Grenon R, Klassen TP, Johnson DW. Bronchodilator and steroid use for the management of bronchiolitis in Canadian pediatric emergency departments. CJEM. 2014 Feb 1;16(0):1-8


Funding Obtained


2011-16 – G. Giesbrecht. Cold-induced decrement in voluntary and involuntary muscle activity, and influence of head on thermoregulation and heat transfer. NSERC Discovery Grant $135,000
**RESIDENT SCHOLARLY ACTIVITY**

Dr. Murdoch Leeies - Pre-hospital Application of the Canadian Triage and Acuity Scale (CTAS) by Emergency Medical Service (EMS): A Prospective Cohort Study - at CAEP 2015 in Edmonton

Dr. Harold Peters - Severe Accidental Hypothermia Treated with Extracorporeal Membrane Oxygenation in an Urban Canadian Setting - at CAEP 2015 in Edmonton

Dr. Kristjan Thompson - Pathogens and Their Antimicrobial Resistance Patterns in Emergency Departments (EDs) across Canada: CANWARD 2007-2014 - at Interscience Conference of Antimicrobial Agents and Chemotherapy (ICAAC) in September 2015 in San Diego, CA.

Dr. Aaron Guinn - Recurrent Inhalation Methanol Toxicity during Pregnancy - at the North American Congress of Clinical Toxicology (NACCT) in October 2015 in San Francisco, CA.

Dr. Katie Toews - Baclofen Overdose: Case Series with Serum Concentration - at the North American Congress of Clinical Toxicology (NACCT) in October 2014 in New Orleans.

Dr. Tom Jelic - Diagnosis of Chest Pain by Metabolic Fingerprinting of Serum - at CAEP 2014 in Ottawa

Dr. Katie Sullivan - Intoxicated Adolescents in the Emergency Department - at CAEP 2014 in Ottawa

Dr. Murdoch Leeies - Impact of a Novel Community-Based Paramedic Program on the Care of Intoxicated Persons - at WEDOC in May 2014 in Edmonton

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**Resident Research Day**

May 27, 2014
Best Completed Research Project
Dr. Katie Sullivan
Intoxicated Adolescents in the Emergency Department

Best Project Concept
Dr. Murdoch Leeies
Ketamine vs. Etomidate for RSI in Severe TBI

Best Ongoing Research
Dr. Kristjan Thompson
Antimicrobial Resistance in ERs Across Canada: Results of the CANWARD Study 2007-2013

June 16, 2015:
Best Overall Research Project -
Dr. Murdoch Leeies
PACE: Pre-hospital Application of CTAS by EMS

Best Research Proposal -
Dr. Kyle Burkett
Using Simulation in Medical Education: A Study Proposal

Honorable Mention -
Dr. Helen Yaworski and Mr. Phil Hutlet
Community Paramedic Point-of-Care HIV Testing: The First Year

**Funding**

The 2015 R. Samuel McLaughlin/MMSF Research and Education Fellowship Award in Medicine Co-Winners Dr. Murdoch Leeies and Dr. Ilan Schwartz ($35,000 to each awardee)
Our Team

Our administrative staff support the DEM in a wide variety of ways and ensure the continued success of our programs.

ANN MARIE ALDIGHIERI Education Program Administrator
Ann Marie started at the University in a term position assisting with the undergraduate accreditation process for the Faculty of Medicine. She joined the Department in 2011 assisting with reconciliation of departmental accounts and in documentation for Relative Value Guide stipends. In her current role, she supports the CCFP-EM and FRCP-EM programs. Her main duties include residency scheduling and support, as well as administrative support to the FRCP director, associate director and assistant director, the CCFP-EM director, the CCFP-EM practice eligible physician program coordinator, and the programs’ chiefs and related committees.

JOANNA CROWTHER Program Assistant for UGME
Joanna joined the University in 2004 as our first administrative support for the Section of Emergency Medicine with the Department of Emergency Medicine. In her current role, she provides administrative support to the Director of Undergraduate Education within the Department of Emergency Medicine. Joanna ensures high quality emergency medicine clerkship rotations, internal and visiting electives, selectives, as well as early exposures for first and second year medical students. She takes pride in working with our medical students to provide them with the best experience possible in emergency medicine.

DARLENE SCIBAK Executive Assistant
Darlene has been with the University since 2005. In July 2007, she accepted the position of Assistant to the Head for the Section of Emergency Medicine, Family Medicine and is presently the Executive Assistant with the Department of Emergency Medicine. Darlene provides administrative support to the Department Head, the Promotions Review and Mentoring Committee Chair, the IMG Coordinator, and several department committees. She plays a key role in promotions/tenure and academic career advancement for the department. Darlene is presently a member of the Academy of Administrators in Academic Emergency Medicine (SAEM-AAAEM).

TRISHA BEDARD
Program Assistant for Continuing Education and Professional Development
Trisha started with the University of Manitoba in 2012 and joined the Department of Emergency Medicine in April 2013. Trisha provides ongoing support to the Director and Assistant Directors of Continuing Education and Professional Development (CEPD-EM). She organizes and coordinates all aspects of CEPD offerings for the department including Grand Rounds, Journal Club, EM Update and several other courses. She has been working in various educational institutes for over 10 years and is proud to be a part of the Department of Emergency Medicine, working with our exceptional physicians and scholars here in Manitoba.

MICHELLE OSHANYK Business Manager
Michelle joined the University in March 2007 as part of the Financial Services team until 2009 when she accepted a position with the Neil John Maclean Health Sciences Library. In 2012 she became the Business Manager for the Department of Emergency Medicine. Michelle is responsible for the overall business operations of the department including finance, human resources, administration and equipment. Michelle is a member of the Association of Canadian Clinical Academic Department Administrators (ACCADA) and one of the management representatives on the Bannatyne Local Area Safety and Health Committee (BLASH).

VANESSA PERINOT Research Assistant
Building research infrastructure requires support and expertise, Vanessa previously worked in the Office of Research Services. Her current role with the DEM is to interact with faculty, the University, WRHA program, support staff, funding agencies, regulatory authorities and other parties to enhance our research productivity.