Excellent Clinicians
Engaged Educators
High-impact Scholarship
A Dynamic Team
DEPARTMENT OF EMERGENCY MEDICINE
BIENNIAL REPORT 2012-2013

4 Report from the Department Head

6 History of the Department of Emergency Medicine

8 OUR ACHIEVEMENTS
Profiling outstanding members of the Department of Emergency Medicine

14 CLINICAL EXCELLENCE
Patient care provided by the Department of Emergency Medicine

18 ACADEMIC LEADERSHIP
The educational activities of the Department of Emergency Medicine

34 HIGH-IMPACT SCHOLARSHIP
Research and scholarly activities in the Department of Emergency Medicine

42 OUR TEAM
An efficient, dynamic department
It is an immense pleasure and honour to present the first Biennial Report of the University of Manitoba Department of Emergency Medicine (DEM).

Why biennial and not annual? Because, in addition to existing reporting mechanisms, the DEM’s strategic plan directs us to have a formal retreat on alternate years, to critically evaluate our progress, and to plan ahead. In the year following our biennial retreat, we will formally report on our progress in this document. In addition, there is a certain economy in a two-year cycle. We are all busy and our main work occurs between reports.

As you scroll through the Report, you will notice it is laden with photos and focused clearly on two things: our programs and our people. The people are the lifeblood of any organization and we are immensely proud of our own. But the programs are our raison d’être and keep us firmly focused on the task at hand. The informal style allows us to be accessible to the many people and outside agencies that fund us, collaborate with us or merely have an interest in the field of Emergency Medicine.
I have occasionally heard the question ‘what is your flagship program?’ asked of university departments, a presumed reference to the very best of what that department has to offer. In the case of the DEM, this question defies an easy answer. Our Undergraduate education program is one of our oldest, is consistently rated as one of the top undergraduate educational experiences by students, and functions as the base of our academic pyramid. Our two residency programs, superbly run and highly sought after, give the specialty of Emergency Medicine a sense of gravitas and clinical heft. And our Continuing Education and Professional Development program—with offerings spanning the gamut, from ultrasound, to procedural sedation to simulation-based resuscitation training—has allowed us to reach out to physicians in a variety of specialties and in rural/remote areas. But if you can imagine the DEM as a family, and these programs as children, the one that gives me most hope for the future is the youngest child, born well after the rest, but quietly showing limitless potential: research and innovation.

Ultimately, the purpose of our Department is tied to the importance of that brief but critical interaction between people in need and a system of care. What makes it tick and how do we make it better? What are the key cognitive and technical competencies that make an excellent emergency physician? How can we best identify and translate this knowledge and skill into a form providers can access and acquire? What do we need to know about our patients: the diseases that afflict them, the systems that provide their care, the world from which they come and to which they will return?

These are the questions that the DEM exists to answer. Turn the pages, and you will see the talent, focus and commitment that, in partnership with others, will help answer these questions, along with others that have yet to be asked.
HISTORY OF THE DEPARTMENT
OF EMERGENCY MEDICINE
GESTATION OF AN ACADEMIC DEPARTMENT
First Trimester: The 1980s

In the early 80s, as the earliest stirrings of a nascent specialty began to be felt across North America, a very young but enthusiastic group of physicians defied conventional wisdom and made a commitment to the development of Academic Emergency Medicine at the University of Manitoba. As you turn the pages of this report, you will see that many of them are still contributing locally and nationally, within and beyond our specialty — as clinicians, administrators, innovators and academic leaders.

Prior to that time, emergency medical care had largely been provided ad hoc by a variety of specialists, along with itinerant generalists who used the Emergency Department as a springboard to training in other specialties. Emergency Medicine was considered a young man’s work, a transit point on the road to an established specialty. With the encouragement of Dr. Gerry Bristow, the “grandfather” of Emergency Medicine in Manitoba, Academic EM began a process of growth and differentiation. Within a few years, a 4-week clinical rotation, extensive lecture series and an Advanced Cardiac Life Support Course were designed and delivered by a cadre of skilled clinicians without recourse to EM residency training and with little to no administrative support. Nevertheless, the early clerkship evaluations were extremely positive and entrenched Emergency Medicine into the curriculum to this day. In 1984, the Royal College of Physicians and Surgeons of Canada administered the first specialty exams in Emergency Medicine and 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 Head (Dr. Alecs Chochinov), which included Undergraduate (Dr. Ira Ripstein) and Continuing Medical Education (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.

Second Trimester: The 1990s

In the ensuing decade, much of the effort of the young faculty was focused on enhancing the curriculum for the two residency programs, using mostly nil-salaried staff as educators and the good will of hospital-based secretaries for administrative support. The residency programs flourished, producing a number of specialists in EM, though many left the province to practice elsewhere. In 1996, with the advent of regionalization, Dr. Wes Palatnick was appointed joint Medical Director of the WRHA Emergency Program and Academic Section Head. He built on this earlier work, overseeing an expansion in the section’s academic activities locally and nationally. Dr. Palatnick’s subspecialty certification in Toxicology also demonstrated a growing trend – for emergency medicine specialists to receive more training, and develop further expertise in related areas such as EMS, Trauma, Public Health, point-of-care Ultrasound, and others.

Third Trimester: 2000 and Beyond

By the early 2000s, the University Section of EM was well-established and the residency programs had grown exponentially. The Undergraduate clerkship program continued to garner rave reviews and the Continuing Medical Education program was amongst the most robust in the Faculty. Emergency Medicine faculty had assumed leadership roles locally and nationally, and scholarly activity was beginning to grow. The Academic EM group had clearly demonstrated what it had argued for over a decade—that Emergency Medicine was a “distinct society” within the Department of Family Medicine and deserved to be granted academic independence. At the same time, the loss of certified EM physicians to other provinces had created a supply-demand imbalance that mandated a comprehensive solution. In 2006, with the support of the former and current Deans of Medicine, a process was initiated to achieve Departmental status within the University. With the yeoman’s effort and leadership of Dr. John Sokal and others, a detailed proposal for Departmental status was developed, endorsed by the Faculty and Senate, and approved by the University of Manitoba Board of Governors. On June 1, 2008, the Department of Emergency Medicine at the University of Manitoba was born.
Our Achievements

Members of the Department of Emergency Medicine have been recognized locally, nationally and internationally for the work they do. Beyond clinical and academic excellence, they serve as mentors and role models. They are award-winning teachers and presenters. They serve in their local communities and also provide medical assistance and education to communities in need around the world.
Carolyn Snider continues to advance her impressive research agenda looking at the risks and preventative factors for youth impacted by violence, and the development, implementation and evaluation of interventions for youth injured by violence. This past year Carolyn received a number of large grants to continue her research, including:

- A Canadian Institute of Health Research Operating Grant for $887,929
- A Manitoba Health Research Council Establishment Grant for $100,000 and
- A Manitoba Institute of Child Health Operating Grant for $40,000

Dr. Snider recognizes that interventions are required at both the individual and population/policy level. Individual interventions are important because many of these at-risk youth will suffer repeat intentional injuries or even death, but policy level interventions hold the potential to have an even greater overall impact. It is imperative that individual and population interventions are relevant to the community, but they must also be implemented with structure and rigor so their effectiveness can be evaluated. Dr. Snider uses integrated knowledge translation to ensure relevancy, and also utilizes health services data and randomized control trial methodology to design, implement and evaluate these interventions.

One of Dr. Snider’s current projects is “A Multilevel Analysis of Risk and Protective Factors for Youth Homicide and Severe Intentional Injury in Winnipeg.” Funded by the Manitoba Medical Services Foundation and The Winnipeg Foundation, this study will use administrative data from the Manitoba Centre for Health Policy to determine the impact of individual and neighbourhood level risk and protective factors. Some of the factors that will be examined include previous injury, education, social housing, income, and interactions with the justice system. Understanding the impact of neighbourhood risk, in addition to individual risk, is important for the development of effective policies. Additionally, while many individual risk factors have been previously identified, Dr. Snider and her team will be developing a comprehensive, multilevel model which combines a number of these factors. This process should allow them to identify key risk and protective factors which will suggest interventions and policy changes that warrant further exploration.

Another of Dr. Snider’s current projects is the “WrapAround Care for Youth Injured by Violence: A Pilot Randomized Control Trial.” In this large trial funded by the Canadian Institute of Health Research, Dr. Snider’s team is looking at the effectiveness of a new Emergency Department Violence Intervention Program (ED-VIP) for youth at Winnipeg’s Health Sciences Centre. Youth who have been injured by violence, and who are randomized into this program, are met at the bedside in the emergency department by a support worker. These highly trained individuals will work with these youth in the community, to address factors that put them at risk for violence. The support workers have experience working with youth affected by violence, and are very effective at developing a quick rapport. The current incidence of repeat violence to these high-risk youth within one year is 20%. The team is hoping the ED-VIP will result in a significant decrease in this high incidence of repeat injury.

“I now understand that many of my patients are faced with choices I fortunately never had to make—that their decisions are often related to much larger issues such as poverty, housing and personal safety.”

Photo by: Dan Gwozdz
When Chau was five years of age, her parents made the incredibly difficult decision to send their daughter away from their home country of Vietnam – for her own safety and to provide what they hoped would be a better future for her. She spent the next year and a half in a refugee camp in Thailand before coming to Winnipeg under a church-based refugee sponsorship program. She flourished under the guidance of her adoptive Canadian mother and has a tremendous list of achievements.

Dr. Pham is a 2010 graduate of our FRCP-EM Program and in 2013 obtained her MBA from the University of Manitoba. In 2010 Chau accepted a clinical position with the Department of Emergency Medicine and also as Director, Postgraduate Ultrasound Curriculum & the High Performance Physician Program. Dr. Pham was nominated as Most Outstanding Clinician, Clerkship, University of Manitoba, Faculty of Medicine in 2011 and was also a finalist for the Future Leaders of Manitoba Award.

In 2011 Chau was the recipient of the Doctors Manitoba Dr. Jack Armstrong Humanitarian Award for outstanding contributions in the service of humanity, either within Canada or abroad. Dr. Pham is extremely committed to International charitable work, focusing in particular on the needs of children. Chau was only 17 when she co-founded Canadians Helping Kids in Vietnam (CHKV) in 1995.

In 2012 Dr. Pham was the recipient of the Woman of Distinction Award for Voluntarism, Advocacy, & Community Enhancement, YMCA-YWCA Winnipeg. She was recently named as a University of Manitoba Distinguished Alumni Award winner in the young alumni category.
IRA RIPSTEIN  Associate Dean for Undergraduate Medical Education

Being named the Associate Dean of Undergraduate Medical Education immediately after completing a term as Associate Dean of Postgraduate Education may be unprecedented in our Faculty, and speaks to the tremendous administrative talents of Dr. Ira Ripstein, and to the great confidence the Faculty has in his leadership abilities. 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.

ASHVIN SHAH  Extraordinary Teacher and Mentor

Almost every member of the DEM has an Ashvin Shah story – a moment where he inspired them, or challenged them, or gave some wise advice. Having won multiple teaching awards over the years, Ashvin continues to inspire our best students to pursue emergency medicine as a career, and challenges our residents to know more and work harder. Ashvin has a unique ability to provide just the right amount of oversight – encouraging learners to take on more responsibility, but ensuring they always feel supported and are adequately prepared.

MALCOLM DOUPE AND WES PALATNICK

CIHR Article of the year

Every year the CIHR Institute of Health Services and Policy Research (CIHR-IHSPR) recognizes published research that has significantly contributed to the advancement of the field of health services and policy research in Canada. One of the two CIHR-IHSPR 2012-13 Articles of the Year was “Frequent users of emergency departments: developing standard definitions and defining prominent risk factors” by Dr. Doupe. Co-authored by DEM member Wes Palatnick and published in the Annals of Emergency Medicine, this paper describes frequent Emergency Department patients by their demographic, health, and concurrent health care use profile. This evidence is used to highlight the need for strengthened inter-sectoral care strategies, particularly between EDs and community-based programs.
Darren Graves and Al Buchel
Emergency Medicine educators of the year

Darren Graves grew up in rural Manitoba, and attended the U of M medical school, graduating in 1989. He completed postgraduate training at the U of M and has worked as an emergency physician for more than 20 years in a wide variety of settings. For the last 18 years he has worked at the Health Sciences Centre site and was recently named the associate director of the HSC emergency department. He has recently pursued further training in simulation-based education and was named the 2012-13 Emergency Medicine educator of the year for the HSC site. The residents who nominated Dr. Graves for this award made the following comments:

“Dr. Graves is a teacher who truly leads by example. He is professional and respectful in his demeanour, and at the same time lighthearted and approachable. He facilitates a motivating yet safe environment for learners.”

“When Dr. Graves offers comment or opinion, it is clear that he brings an enormous amount of experience, learning and expertise to the conversation.”

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, and received his CCFP-EM in 2000. He moved back to Manitoba in 2002, where he now works at the St. Boniface Hospital Emergency Department. Al has been the CCFP-EM program director since 2011. He has introduced numerous innovations into the residency program, including an expansion of the resident’s opportunities for academic and scholarly activity, enhanced simulation-based training, and more community clinical practice. Al loves working with learners, and has been awarded the St. Boniface Hospital Emergency Department educator of the year in 3 of the last 4 years. One of the residents made the following comment regarding Dr. Buchel:

“Beneath the ‘aw shucks’ demeanour of Dr. Buchel lies a physician committed to excellence. He has a seemingly effortless command of the literature and the craft of Emergency Medicine. I hear my colleagues talking about how they want to structure a career with the balance, passion and dedication of Dr. Buchel.”
CHAU PHAM, RON MAIER AND CAROLINE KOWAL
Serving communities around the world

While the DEM recognizes the need to serve and provide excellent care to our local communities, there are a number of department members who serve in many other communities around the world.

Dr. Chau Pham - Canadians Helping Kids in Vietnam Inc. (CHKV) was co-founded by Dr. Pham in 1995 and works to improve the lives of disadvantaged children and their families throughout Vietnam. CHKV has built 9 schools, supports orphans in their daily living and school attendance, found 230 Canadian families who offer monthly support to low income families in Vietnam, and has sent medical and dental teams to improve health care services. In 2009 Chau led a team of physicians, nurses, and volunteers who worked in various departments of the Quang Ngai General Hospital in central Vietnam. In 2011, a much larger team of physicians, surgeons, nurses and other health care professionals provided two weeks of clinical service at the An Giang Provincial Hospital, and conducted a provincial symposium for hundreds of Vietnamese physicians. In addition, CHKV has organized 2 dental missions, in Quang Ngai province (2010) and the remote northern province of Thai Nguyen (2012).

When Dr. Ron Maier witnessed the devastation unleashed on Haiti by the 2010 earthquake he was moved to action. Ron has travelled to this devastated nation on three different occasions since. In 2010 he spent 2 weeks in Gonaïves, Haiti. In 2011 he travelled to Jérémie and in 2013 he went to Petite-Rivière-de-Nippes. On each of these trips he brought medications for local distribution, provided health care at local clinics, and coordinated teaching sessions with local physicians, nurses, and pharmacists. On the 2011 and 2013 trips he also coordinated the delivery of 500 soccer balls and 3 solar-powered water purification systems.

Dr. Caroline Kowal’s international medical experiences have primarily been with Médecins Sans Frontières, She spent 9 months in India in 2007-08 providing basic health care and antenatal/obstetrical care, as well as working to help prevent maternal child transmission of HIV. In 2010 she was in Nigeria for 6 weeks initiating a project designed to prevent maternal to child transmission of HIV. Dr. Kowal is currently the Chair of the International Emergency Medicine Committee for the Canadian Association of Emergency Physicians.
Clinical Excellence

Providing the highest quality clinical care is the ultimate goal of all we do in the Department of Emergency Medicine. Emergency physicians deal with a huge variety of conditions. They provide initial treatment to the sickest and most severely injured patients. They give the highest quality of care at all times of the night and day. Their practice requires a broad knowledge base, procedural excellence, above-average communication skills, and the ability to lead diverse teams. The Department of Emergency Medicine provides support and infrastructure that allows local emergency physicians to achieve these goals.
Emergency physicians are a unique breed. They require the broadest knowledge base, and deal with the widest variety of patient presentations in the field of medicine. The Department of Emergency Medicine supports local emergency physicians through extensive educational offerings including regular rounds, cutting edge simulation-based workshops, and journal clubs. They support practicing physicians to achieve advanced emergency medicine certification.

While most members of the DEM provide clinical care in Winnipeg-based facilities, the DEM serves as a resource to hospitals and acute-care providers throughout Manitoba.

Members of the DEM are also widely respected nationally and internationally in such diverse clinical areas as toxicology and pre-hospital care.

**The ultimate goal of all we do in the Department of Emergency Medicine is to provide high quality, compassionate care for our patients.**
CLINICAL SITES

SEVEN OAKS HOSPITAL

44,810 patients seen in a year with 8.3% requiring admission.

HEALTH SCIENCES CENTRE

52,861 patients seen in a year with 16.4% requiring admission.
Trauma centre for the province and regional centre for neurosurgery.

CONCORDIA HOSPITAL

34,060 patients seen in a year with 9.9% requiring admission.
Regional centre for orthopedic care.

SAINT BONIFACE HOSPITAL

41,011 patients seen in a year with 15.3% requiring admission.
Centre of excellence for cardiac care.

MISERICORDIA HEALTH CENTRE

42,000 patients seen per year at the Urgent Care centre.
Regional centre for ophthalmology.

GRACE HOSPITAL

24,695 patients seen in a year with 12.0% requiring admission.

VICTORIA GENERAL HOSPITAL

30,928 patients seen in a year with 8.2% requiring admission.

(based on 2012-13 data)
PRE-HOSPITAL CARE AND WFPS

Many members of the DEM play key roles in the emergency medical systems that serve both Winnipeg and the province. Dr. Rob Grierson is the medical director and Dr. Erin Weldon the associate medical director of the Winnipeg Fire Paramedic Service (WFPS). In their positions with WFPS they have provided tremendous leadership, developed high quality educational sessions, and have worked to expand the service’s capacity for research.

An important clinical innovation they have spear-headed is the pre-hospital triage for ST elevation myocardial infarction program. Winnipeg EMS is a national and international leader in first medical contact to definitive procedure time for this deadly condition thanks to the work that Drs. Grierson and Weldon have overseen. They have also introduced regional advances in the recognition and transport of stroke patients, enhanced paramedic support for regionalization of orthopedic care, and are developing novel community paramedicine projects. Placing paramedics in the Main Street Project proved to be very successful at improving care for these high-risk individuals. More recently they have introduced the Emergency Paramedic In the Community (EPIC) program. This innovative program allows paramedics to intervene with frequent emergency department users in their homes, before they are transferred to a hospital.

Drs. Grierson and Weldon have also supervised a wide variety of EMS research and quality improvement projects including multiple studies on the pre-hospital STEMI program. These studies have focused on the identification of STEMI in the field and rapid access to definitive intervention, and have been published in peer-reviewed journals. They have also looked at the treatment of chest pain, the effectiveness of paramedics in assessing patients who are presumed to be intoxicated, the use of different devices for airway management, and paramedic use of the Canadian Triage and Acuity Scale.

ROB GRIERSON Medical Director of WFPS

Dr. Grierson graduated from the University of Manitoba Faculty of Medicine in 1994. He subsequently completed his specialty training in Emergency Medicine, also at the U of M, in 1999. In 2001, he joined the Winnipeg Fire Paramedic Service as associate Medical Director, and in late 2004 became the Medical Director. In addition, he serves as an Emergency Room physician at the Health Sciences Centre.

ERIN WELDON Associate Medical Director of WFPS

Erin graduated from the University of Manitoba with her MD in 2000, and obtained her FRCPC in Emergency Medicine in 2005. She completed a self-directed fellowship in Emergency Medical Systems shortly thereafter. She has been the associate medical director for WFPS since 2005. She is a staff physician in the HSC Emergency Department and was named educator of the year for the HSC site in 2007, 2009, and 2011. She also serves as the research director for the DEM.
Academic Leadership

The emergency department is a unique educational environment. The dedicated teachers of the Department of Emergency Medicine impact and inspire a wide variety of learners – from medical students and residents, to international medical graduates and many other healthcare professionals. Teaching excellence is a core value of our department, and educational innovation a priority. Bedside ultrasound, high-fidelity simulation, and novel web-based platforms are some of the ways we are promoting clinical excellence and challenging our learners.

*Our exceptional teachers and motivated learners come together in a unique environment to provide excellent clinical care, to teach, to learn and to innovate.*
Academic leadership

Medical students consistently rate emergency medicine at the University of Manitoba as one of their top educational experiences due to the high quality one-on-one teaching they receive, and a wide variety of undifferentiated patient presentations. Emergency medicine postgraduate positions are extremely competitive, so we have a team of very accomplished, creative residents who provide exceptional patient care and frequently represent our department at national and international meetings. The Department of Emergency Medicine prepares and delivers high quality Continuing Professional Development activities which allow us to share the expertise that exists in our department with physicians and other health care providers throughout the province. Department members are also playing a key role in the education of International Medical Graduates and other emergency care providers – including nurse practitioners and paramedics.

CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT

CEPD-EM develops and runs courses, academic activities, and faculty development for physicians and other health care providers in Manitoba who practice emergency medicine. Procedural Sedation and Airway remain the two most popular courses, both in high demand due to the practical, simulation-based component that allow participants to get a feel for applying new knowledge and skills into practice. In addition, this past year CEPD provided ACLS training – following the Heart and Stroke Foundation of Canada’s Resuscitation Program – to over 175 people in the province. The positive response to current CEPD courses, combined with ongoing requests for expanded simulation-based learning opportunities, has shaped the next phase of course development for CEPD-EM: new simulation-based modules covering resuscitation topics in emergency medicine. The strong group of simulation leaders, instructors and content experts in the Department of Emergency Medicine continues to provide exciting and dynamic new opportunities for physician education and development.

EMERGENCY MEDICINE UPDATE

EM Update was held October, 2013 and was attended by over 100 participants – including rural and urban emergency physicians, residents, medical students, nurses, and physician assistants. The Department’s annual conference continues to expand each year, and this year featured a multi-day program with a full slate of hands-on skill sessions and – for the first time – a pre-conference Ultrasound Workshop. Over 30 separate lectures and breakout sessions were offered over the two days of the conference. Highlights included the Surgical Airway and Chest Tube Labs, the MSK Exam Workshop, and a review of the recent EM Literature. Planning has already begun for next year’s EM Update, which will be held in spring of 2015.

REBECCA SCHINDLE  Director of CEPD

Rebecca Schindle completed undergraduate studies at the University of Winnipeg, and then medical school at the University of Ottawa, graduating in 2003. She returned home to Winnipeg to pursue residency training in the FRCPC Emergency Medicine Program at the University of Manitoba. Since completing residency in 2008, Rebecca has worked as an emergency physician at Health Sciences Centre in Winnipeg. For the past 3 years, she has been the Director of CEPD within the Department of Emergency Medicine. Her academic interests include Medical Education and Health Literacy.
HIGH-FIDELITY SIMULATION

The practice of Emergency Medicine requires expertise in a wide variety of cognitive and procedural skills. Many of the life-saving skills that EM practitioners must learn and maintain their competence in occur infrequently. The use of high-fidelity simulation has been an area of tremendous growth in the field of medical education in general and emergency medicine in particular.

The DEM has taken a leading role in using simulation to train our resident and provide high-quality CPD. The Royal College Emergency Medicine residents currently have monthly simulation sessions at both the junior and senior levels. There is also an additional curriculum for the CCFP-EM residents that runs throughout the year. A new addition this past year has been simulation sessions focusing on joint trauma and run in collaboration with residents from the Department of General Surgery. These sessions allow residents from both programs to improve their leadership, teamwork and communication skills in an interdisciplinary setting while refining their trauma management.

This year a simulation-based course for practicing physicians – called SimART – was also offered. This one-day course allows physicians the opportunity to enhance their airway, resuscitation and trauma skills while reinforcing crisis resource management concepts. This course was so well received that an additional day of simulation-based learning for practicing physicians (tentatively called SimARTer) is being developed. On the horizon are more CPD-based courses for practicing physicians, most notably a course designed to help physicians returning from parental leave which will be starting in 2014, and a “road show” that will take simulation to rural communities. We are excited by the possibilities as the demand and support for more simulation-based programs continues to increase.

CHERYL FFRENCHE Director of simulation

Dr. Cheryl ffrench is a native Winnipeger. She completed her undergraduate education at the University of Manitoba and after a brief foray into the world of nursing, she entered medical school at the University of Manitoba, graduating in 2006 and proudly accepting a position in their FRCPC Emergency Medicine Program. She graduated with her FRCPC in Emergency Medicine in 2011. Dr. ffrench is on staff at the Health Sciences Centre where she enjoys the practice of inner city medicine and working at a trauma center. Aside from clinical medicine, Dr. ffrench is actively involved in postgraduate medical education and has been the DEM Simulation Director for the past two years.
Dr. Greg Van de Mosselaer had always loved computer programming but his interest in this area was shifted to the back-burner during medical school. Upon entering practice, he resurrected his pre-medical interests and started a second career as a programmer and web designer. His initial work was on a website for a microsurgical program, as well as the Canadian Uveitis Society website. The DEM and the provincial government quickly realized the tremendous potential this work had for promoting high-quality emergency medicine CPD and enhancing knowledge translation in a variety of areas, and invited Greg to develop ManitobaCPD.com.

ManitobaCPD.com is an online peer-controlled framework that promotes the sharing of ideas and collaboration. It has markedly enhanced the ability of the DEM to host educational rounds online and enhances active participation from local and distant sites. It promotes the development of online communities and facilitates their work and educational goals. Last year the Heart and Stroke Foundation used ManitobaCPD.com to coordinate their ACLS and BCLS training for Manitoba and Ontario. This platform also serves many important functions for the DEM, including hosting a searchable database of faculty and student research projects and publications. Greg’s work with the DEM to develop ManitobaCPD.com has led to a number of additional websites being developed (including TREKK.ca and CHIMB.com) and has put the DEM on the forefront of knowledge translation through facilitating online communities of practice.

GREG VAN DE MOSSELAER
Emergency physician and developer of www.manitobacpd.com

Dr. Greg van de Mosselaer has had a life-long interest in computers and computer programming. He received his MD degree from the University of Manitoba in 1991 and has worked mostly out of the Misericordia Urgent Care Centre and Misericordia ICU after graduation. He also worked clinically in Northern Manitoba, Quebec, and the Northwest Territories.

Shortly after starting practice he grew frustrated with the poor quality of the online medical education that he saw and so he started a second career, as a programmer and web designer. He is currently the lead programmer for ManitobaCPD.com, TREKK.ca, and CHIMB.ca, and holds the position of Chief Technology Officer for the Centre for Healthcare Innovation.
ULTRASOUND EDUCATION PROGRAM

The Department of Emergency Medicine is now approaching its third year in the implementation of a formal ultrasound curriculum, where prior to graduation, EM residents obtain the Independent Practitioner status required by the Royal College. Presently, there are only a handful of Canadian universities that have incorporated formal ultrasound training into their academic programs. The local curriculum has rapidly expanded from the initial FAST/cardiac/aortic modules to include advanced modules in obstetrics, renal, gallbladder, and DVT scans. Future plans are to incorporate advanced cardiac scanning, ultrasound guided procedures, nerve blocks, and more.

Residents’ summative reports indicate the ultrasound curriculum is well-organized, incorporating excellent didactic theory and small group hands-on training sessions with an optimal proctor to learner ratio of 1:3, culminating with an excellent and rare opportunity to perform a 50 scan IP workshop on an annual basis employing standardized patients with pathology. Further the high quality of Attending ED preceptors and the “expert” technician proctors provided by the Ultrasound Section at both teaching hospitals have been of great benefit to the residents especially in the advanced modules. In summary, residents have shared that the curriculum has greatly increased their confidence in image generation, practice, and volume of scans in order to apply EDU to their standardized care for patients.

In addition to the ED ultrasound curriculum, there are other new projects underway. To date, the DEM at the U of M is the only Canadian institution which has the SonoSim, a computer-based training platform, as well as an anatomy-based procedure curriculum. Collaboration between the Departments of EM and Surgery has resulted in research to validate the current FAST certification requirements. Finally, with an increase in ultrasound champions within EM, it is anticipated that a formal rotation will be incorporated along with CME training opportunities, for future medical students, residents and attending physicians.

CHAU PHAM
Director of the Postgraduate Ultrasound Education Program
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.
THE ROYAL COLLEGE OF PHYSICIANS
AND SURGEONS (FRCPC) RESIDENCY PROGRAM

The FRCPC program continues to be a very competitive residency with 109 applications this past year for the 4 available spots. The program is very collegial with an excellent rapport between the residents, and between residents and attendings. This excellent learning environment has resulted in great success, with all of last year’s residents passing their certification exams.

Some recent additions and innovations to the program include the “High Performance Physician” workshop (described on page 32) as well as extensive use of high-fidelity simulation for cognitive and procedural learning. The ultrasound curriculum continues to expand and improve, and a number of our recent graduates have gone on to further training in such areas as critical care and ultrasound.

There has also been great success in the area of scholarship and research with resident presentations and awards at a number of national and international meetings. Accreditation will be a big event for the FRCPC residency program in the new year.

WES PALATNICK Director of the Royal College residency program

Dr. Palatnick is a life-long Winnipegger. 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 (with recertification in 2004). Dr. Palatnick has been very active with the Emergency Medicine section of the Royal College of Physicians of Canada. He was a member of the Nucleus Committee from 1996-2002, an examiner from 1995-2000, and a member of the Program Directors and Specialty Committee from 2007 to present. Dr. Palatnick was the head of the section of Emergency Medicine in the Department of Family Medicine from 1996 to 2007. During his tenure, the Royal College Emergency Medicine program grew from a single resident per year to the present complement of 4 per year. The CCFP-EM residency program grew from a non-guaranteed position to 4 residency positions per year. He also worked towards the development of a Department of Emergency Medicine at the University of Manitoba and in 2008, the fifth University Department of Emergency Medicine in Canada was established.
FRCPC RESIDENTS

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 6 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 5 years has 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 prehospital 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 this new resident 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.
Krisțjan Thompson

Krisțjan 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, Krisțjan 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. Krisțjan 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 into 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.

Rob Gooch

Rob grew up in Vancouver, where he split his time between running track and being a math nerd. He started an undergraduate degree in biophysics, but halfway through realized he’d rather order CT’s than understand how the CT machine works, so he flew across the country and started medical school at the University of Western Ontario. After four years spent mostly at the track he graduated and decided to discover what a real winter, and real trauma is like, so he came to Manitoba. His interests include running and resuscitation.

Carmen Hrymak

Carmen grew up on a farm in Erickson, Manitoba. She spent most of her free time playing sports and riding horses. She attended Brandon University then moved to Winnipeg for medical school and now for her residency. Carmen is excited to be part of the Emergency Medicine program in Winnipeg where the residents are cohesive and fun to work with, the staff make the effort to get to know every resident and spend time teaching, and the wide variety of patients ensure everyone graduating from the program will have exceptional clinical skills. She continues to enjoy activities outside of work including running, yoga, tennis, and long walks by the river. She also occasionally gets back to the farm to visit the animals.

Murdoch Leeies

Murdoch was born in Winnipeg’s urban core. Before realizing his love of resuscitation he had a variety of odd-jobs including dancing fork, baritone-for-hire, and Pilates instructor. Murdoch’s choice of Winnipeg for Emergency Medicine residency training was an easy one. The residents are cool and it’s a very cohesive, supportive group. The staff doctors love to teach and have a wealth of experience to share. Winnipeg is basically a funnel for pathology with its huge catchment area of patients. Our program is small enough for each resident to get hands-on experience without competitive pressure for procedures and management of rare presentations, while boasting a level 1 trauma centre, cardiac centre of excellence and emergency sub-specialists in toxicology, EMS, palliative care, ethics, critical care, ultrasound and simulation just to name a few. Murdoch’s current interests in Emergency Medicine include Critical Care, Resuscitation and EMS.

Katie Toews

Katie grew up in Beautiful British Columbia on a healthy diet of granola and mountain air. She did an undergraduate degree at UBC in Microbiology and then trained as a physiotherapist. She worked at an inner city hospital in Vancouver until deciding that she was more interested in the medical issues of her patients than their rehab and returned to UBC for Medical School. Katie came to the U of M emergency medicine program for the acuity of the medicine and the hands on experience. She has found that the residents and staff in this program are some of the nicest people she has ever worked with. She has been enjoying Winnipeg for its culture and recreation and likes to cycle, swim, camp, backpack, canoe and kayak.
Tom moved from Serbia to Winnipeg at the age of 8 months. He completed his undergraduate degree at the University of Winnipeg then took off in search of adventure and a medical degree. He was lucky enough to find both. He graduated in 2009 from Ross University, an institution that offered him the opportunity to train and learn in many different places. Some of the places that he lived and trained in during this time included Dominica, Washington DC, New York City, and Cleveland. After having spent a month doing an elective at the Health Science Centre Emergency Department in Winnipeg, he fell in love with this program. He and his wife have settled back into life in Winnipeg and love it. Tom’s current interests include medical education and bedside ultrasound.

Dave grew up in Ft. McMurray (before it was big), and spent his early days kicking around northern Alberta. After starting in operatic (as in opera, not operations) training in Calgary, he realized he actually wanted to be a doctor. Not just any doctor, an emergency room doctor. Dave moved to Winnipeg with his wife in 2005 when he got into medical school, and they have been populating the countryside ever since. They welcomed their first 3 children in the midst of medical school, and another 2 during residency. He is confident that the program at the University of Manitoba has trained him for whatever comes through the department, and has enjoyed the journey along the way. His interests within emergency medicine include pediatrics, procedural education, and bedside ultrasound.

Julian grew up in Winnipeg and spent most of his formative years playing trumpet or riding horses (though never together interestingly). His undergraduate degrees were in music and theology, and his interest in medicine lay dormant until he got a job as a paramedic. He liked the lights and sirens but soon realized that he wasn’t done learning. So, he decided to head back to university and ultimately was accepted in to the Faculty of Medicine. As you might imagine, Emergency Medicine was a natural fit for Julian. He loves the diversity, the acuity, and the constant stream of information that emergency physicians have to make sense of. Now near the end of his last year of training he’s excited to put all of this learning into practice and start giving back to the program. He remains interested in pre-hospital medicine and has found great satisfaction working with STARS Air Ambulance as both a transport physician and educator.

Katie is a born & partly bred American, who grew up in Upstate New York, Boston & finally Winnipeg. Growing up she preferred to spend her time in the dance studio & on stage. Even when leaving Winnipeg to complete a science degree at McGill University she was a Broadway dreamer, envisioning a life of feathers, sequins and lights. However, her hopes of show-biz stardom were dashed after spending several unfulfilling summers both performing professionally & waitressing/bussing at local establishments. Returning home to the prairies for medical school she fell in to Emergency Medicine at the last minute. The Emergency Medicine program at the University of Manitoba hosts incredible pathology & trauma, dedicated attendings, and residents who are always rallying to support one another. Outside of medicine she still straps on the tap shoes every Monday night and enjoys fitness of any kind, as well as reading novels that have nothing to do with medicine and taking long walks in the snow.
The CCFP-EM program in Manitoba has now grown to a total of 4 residents per year. The program is administered through both the DEM and the Department of Family Medicine. A big highlight in 2013 for the CCFP-EM program was the expansion of resident clinical rotations at the Seven Oaks and Victoria General Hospitals. The practice in these community hospitals more closely mirrors the practice environment most CCFP-EM residents will end up working in, and offers significant new opportunities for the residents and the sites. It is anticipated that the CCFP-EM presence at these sites will expand and become more formalized in the future. The academic growth of the program continues with more dedicated simulation-based teaching for the residents, expanded research and scholarly opportunities, and a continuation of the Tintinalli rounds that proved very popular last year. The residents are also very excited about participating in the High Performance Physician program.

One big thing on the horizon for the CCFP-EM program is an exciting new opportunity to explore how the DEM can support distributed learning. The infrastructure is currently being put in place to support 2 CCFP-EM residents to train in Brandon, Manitoba. This will benefit the community, build capacity for teaching and learning in this setting, and allow our residents to be exposed to a wide variety of undifferentiated clinical presentations in the community setting. This program is slated to begin in 2015.

**THE COLLEGE OF FAMILY PHYSICIANS SPECIAL COMPETENCE IN EMERGENCY MEDICINE (CCFP-EM) RESIDENCY PROGRAM**

Al Buchel
Director of the CCFP-EM Program

Al 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, and received his CCFP-EM in 2000. Over the next couple of years he had a mixed family and emergency medicine practice in Northern BC and Nunavut. He moved back to Manitoba in 2002, where he now works at the St. Boniface Hospital Emergency Department, as well as providing physician support for aero-medical transport through the Lifeflight program.

Al has been the CCFP-EM Program Director since 2011. He has introduced numerous innovations into the residency program, including an expansion of the resident’s opportunities for academic and scholarly activity, enhanced simulation-based training, and more community clinical practice.

Al loves working with learners, and has been awarded the St. Boniface Hospital Emergency Department educator of the year in 3 of the last 4 years.
JEFF CHAN
Jeff was born and raised in Toronto, and spent the early years of life dreaming of becoming a dump truck driver. At some point an infatuation for medicine might have been implanted by his parents, before realizing sometime in his 20s this might actually be a fitting career. He finished his family medicine training at the University of Toronto program based out of the Southlake Regional Health Centre in Newmarket and is very excited to be studying emergency medicine in Winnipeg. The pathology, staff teaching, academic teaching, simulation sessions and the other residents are amazing. Jeff also keeps active playing volleyball and tennis and will take steps to improve his golf swing.

EVAN HEAD
Evan is originally from St. Thomas, Ontario a small town south of London. His undergraduate degrees were from McGill (Anatomy) and Dalhousie (Management). Next his postsecondary education took him to the University of Western Ontario for Medical School and then two years of Family Medicine at the University of Toronto. He likes to do something active every day, whether it be running, going to the gym, playing hockey or waterskiing. Evan has found Winnipeg and the other Emergency Medicine Residents to be warm and welcoming. He feels that the simulation-based training and the academic half days are huge strengths of the program. Evan hopes to practice Emergency Medicine along with Family Medicine in a rural setting.

KELLY MACDONALD
Kelly’s medical training has taken her all across Canada and she has enjoyed living in different parts of the country and meeting new people. She’s from Vancouver and did her undergraduate degree at the University of Victoria. She then completed medical school at Western University in London, Ontario. After four years of being land-locked she was eager to be back on the ocean, so she went to Halifax for her Family Medicine Residency. She is very impressed so far by the welcoming nature of the program and the cohesiveness of the Emergency residents. Outside of medicine, she loves hiking, camping, skiing, traveling and spending time with her family. Her goal is to live in a small community and work in a Family Medicine clinic as well as in the emergency department.

PETER WAUTHY
Peter was born and raised in BC. He has grown to love the great outdoors, enjoying hiking, camping, and fishing. When he’s not outside, Peter is usually cooking Italian, attempting to play guitar, or working out. He did his medical training in the Northern Medical Program through the University of British Columbia where he met his wife, Erin. They completed their Family medicine residency in Kelowna, BC, before starting a new adventure in Winnipeg. They are also excited to be new parents with the recent birth of their son, Julian. Peter envisions working in a community hospital in the future.
HIGH PERFORMANCE PHYSICIAN PROGRAM

In 2009 the DEM developed an innovative addition to its residency curriculum to address the needs and expectations of its residents. The High Performance Physician (HPP) Program arose out of the recognition that our EM residents need to perform to very high standards, while also maintaining perspective, coping effectively, and successfully navigating 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 program incorporates the CanMed roles and offers validated tools and strategies to regain and sustain consistent performance, and to effectively integrate personal life and work demands. The two-year curriculum is offered to both the FRCP and CCFP EM residents and delivered by sports psychologists who work with high performing professional athletes, many of whom are Olympic champions. Prior to the curriculum, an individual assessment and counseling is provided to each resident. Subsequently, a number of modules are delivered that focus on perspective and recovery, optimizing capacities on demand through emotional preparation and processing, professional learning in medicine, and adopting models of best practice, among many other themes.

Post-curriculum evaluations have consistently demonstrated a significant improvement in residents’ confidence levels and preparedness for anticipated difficult scenarios. They report improved emotional preparation, and the use of new processing strategies which enable them to more effectively translate their intellect into actual performance. In addition, residents have described a new perspective on the need for balance between their professional and personal lives, which can serve as a buffer against the continual stresses of an EM residency program. Evaluations of this program have been accepted for presentation at national and international conferences, including the International Conference on Residency Education in 2010 and 2013.

OFF-SERVICE RESIDENTS
Teaching learners from other residency programs in the unique environment of the emergency department

Many other residency programs recognize the importance of having their learners train in the emergency department setting. It allows them to encounter and become comfortable dealing with critically ill patients. It allows learners to see and work-up undifferentiated illness. It also provides an excellent interdisciplinary environment and promotes enhanced communication skills.

About 65 residents per year from a wide variety of training programs learn under the direction of the emergency physicians at the HSC and St. Boniface sites.

In addition to the clinical shifts they work, these learners receive an extensive orientation, attend academic rounds, and undergo a comprehensive standardized assessment. There is also a wide variety of academic emergency medicine material available for online learning.

DOUG EYOLFSON
Coordinator of the off-service education program

Doug Eyolfson holds a Master’s degree in Physiology from the U of M and graduated with his MD in 1993. He obtained his Royal College specialty training (FRCP) in 1998. He is a former medical director of the Manitoba land ambulance system and has considerable experience in the area of aeromedical transport. He has worked for many years as a flight physician with Lifeflight and Stars. When he is not coordinating the off-service educational program Doug likes to run marathons.
THE INTERNATIONAL MEDICAL GRADUATE EDUCATIONAL PROGRAM

The International Medical Graduate Program is designed to train medical professionals who received their original medical training in another jurisdiction, but who are now practicing in Canada and will be working in rural and remote areas. Emergency Medicine will be a large part of the practice of these individuals. The DEM International Medical Graduate program is designed to ensure these learners are rural ready, confident and competent when they begin their new practice in Manitoba. The program combines traditional forms of emergency medicine teaching with the latest in educational technology. These learners receive significant Emergency Department exposure with direct supervision and bed-side teaching delivered by experienced emergency physicians. They attend a series of Emergency Medicine didactic lectures, hands-on skills workshop training, and Advanced Cardiac Life Support courses. They also participate in a number of high-fidelity simulation sessions – where common and crucial skills are learned in a simulated setting. The goal of the program is to produce an environment for thorough learning of Emergency Medicine skills and knowledge that can be taken with confidence to the workplace.

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 a community hospital in Winnipeg. His present research interest is electronic medical record implementation.

UNDERGRADUATE MEDICAL EDUCATION

The Emergency Medicine undergraduate educational experience is consistently one of the highest rated clinical rotations by U of M clerkship students. The DEM also receives very high marks from recently graduated students as measured by the Canadian Graduate Questionnaire. Elements of their emergency medicine educational experience that students frequently praise are the high-quality one-on-one teaching, the engaged and passionate attendings, exposure to and experience with a wide variety of procedures, and the ability to see and care for undifferentiated and critically ill patients.

Students also love the formal teaching that is part of their undergraduate emergency medicine clerkship – including small group lectures, and a number of simulation-based seminars dealing with acute cardiac and trauma care.

The new curriculum has brought an expanded emergency medicine experience for students, with a new 4 week rotation. More students will spend time in community emergency departments allowing them greater educational opportunities and greater exposure to common, need-to-know conditions. Other unique elements of the student’s emergency medicine educational experience include an introduction to ultrasound as a bedside tool, and the opportunity to ride along with paramedics as they respond to calls. Every year a large number of DEM attendings are nominated for student teaching awards – another testament to the appreciation students have for the teaching they receive.

MONA HEGDEKAR Director of Undergraduate Medical Education

Mona graduated from the University of Manitoba Faculty of Medicine in 1993, obtained her CCFP designation at Dalhousie University (94-95) and received her CCFP(EM) certification in 2000. She worked at the Victoria General Hospital from 1999-2008 and has been on staff at the St. Boniface Hospital since. Mona played an active role in the Faculty’s preparation for undergraduate accreditation in 2012, as well as the current curriculum renewal. She says that her favorite parts of the job are the practical focus of the teaching, and the simulation-based learning. She was recently promoted to the rank of assistant professor.
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.

*Departmental status has brought a renewed commitment and an expanding capacity to advance the field of Emergency Medicine.*
Members of the emergency medicine community are making significant contributions in a variety of academic areas – toxicology, emergency medical services, hypothermia, emergency department information systems, and medical ethics are all traditional areas of strength. The establishment of the Department of Emergency Medicine has allowed for an enhanced research capacity and greater funding opportunities. Growth in the residency programs has meant increased research output, and led to numerous presentations at the national and international levels. The recruitment of a dynamic emergency physician/researcher with CIHR funding and a goal to help decrease youth violence through emergency department interventions has allowed us to develop new collaborations and contribute in a meaningful way to our communities of service.

**CAROLYN SNIDER**

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. Dr. Snider is a Scientist at the Manitoba Institute of Child Health, an Assistant Professor in the Department of Emergency Medicine, and an emergency physician at the Health Sciences Centre. Dr. Snider's primary research focus is the design, implementation and evaluation of interventions for preventing youth violence. Dr. Snider practices mixed method research, using large administrative databases, community based participatory research, and clinical trial methodologies – all with an integrated knowledge translation approach.

**TERRY KLASSEN, LYNNE WARD A**

AND THE PEDIATRIC EMERGENCY MEDICINE GROUP

The physicians who work in Pediatric Emergency Medicine are part of the Department of Pediatrics, and yet many have significant affiliations with the DEM because of the nature of their clinical work and academic interests. Two world-class researchers from Pediatric Emergency Medicine who are cross appointed to the DEM are Terry Klassen and Lynne Warda.

Dr. Terry Klassen graduated with his MD from the U of M in 1982, completed his pediatrics residency training in 1986, and subsequently obtained his Masters in Clinical Epidemiology at McMaster in 1995. He has become a national and international leader in the pediatric emergency medicine and emergency medicine research community. He has held top-level administrative positions in Ottawa (director of research at CHEO) and Alberta (chair of pediatrics at U of A and director of Alberta Research Centre for Child Health Evidence) and after moving back to Manitoba in 2010 has taken over as Director of Research, The Manitoba Institute of Child Health, Associate Dean, Academic, Faculty of Medicine, Director of Research, Department of Pediatrics and Child Health, and Director, The George and Fay Yee Centre for Healthcare Innovation. Terry has obtained millions of dollars in grant-funding over the years and at last count has published 189 peer-reviewed articles in top journals – including the New England Journal of Medicine and BMJ.

Dr. Lynne Warda received her MD from McMaster in 1992, completed her pediatrics residency training in 1996 and obtained a PhD in Community Health Sciences from the U of M in 2005. Lynne has become a national expert and leader in the areas of childhood injury and trauma, and their prevention. She is the medical director of IMPACT – the injury prevention program of the Winnipeg Regional Health Authority. She sits on a number of national committees looking at such issues as booster seat use and pediatrics hospital safety, and has taken a special interest in the synthesis and translation of the research evidence in her area of expertise. She is working to ensure that her research leads to better outcomes and safer kids. In 2012 the high quality of her work and her efforts to translate evidence into practice was recognized when she received the prestigious Doctors Manitoba award for Health or Safety Promotion.
ERIN WELDON Director of research

Since assuming the role of director of research, Dr. Weldon has helped to enhance research capacity, mentored numerous residents and students, and also leads by example. She has numerous recent projects and publications to her credit including peer-reviewed publications in CJEM, Canadian Journal of Cardiology, and Emergency Medicine Clinics of North America. She also has an active research and oversight role with the provincial EMS system.

WES PALATNICK First professor of Emergency Medicine

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 was promoted to the rank of professor in 2005 due to this work, as well as significant administrative contributions as head of the Health Sciences Centre Emergency Department, and section head of Emergency Medicine. He currently directs the Royal College residency program.

MERRIL PAULS Ethics and professionalism

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 Canadian Emergency Physicians – the Risky Business educational roadshow and is chair of the Canadian Association of Emergency Physicians ethics committee. He is co-director of the Professionalism program at the Faculty of Medicine.

RESEARCH EDUCATION AND INNOVATION FUND
Growing our research community

An important initiative of the DEM has been to support ongoing research and scholarly collaboration in our departments. To this end the REDI fund was established. This fund is available to support important emergency medicine research. In addition to traditional clinical research partners such as EMS, cardiology, ICU, and pediatrics, we are growing new relationships with gastroenterology, hematology, and other clinical departments and sections.

VANESSA PERINOT Building capacity and support for research

Building research infrastructure requires significant support and expertise. Vanessa has worked in the Office of Research Services previously. Her current role with the DEM is to interact with faculty, the University, WRHA Programs, support staff, funding agencies, regulatory authorities and other parties to enhance our research productivity, and build capacity in our department.

TREVOR STROME Making sense of the information flow

The many clinical sites of the DEM are linked through an Emergency Department Information System (EDIS) that collects a wealth of vital clinical data and parameters. Using this data to help us understand current patterns, identify future trends, and share this knowledge with others is the job of Trevor Strome. Trevor is Informatics and Process Improvement Lead for the WRHA Emergency Program and Assistant Professor with the DEM. Trevor has undergraduate training in computer science and neuroscience, and graduate training in Epidemiology. Trevor has recently published an important book—Healthcare Analytics for Quality and Performance Improvement—which is rapidly becoming a key text in the field. He has delivered invited lectures throughout North America and in Europe as a result of this publication.
RESIDENT RESEARCH AND SCHOLARSHIP
Mentoring the next generation

A core goal of our training programs is to provide residents with a grounding in evidence-based medicine, and mentor them through the research process. Over the years the residents have been increasingly successful in developing projects, finding collaborators, completing their projects and being invited to present their results at national conferences and in high-quality journals. The last 2 years have been particularly successful with the following resident presentations and awards:

1) **Tom Jelic** – Use of cardiac metabolomics – at the American College of Emergency Physicians, Denver 2012
2) **Joseph Bednarczyk** – Education in Evidence-Based Medicine – at the Canadian Association of Emergency Physicians, Vancouver 2012
3) **Deborah Hill** – Musculoskeletal teaching – at the Canadian Association of Emergency Physicians, Vancouver 2012
4) **Carmen Hrymak** – Use of low-rad CT for renal stones - at the Canadian Association of Emergency Physicians, Vancouver 2012 (winner of the best resident submission award)

RESIDENT RESEARCH DAY

Resident Research Day is an annual celebration of the best scholarship and educational innovations our residents have to offer. Over the last number of years we have highlighted the increasingly collaborative nature of emergency medicine research and this past year invited collaborator Malcolm Doupe to act as a guest judge. One of the prominent points of celebration at the event was the recent awarding of a CIHR-IHSPR 2012-13 Article of the Year to “Frequent users of emergency departments: developing standard definitions and defining prominent risk factors” published by Dr. Doupe and co-authored by Dr. Palatnick. The presentations for the day were uniformly excellent and highlighted the many high-quality projects being undertaken by the residents in the DEM. The following award winners were announced at the end of the presentations: Dr. Deborah Hill was awarded second place for her project entitled: “Musculoskeletal Education in EM Residency: Perceived Needs of Residents and Program Directors.” Drs. Tom Jelic and Katie Sullivan were the co-winners of the best project of the day for their projects titled: “Cardiac Metabolomics in the Emergency Department” (Dr. Jelic) and “The Emergency Department Clearance of Intoxicated Youth” (Dr. Sullivan).
Emergency Medicine Resident
Published Abstracts


Emergency Medicine Resident
Book Chapters


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
Faculty with Cross Appointments to the Department of Emergency Medicine

2013 - Warda L, Habling J (Principal Investigators) "Bicycle Helmet Use in Remote and Rural Manitoba Communities" Manitoba Government, Department of Healthy Living, Seniors and Consumer Affairs - $5000 awarded

2012 - Warda L, Habling J (Principal Investigators) "Bicycle Helmet Use in Remote and Rural Manitoba Communities" Manitoba Government, Department of Healthy Living, Seniors and Consumer Affairs - $5000 awarded

Jackson C, Warda L, Curtis J, Derrett J, Baker C (Principal Investigators) "Sports, Play and Recreation, Keeping Kids Safe" Public Health Agency of Canada - $100,000 awarded

Warda L, Briggs G, Habling J (Principal Investigators) "Injuries to Vulnerable Road Users" Canadian Hospitals Injury Reporting and Prevention Program, Health Canada - $5000 awarded

Warda L, Piotrowski CP, Bruce B J (Principal Investigators) "Childhood Automobile Safety: Booster Seat Use Among Canadian Children" Manitoba Centres of Excellence Fund - $3078 awarded

Warda L (Principal Investigator) "Injuries and Protective Equipment Use in Play and Recreation" Canadian Hospitals Injury Reporting and Prevention Program, Health Canada - $5000 awarded

Faculty Publications – DEM Faculty

Peer Reviewed Publications


Raghavan M, Martin BD, Burnett M, Aoki F, Christensen H, MacKalski B, Young DG, Ripstein I.

Gausche-Hill M, Brown K, Oliver ZJ, Sasson C et al. An Evidence-Based Guideline for Prehospital Analgesia in Trauma. Prehospital Emergency Care. (under revision)

Thomas S, Brown KM, MD, Oliver ZJ, Spade D et al, Evidence Based Guidelines for the Triage and Transport of Trauma Patients. Prehospital Emergency Care. (under revision)

Chu J, Snider C. Prevalence of PTSD in Canadian Youth Exposed to Violence. (under review)

Basham, A, Snider C. Age-Specific Trends in Youth Exposed to Violence. (under review)

Chu J, Snider C. Prevalence of PTSD in Canadian Youth Exposed to Violence. (under review)

Books


Book Chapters


Published Abstracts


FACULTY PUBLICATIONS

Faculty with cross appointments to the DEM


Our Team

Many different individuals contribute in a wide variety of ways to ensure the goals and objectives of the DEM are achieved.
ANN MARIE ALDIGHERI Financial Assistant
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 and in her current role she assists with reconciliation of departmental accounts and in documentation for Relative Value Guide stipends. She provides office assistance for the Undergraduate Program, the biennial report and the department retreat.

ALISON MCAULAY Reception
Alison has extensive administrative and customer service experience and joined the department in March 2013 as receptionist for the administrative office. Alison participates in a variety of duties associated with the department’s programs including keying and collating resident/preceptor evaluations. She keeps the office well organized and is the coordinator for all audio visual equipment bookings for classrooms and other activities for department members.

JOANNA CROWTHER Program Assistant for UGME
Joanna joined the University in 2004 when it was the Section of Emergency Medicine with the Department of Family 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 rotations, prepares information packages for visiting elective students, coordinates schedules and organizes various clinics for Undergraduate Students.

DARLENE SCIBAK Executive Assistant
Darlene started with the University in 2005 as an office assistant with the Manitoba Institute of Cell Biology. In July 2007 she accepted the position of Assistant to the Head for the Section of Emergency Medicine and now is the Executive Assistant with the Department of Emergency Medicine. Darlene provides administrative support to the Department Head, the IMG Coordinator and various department committees. She plays a key role in promotions and tenure and academic career advancement for the department.

TRISHA BEDARD
Program Assistant for Continuing Education and Professional Development
Trisha started with the Faculty of Medicine 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.

MICHnelle 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. She is also one of the management representatives on the Bannatyne Local Area Safety and Health Committee.

CHRIS COWAN
Program Assistant for the FRCPC and CCFP-EM residency programs
Chris Cowan joined the University of Manitoba in October 2000. She joined the DEM in November 2008 in the newly created program assistant position supporting CME and the CCFP-EM residency program. In August 2012, she became the postgrad program assistant and now supports the CCFP-EM and FRCPC-EM programs. Her main duties include residency scheduling and support, as well as administrative support to the FRCP director and assistant director, the CCFP-EM director, the CCFP-EM practice eligible physician program coordinator, the postgrad Ultrasound director, the programs’ chiefs and related committees. Chris is also a long standing committee representative on the University of Manitoba’s Support Staff Endowment Fund.