<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Message from the Department Head</td>
</tr>
<tr>
<td>3-6</td>
<td>Faculty and Staff</td>
</tr>
<tr>
<td>7-13</td>
<td>What’s New in Emergency Medicine</td>
</tr>
<tr>
<td></td>
<td>Retirees</td>
</tr>
<tr>
<td></td>
<td>New Faculty and Staff</td>
</tr>
<tr>
<td></td>
<td>In Memoriam</td>
</tr>
<tr>
<td></td>
<td>Honours and Awards</td>
</tr>
<tr>
<td></td>
<td>Incoming and Outgoing Residents</td>
</tr>
<tr>
<td>14-18</td>
<td>Clinical</td>
</tr>
<tr>
<td></td>
<td>Message from the Program Medical Directors</td>
</tr>
<tr>
<td>19-25</td>
<td>Education</td>
</tr>
<tr>
<td></td>
<td>Postgraduate Medical Education Update</td>
</tr>
<tr>
<td></td>
<td>Fellowship Updates</td>
</tr>
<tr>
<td></td>
<td>Undergraduate Medical Education Update</td>
</tr>
<tr>
<td></td>
<td>Simulation-Based Medical Education Update</td>
</tr>
<tr>
<td>26-30</td>
<td>Research</td>
</tr>
<tr>
<td></td>
<td>Research Director Report</td>
</tr>
<tr>
<td></td>
<td>Resident Research Director Report</td>
</tr>
<tr>
<td></td>
<td>Profiles in Research</td>
</tr>
<tr>
<td>31-33</td>
<td>Departmental Life</td>
</tr>
<tr>
<td>34-40</td>
<td>Research Grants and Publications Listing</td>
</tr>
</tbody>
</table>
MESSAGE FROM THE DEPARTMENT HEAD

Message from the Department Head

I am delighted to once again share with you the accomplishments and activities of the members of the Department of Emergency Medicine at Queen’s University in this Annual Report for 2019. Leading this team of exceptional clinicians, educators, trainees, researchers, scholars, and administrators is a source of great pride for me, and also incredibly humbling.

Through our collaborative efforts, 2019 was another year of forward progress and growth for our department, and the following pages will highlight many of the people and initiatives that have led our group to achieve great things together.

A highlight of 2019 was an intensive, collaborative project to develop a new 5-year Strategic Plan for the Department. This exciting work was an opportunity for us to reflect on our strengths and successes, our opportunities for future growth and improvement, and a chance to recommit ourselves to being national leaders in clinical care, research, education and professional sustainability. Together, we have created a robust set of strategic aims that will guide our collective work in the years to come, with an emphasis on building partnerships and seeking collaborative opportunities not just among ourselves, but with our peer departments, our broader community, and beyond our national borders.

Our faculty members continue to distinguish themselves and receive institutional and national recognition for their work in education, research, and mentorship. We’ve welcomed new faculty and staff to our departmental ranks this year, while we’ve also celebrated and recognized the retirement of two long-serving senior faculty members, Rob Brison and Ken Edwards. We’ve taken pride in the achievements of the graduates of our FRCPC and CCFP-EM residency programs, as well as our fellows in Resuscitation and Global Emergency Medicine, and we’ve welcomed a diverse and accomplished cohort of new trainees who will enrich our department and our discipline in the years to come.

Our clinical work can be quite difficult at times. Our clinical facilities are in desperate need of renewal. Our patient population requires care resources and supports like never before, while also growing steadily in numbers. Despite these challenges, we take pride in the work we do, and as a department we have taken action in support of our strong desire to ensure that emergency medicine faculty, trainees, and staff enjoy healthy and sustainable careers and experience professional satisfaction. The creation and support of a departmental Professional Sustainability Lead has been an important undertaking to keep us well, and to explore how we support one another in pursuing our clinical and academic work.

As we look ahead to 2020, we expect a year that will have unprecedented challenges for our department and our broader institutions and the healthcare system. And yet, I remain confident that our Queen’s Emergency Medicine team is ready and willing to actively engage to continue our pursuit of excellence.

It is with immense gratitude to my colleagues and our entire team that I share this annual report with you. I hope you will share my excitement for the future as you learn about the year that’s passed.

David Messenger, MD, MM, FRCPC, FCCP
Associate Professor and Department Head
FACULTY AND STAFF

Dr. Susan Bartels, FRCPC
Associate Professor

Dr. Colin Bell, FRCPC
Assistant Professor

Dr. Elizabeth Blackmore,
CCFP(EM)
Assistant Professor

Dr. Danielle Blouin,
FRCPC, MHPE, PhD
Professor

Dr. Erin Brennan, BHSC,
MMEd, FRCPC
Assistant Professor

Dr. Robert Brison, MPH,
FRCPC
Professor

Dr. Steven Brooks, MHSc,
FRCPC
Associate Professor

Dr. Eric Bruder, FRCPC
Assistant Professor

Dr. Jennifer Carpenter,
FRCPC
Associate Professor

Dr. Jaelyn Caudle, FRCPC
Assistant Professor

Dr. Timothy Chaplin,
FRCPC
Assistant Professor

Dr. Kenneth Collins,
CCFP(EM)
Assistant Professor

Dr. Fran Crawford,
BSc, RD, FACEP, FRCPC
Assistant Professor

Dr. Damon Dagnone,
FRCPC
Associate Professor

Dr. Stuart Douglas,
FRCPC
Assistant Professor
FACULTY AND STAFF

Dr. Terrence O’Brien, CCFP(EM), FRCPC
Assistant Professor

Dr. Michael O’Connor, MMEd, FRCPC
Professor

Dr. Armita Rahmani, CCFP(EM)
Assistant Professor

Dr. Louise Rang, RDMS, FRCPC
Associate Professor

Dr. Matthew Stacey, CCFP(EM)
Assistant Professor

Dr. Marco Sivilotti, MSc, FRCPC, FACMT, FAACT
Professor

Dr. Craig Simpson, CCFP(EM)
Assistant Professor

Dr. Andy Reed, FRCPC
Assistant Professor

Dr. Nic Roca, FRCPC
Assistant Professor

Dr. Stephanie Sibley, FRCPC
Assistant Professor

Dr. Craig Simpson, CCFP(EM)
Assistant Professor

Dr. Marco Sivilotti, MSc, FRCPC, FACMT, FAACT
Professor

Dr. Matthew Stacey, CCFP(EM)
Assistant Professor

Dr. Adam Szulewski, MHPE, FRCPC
Associate Professor

Dr. David Walker, FRCPC
Professor

Dr. Melanie Walker, PhD
—

Dr. Heather White, FRCPC
Assistant Professor
ADJUNCT FACULTY

Dr. Jason Bornstein
Dr. Amanda Collier
Dr. Sharleen Hoffe
Dr. Mackenzie Howatt
Dr. Graeme Ross
Dr. Aaron Ruberto
Dr. Zachary Warren
Dr. Matthew White

FACULTY AND STAFF

Ms. Catie Chamberlain, Administrative Assistant
Ms. Susan Holland, Special Projects Coordinator & Executive Assistant
Dr. Vlad Latiu, Research Coordinator

Ms. Mary Lee, Postgraduate Program Administrator
Ms. Kim Marsh, Financial Assistant
Ms. Jill McCreary, Manager of Operations
Ms. Jessica Montagner, Research Administrator
Ms. Jackie Morris, Study Coordinator

Lindsay O’Donnell, Study Coordinator
Tiffany Roy, Finance Coordinator & Undergraduate Assistant
Ms. Tina Wisteard, Data Entry Clerk
RETIREES

Dr. Robert Brison

Rob is a Full Professor in the departments of Emergency Medicine and Public Health Sciences at Queen’s University. He graduated from Queen’s University School of Medicine in 1977. Upon completing four years’ residency training he has been a clinician with Queen’s Emergency Medicine since 1981. In the mid 1980’s he completed his MPH in Epidemiology and Biostatistics at the School of Public Health, University of Washington, Seattle. On returning to Queen’s he began developing a research career to complement his clinical practice. He became the Research Director in 2003 for the Kingston General Hospital Clinical Research Centre.

Rob’s research efforts have contributed to over 125 peer reviewed publications. His work has received millions in funding from many sources including CIHR, the Heart and Stroke Foundation, Health Canada and the Public Health Agency of Canada, US Centers for Disease Control, National Institute for Occupational Safety and Health (NIOSH), Agriculture and Agrofood Canada, the Ontario Neurotrauma Foundation and the Ontario Innovation Fund. He’s enjoyed supervising 18 Masters and PhD student theses and 30 undergraduate medical student research projects, many of which led to publications and most to abstract presentations.

In 2018 a celebration was held in honour of Rob’s successful research career and the department launched an annual RJ Brison Research Day.

In 2019 Rob began a new journey, the time everyone calls “retirement”... the time that is for all those hobbies and activities we don’t have time to do when we have a career. We are sad to see him go but also extremely happy to see him be able to start his retired life knowing he has earned and deserved every moment of his new path in life.

Happy Retirement Rob!!

Dr. Kenneth Edwards

Dr. Ken Edwards is an Assistant Professor in the Department of Emergency Medicine and the Department of Family Medicine. He graduated from Queen’s University School of Medicine in 1980. Since completing four years of residency training in 1983, he has practiced Emergency Medicine at Queen’s University/Kingston Health Sciences Centre.

Over his career, Ken has taken on numerous leadership positions in the department, the hospital, and beyond. These have included service as Medical Director for the Department, and more recently as our first Quality Improvement & Patient Safety Lead. Dr. Edwards was a key player in the negotiation of the SEAMO alternate funding plan agreement in his capacity as President of the Clinical Teachers Association of Queen’s University. In recent years, he served as the Emergency Medicine Lead for the Southeast Local Health Integration Network. Throughout his tenure at Queen’s, Ken has been a committed teacher of medical students and residents. He has served as an examiner for both the College of Family Physicians and the RCPSC exams, as well as with the Medical Council of Canada. His teaching has emphasized the importance of quality improvement and patient safety in the clinical practice of emergency medicine.

Ken has a passion for the outdoors. He is often found with his binoculars looking for the latest and greatest unusual bird sighting. He is an avid, expert nature photographer, and his photographs have been a staple at our annual TMTL event. His favourite charity is CACHA (Canada-Africa Community Health Alliance), with which he has participated in several medical missions to Kamengo, Uganda over the years.

In February 2020 a celebration was held to honour his years of service, contributions to the department and above all his mentorship and friendship to so many over a long and successful career.
NEW FACULTY AND STAFF

Dr. Craig Simpson, MD, CCFP(EM)

Dr. Craig Simpson joined the Department of Emergency Medicine on July 1, 2019 as an Assistant Professor.

Dr. Simpson attended medical school at Queen’s University graduating in 2007. After completing his training in Family Medicine and his CFPC-EM year at Queen’s he worked in the LACGH Emergency Department for six years while contributing to the clinical teaching of Queen’s Family Medicine residents. After a two-year stint in Toronto, working with the St. Michael’s Emergency Medicine group, he moved to Barrie’s Royal Victoria Hospital all the while maintaining his role in teaching residents with the University of Toronto Family Medicine program. Dr. Simpson continues his strong interest in medical education and currently teaches at Queen’s University.

Dr. Simpson has a keen interest in rural and remote medicine and has worked in many of the smallest emergency departments in his role with Health Force Ontario providing locum coverage across all of Ontario.

When he is not at work Dr. Simpson enjoys golfing, cycling and spending time with his family.

Ms. Catie Chamberlain

Administrative Assistant

Catie graduated with distinction, from St. Lawrence College Office Administration Medical & Legal studies in 2015. During her time at St. Lawrence college she completed 3 workplace placements at: Queen’s University: School of Nursing, Ministry of Health and long Term care, and Lifemark. While at St. Lawrence College Catie also had a student employment as an administrative assistant in the school of Justice Studies and Applied Arts. After graduating Catie was hired on a Lifemark and has been working there as a customer Service Representative for the last 5 years.

Growing up in Kingston Catie knows that there are lots of fun things to do in the city. She enjoys yearly going to Artfest Kingston, Taste of Kingston, Ribfest, The Women’s Art festival, and Poutine Fest. In her spare time Catie enjoys doing escape rooms with her family, baking new recipes and cuddling with her cat.

Ms. Tiffany Roy

Finance Coordinator and Undergraduate Assistant

Tiffany joined the department in June of 2019 as the Finance & Administrative Coordinator. Before joining the team she worked in the Athletics & Recreation department for Queen’s University where she worked for 6 years and held various titles such as Strategic Procurement Officer and Coordinator of Accounts Receivable & Cash Operations.

She has worked in the finance industry for 10+ years and is currently registered as a student with Ontario Chartered Professional Accountants and working towards earning her CPA designation.

On a personal level, she is married and a mother to 3 kids. She enjoys spending her free time travelling and doing anything that gets her outside. Often you will find her gardening, hiking, playing soccer, or lounging around the pool.
IN MEMORIAM

Barbara Tatham MD, CCFP(EM)

Barbara Tatham joined our Emergency Medicine family on July 1st, 2016 when she started her CCFP-EM residency at Queen’s. Having done her Health Sciences BSc, Physiotherapy MSc, MD and Family Medicine training all at McMaster University, it was a long shot that she would choose Queen’s for her CCFP-EM year. Barb was an incredibly positive and engaging individual. Her maturity, clarity of thought and genuine kind-heartedness were immediately apparent and striking upon meeting her. She clearly would have been high on every school’s recruit list. When asked later why she chose Queen’s for her EM training, she said she had decided immediately after her Queen’s CaRMS day. After meeting our people and seeing the warmth and passion they conveyed about our department and residency programs, she knew that Queen’s was where she wanted to come. Lucky us!

Barb was an accomplished and driven physician. After completing her CCFP-EM residency with us at Queen’s, she went to the University of Western Ontario to complete a POCUS fellowship. During this time, she co-founded Emergency Medicine Global, a non-profit organization that would provide POCUS equipment, education and training to resource limited environments in Tanzania. She was also hired as an academic emergency physician at the Toronto Western Hospital and was to serve as their POCUS lead after the completion of her POCUS fellowship at Western. Tragically, near the end of her fellowship, Barb was diagnosed with a terrible metastatic sarcoma of her skull, which stopped her from ever beginning her emergency medicine practice in Toronto.

Despite a very challenging battle with cancer, Barbara maintained a positive outlook and openly shared her experience with family and friends. In true Barb fashion, she used her experience as both a physician and patient with cancer navigating the healthcare system, as an opportunity to help us all become better and more compassionate caregivers. Barb was a natural academic, speaker and advocate, and dedicated many of her remaining days studying and teaching about physician compassion to medical learners and practicing physicians through lectures and podcasts.

Barbara’s courage, passion and eloquent messaging throughout her journey were truly inspirational. She continuously spread joy, hope, humour and love to the people around her. She encouraged all of us to be the best we could be, to always live with intention, and to live happy and healthy lives. She was an extraordinary individual, physician and medical educator who left an incredible legacy.

We are so fortunate to have had Barbara Tatham in our lives. She will be missed.

Please listen to the Barbara Tatham Memorial Podcast on Physician Compassion: https://emergencymedicinecases.com/physician-compassion-barbara-tatham/

Please read the CPSO eDialogue article “White Coat to Blue Gown” about Barbara Tatham. https://dialogue.cpso.on.ca/2020/09/white-coat-to-blue-gown/

“At the end of the day people won’t remember what you said or did, they will remember how you made them feel.”

– Maya Angelou

(a favourite quotation shared by Barb).

“Make waves, be kind.”

– Barbara Tatham

Barb with the EM Team at the last Tragically Hip Concert’s First Response Medical Tent
Dr. Heather Murray

Dr. Heather Murray has been named as the recipient of the 2019 Queen’s University Chancellor A. Charles Baillie Teaching Award.

Established in 2003, the Chancellor A. Charles Baillie Teaching Award recognizes undergraduate or graduate or professional teaching that has had an outstanding influence on the quality of student learning at Queen’s University. It is awarded annually for activities that lead to improved learning, including curriculum development, educational leadership, design and delivery of out-of-classroom educational experiences, or classroom teaching and supervision. The Selection Committee comprises past award winners, subject experts, and educational developers. The Selection Committee is charged with responding to the question: Who among our colleagues deserves recognition this year for his or her exceptional efforts to promote student learning?

This award is the most prominent award for teaching offered by the University, and along with the Principal’s Awards for Education (one of which Heather has already received for curriculum development work), is one of the highest honours an educator at this University can receive.

Dr. Louise Rang

Louise Rang has won the Ban Righ Inspiring Women Mentorship award. This award is for a Queen’s University faculty member who has demonstrated mentorship and knowledge-sharing, who has supported or continues to support women in achieving their goals and has inspired a student or students.

Distinguished Preceptor Award CCFP-EM, chosen by the residents.

Dr. Adam Szulewski

Dr. Adam Szulewski received his PhD from Maastricht University School of Health Professions Education Cum Laude Distinction.

W. Ford Connell Award – This award is determined by the graduating class under the Aesculapian Society. This is an annual award established by Squibb Canada Inc. in honour of Dr. W. Ford Connell, for a professor or instructor in the Faculty of Medicine who, in the opinion of the final year medical students, has made the most outstanding contribution to their undergraduate medical education.

Dr. Andrew Reed

Dr. Andrew Reed receives Honorary Inspector of the Ontario Provincial Police.
Dr. Stuart Douglas

Dr. Stuart Douglas, an Emergency Physician and intensivist and new graduate of the Master’s in Quality Improvement and Patient Safety (QIPS) at the Institute of Health Policy, Management and Evaluation, has developed a quality improvement initiative at Kingston Health Sciences Centre that promotes better sleep for patients in the ICU. His project has also won him the Harry and Rose Perlstein Award, presented to a student whose research has the potential to improve health care services for patients in long-term and acute care settings.

Dr. Erin Brennan

Dr. Erin Brennan is awarded the 2019 L.E. Dagnone Emergency Medicine Teaching Award by our graduating residents for excellence in teaching.

Dr. Andrew Hall

Dr. Andrew Hall wins the 2019 CAME – Certificate of Merit which promotes, recognizes and rewards faculty committed to medical education in Canadian medical schools.

Dr. Danielle Blouin

Dr. Danielle Blouin wins best research paper at the World Conference for Medical Education 2019 for Purposes and Models of Quality and Regulation in Medical Education I for Accreditation as Quality Assurance Measures of Effectiveness.

Dr. Joey Newbigging

Dr. Joey Newbigging is the 2019 recipient of the PARO, Clinical Teaching Award. The Clinical Teaching Awards acknowledge the essential role that good clinical teachers play in the training of physicians. Residents are asked to outline the qualities that make their nominee an excellent teacher including patient care, quality of bedside teaching, and interest in trainees’ personal development and well-being.
CLINICAL CARE

Program Medical Director Updates

Terrence O’Brien, MD, CCFP (EM), FRCP C
Director

The KGH Emergency Department continues to offer tertiary care Emergency Medicine and consultant care to the people of the South Eastern Ontario region. The Department has a staff complement of close to 40 specialist Emergency Physicians with subspecialty expertise. Areas of expertise include toxicology, trauma, critical care, medical education, patient simulation, global health, emergency medicine ultrasound (POCUS), resuscitation, emergency medicine research, tactical medicine, EMS, and disaster management.

KGH ED is also the major point of entry to inpatient units at KGH for all specialty and subspecialty services. The KGH trauma program had 291 trauma team activations. The Emergency Department is also the site for the intake of the SE Ontario Regional Stroke program and regional PCI program offered at KGH.

Patient volumes continue to increase with a significant increase in Mental Health and Addictions presentations. We are working closely with the Department of Psychiatry and our community partners to provide timely, effective and compassionate care for this patient population. We have added a Psychiatry Nurse Navigator and increased Mental Health Social work coverage for our department.

Our department has worked closely with our community to provide care needed for mass gathering events which affect our community and our ability to deliver Emergency Care. These events include Queen’s Homecoming, St. Patrick’s Day and Halloween. During these events we have opened up a Satellite Emergency Department to help deal with the large influx of EMS arrivals and to allow us to continue to provide care to all requiring Emergency Care during these events.

Patient and staff safety has become an increasing concern over the past year with an increase in violent assaults and threats toward our staff and we are working closely with Security and the hospital QIPS program to develop strategies to deal with and prevent these episodes.

We continue to work closely with Hospital Administration, LTC, Public Health and IPAC to deal with the predicted annual influenza season.

Our department has created a QI lead to improve our performance in all clinical aspects of our care model.

We have also instituted an In Situ Simulation program to foster interprofessional learning and QI for our department in the areas of critical care and acute medical emergencies.

“Patient volumes continue to increase with a significant increase in Mental Health and Addictions presentations. We are working closely with the Department of Psychiatry and our community partners to provide timely, effective and compassionate care for this patient population.”
CLINICAL CARE

Relevant Department statistics are presented below:

### Annual Visits to KGH ED and HDH UCC

<table>
<thead>
<tr>
<th>Year</th>
<th>KGH Emergency</th>
<th>HDH Urgent Care</th>
<th>Grand Total</th>
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<tbody>
<tr>
<td>2018</td>
<td>62,257</td>
<td>41,845</td>
<td>104,102</td>
</tr>
<tr>
<td>2019</td>
<td>63,629</td>
<td>42,530</td>
<td>106,159</td>
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### % Age Groupings

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<tr>
<th>Age Group</th>
<th>2018</th>
<th>2019</th>
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<tr>
<td>0 - 18 yrs</td>
<td>14.5%</td>
<td>14.2%</td>
</tr>
<tr>
<td>18 - 64 yrs</td>
<td>62.4%</td>
<td>62.4%</td>
</tr>
<tr>
<td>65 + yrs</td>
<td>23.1%</td>
<td>23.4%</td>
</tr>
<tr>
<td>Grand Total</td>
<td>100%</td>
<td>100%</td>
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### % of Mental Health, Substance Abuse or Other

<table>
<thead>
<tr>
<th>Category</th>
<th>2018</th>
<th>2019</th>
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<tbody>
<tr>
<td>Mental Health</td>
<td>3.7%</td>
<td>3.8%</td>
</tr>
<tr>
<td>Other</td>
<td>94.7%</td>
<td>94.5%</td>
</tr>
<tr>
<td>Substance Abuse</td>
<td>1.6%</td>
<td>1.7%</td>
</tr>
<tr>
<td>Grand Total</td>
<td>100%</td>
<td>100%</td>
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### Average LOS from Registration in ED, or UCC, to Time Left ED

<table>
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<th>Year</th>
<th>Average Length of Stay</th>
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<tbody>
<tr>
<td>2018</td>
<td>4.5</td>
</tr>
<tr>
<td>2019</td>
<td>4.9</td>
</tr>
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### CTAS 1 - 5

<table>
<thead>
<tr>
<th>Year</th>
<th>CTAS 1</th>
<th>CTAS 2</th>
<th>CTAS 3</th>
<th>CTAS 4</th>
<th>CTAS 5</th>
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<tbody>
<tr>
<td>2018</td>
<td>2</td>
<td>20</td>
<td>59</td>
<td>58</td>
<td>6</td>
</tr>
<tr>
<td>KGH Emergency</td>
<td>2</td>
<td>33</td>
<td>89</td>
<td>43</td>
<td>4</td>
</tr>
<tr>
<td>HDH Urgent Care</td>
<td>1</td>
<td>6</td>
<td>28</td>
<td>73</td>
<td>7</td>
</tr>
<tr>
<td>2019</td>
<td>2</td>
<td>21</td>
<td>60</td>
<td>54</td>
<td>9</td>
</tr>
<tr>
<td>KGH Emergency</td>
<td>2</td>
<td>35</td>
<td>89</td>
<td>41</td>
<td>6</td>
</tr>
<tr>
<td>HDH Urgent Care</td>
<td>2</td>
<td>8</td>
<td>31</td>
<td>66</td>
<td>11</td>
</tr>
<tr>
<td>Grand Total</td>
<td>2</td>
<td>20</td>
<td>61</td>
<td>43</td>
<td>15</td>
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Our multidisciplinary staff from every department at KGH works incredibly hard day and night every day of the year to offer excellent care to all of our patients.
CLINICAL CARE

Karen Graham, MD, CCFP (EM), FCFP
Director

Program Medical Director Updates
Hotel Dieu Hospital Urgent Care Centre 2019

Our Hotel Dieu Hospital Urgent Care Centre remains one of the highest volume and highest acuity Urgent Care centres in the province.

Overall Volume
(increased by 5.2% in past 5 years)

Pt Volume >65yrs
(10 year trend)

Transfer Volume

<table>
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<th>7%</th>
<th>34%</th>
<th>3.5%</th>
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In 2019:

- We served 43,234 patients
- Our volume has increased approximately 7% in the past 5 years
- 45% of our patients were triaged as CTAS level 1-3 (assigned as Requiring Resuscitation, Emergent or Urgent)

We continue to observe a constant increase in patient complexity:

- Elderly presentations (>65 years) over the past 10 year period have increased by 34%* See graph on next page
- Rising CTAS levels
- 3.5% of cases annually are transferred to KGH, generally for admission
CLINICAL CARE

Volumes by age group seen at Hotel Dieu Hospital Urgent care Centre 2010-2019

Our urgent care centre continues to proudly serve a diverse population. We work in close partnership with our community and hospital partners to deliver excellent patient care despite the many challenges facing health care today. We look forward to meeting the challenge of providing outstanding care in an era of limited fiscal resources.
Emergency Medicine Training Programs: FRCPC

Jaelyn Caudle, BScOT, MD, EMDM, FRCPC
Director

2019 was another hugely successful year for the FRCP Residency Program.

We continued our tradition of innovation by becoming the first emergency medicine training program to introduce a full curriculum dedicated to personal wellness and professional sustainability. Thanks to Louise Rang and countless others for their work in bringing year one of this amazing curriculum to fruition. We look forward to rolling out year 2 in the upcoming academic calendar.

The transition of Queen’s EM to a full CBME model continues. With now three years of ‘true’ CBME residents in our residency program. CBME is allowing us opportunities to tailor learning experiences for our residents and is opening up new avenues for required training experiences. Together with the Academic Advisors (Erin Brennan, Gord Jones, Jim Landine, Terry O’Brien and Mike McDonnell), Andrew Hall and I continue to work on developing a seamless assessment, evaluation and promotion process for our residents so critical for the success of CBME.

Thank you all for your ongoing dedication and support to our residency program!

“With now three years of ‘true’ CBME residents in our residency program. CBME is allowing us opportunities to tailor learning experiences for our residents and is opening up new avenues for required training experiences.”
We had another successful year, and with the newly added Cornwall return-of-service program, our biggest cohort for some time... ten residents! Despite the curriculum and clinical challenges of COVID-19, our residents had a successful year and are ready for independent practice. They have all secured jobs or fellowships upon graduation. Three residents are pursuing further fellowship training (Queen’s Resuscitation and Reanimation Fellowship (2) and Ottawa’s POCUS Fellowship (1)), and the others are joining EDs in Belleville, Brockville, Cornwall, Credit Valley Mississaugua, Guelph, Kitchener-Waterloo and Saint John, New Brunswick. The footprint of Queen’s CCFP-EM grads continues to grow across the country!

One of the most significant changes to our curriculum this year was the introduction of our horizontal airway curriculum. This simulation curriculum emphasizes deliberate practice of part-task airway skills, mental rehearsal, and the application of these skills into increasingly complex airway scenarios. Although objective assessment of the impact of the curriculum is pending, it was extremely well received by residents, with many faculty members noticing a significant improvement in the residents’ airway skills compared to previous years. Special thanks to Drs. Fil Gilic, Bob McGraw and Elizabeth Blackmore for their enormous efforts in creating this outstanding, and critical, learning experience for residents. Going forward we will be fine-tuning the curriculum, recruiting more faculty airway instructors and expanding to include some FRCP-EM residents.

This year we had our first two residents begin the Cornwall return-of-service program. Cornwall rotations in emergency medicine, orthopedics, anaesthesia and ICU were created and were successful in providing excellent teaching and learning opportunities for residents. It is hoped that even when the Cornwall return-of-service initiative is complete (2022), that these rotations could be recruited for use by the regular program stream.

Looking ahead to 2020-21, we will again have ten residents in the program... our typical eight Ministry sponsored residents, one Cornwall return-of-service resident, and a National Defence re-entry resident. Our program is near capacity with learners, and we have been fortunate to continue to be able to establish and nurture existing ties with our community hospital partners to give our residents rich learning experiences.

I have enormous gratitude and appreciation for all of the Queen’s DEM and community hospital faculty and teachers for their continued commitment to our program and their teaching and mentorship of our residents. It would be impossible to train such a large cohort of residents at Queen’s were it not for the generous contribution of time and effort from such talented faculty in our emergency medicine community. Thank you!
Global Emergency Medicine Fellowship Updates

The Global Emergency Medicine Fellowship is pleased to have had its inaugural graduation with Dr. Amanda Collier completing her training at the end of July.

In the final months of her training, Dr. Collier represented the Fellowship and the Department at a site visit to Haramaya University in Harar, Ethiopia (along with Dr. Messenger). After Fellowship graduation, Dr. Collier became a SEAMO Research Fellow and in that capacity, has continued to foster the EM collaboration between Queen’s and Haramaya, including securing a Queen’s International Fund grant ($10,000) to conduct an EM needs assessment at Haramaya. Dr. Collier also completed the coursework for her MPH degree at John Hopkins Bloomberg School of Public Health. Congratulations, Amanda!

In 2019, we were pleased to welcome our second Fellow to the program with Dr. Jodie Pritchard joining us from her FRCPC EM residency program at McMaster. After getting settled into Kingston, Dr. Pritchard went to Portland to complete the Hostile Environment and Humanitarian Principles training course with Medical Teams International. Following that she spent two months working in Africa including one month at HEAL Africa Hospital in eastern Democratic Republic of Congo teaching basic EM skills. This was followed by one month working clinically in northern Uganda with Medical Teams International, where she provided mentorship to local health staff and helped to care for displaced South Sudanese families in several refugee camps. Dr. Pritchard is also supporting the Haramaya project and hopes to be actively involved in this collaboration as it moves forward.

In addition to their other activities, both Dr. Collier and Dr. Pritchard conducted research over the year, investigating pre-departure training and post-departure debriefing practices for Canadian FRCPC EM trainees who complete global health electives. This involved surveying both residents and Program Directors as well as completing a desk review of available global health resources at various universities. An abstract of the findings has been submitted to CAEP and the resulting manuscript is soon to be submitted for peer review.

The Global EM Fellowship continues to actively recruit trainees into the program including both FRCPC residents (who will join our resident clinical schedule) as well as graduates who have completed their Royal College training (and will work as attending physicians). The Fellowship is also in the process of formalizing its evaluation process and has applied to become a Society of Academic Emergency Medicine (SAEM)-approved Global EM training program.
We’ve had another successful year in the Resuscitation Fellowship thanks to our fellows’ hard work and the dedication of our faculty.

Congratulations to our 2019 graduates Mohamad and Ali! Special thanks to Steve, Steph, Dan, Dave, Aaron, Heather W, Chris, Bob, Sharleen, Andrew, Tim, Erin and Marco for leading sessions this year. From outside our department, we’ve been fortunate to host Peggy Dejong (cardiology), Anupam Seghal and Bob Connelly (pediatrics), Troy Neufeld (community EM) who have also presented sessions for the fellows. Finally, special thanks to alumnus Ali Tafti (winner of last year’s golden laryngoscope award) who came back to teach this year as well.

A few highlights from this year:

• The newly created longitudinal joint resuscitation/cardiology mini-curriculum continues to be successful. Based on positive feedback from both groups, we have extended these sessions and plan to run them during the fall of each year.

• We have transitioned our resuscitation ultrasound curriculum from a longitudinal course to a bootcamp format. Fellows will now receive the CPoCUS Resus Independent Practitioner Certification and have the opportunity to come back as instructors during a subsequent bootcamp.

• We’ve successfully implemented a new longitudinal trauma radiology course sourced from an online platform this year. This has been well received by the group and will be included in the curriculum next year as well.

• We’ve transitioned our assessment structure to the entrustment-based platform used in the FRCP program. Hopefully, this will make post-shift assessment more streamlined and efficient for our faculty group.
The Department of Emergency Medicine continues to be an active participant in Undergraduate Medical Education at Queen’s. This past year, our faculty members have again continued to be involved in multiple aspects of UGME including Clinical Skills, Clinical Reasoning, Resuscitation Rounds, Facilitated Small Group Learning, Critical Enquiry, and Case of the Week. We have also participated in Admissions file reviews and interviews and invigilated OSCE exams for UGME.

The Emergency Medicine core rotation is highly rated by the clerks. They consistently feedback that the faculty is very approachable and supportive. They appreciate all the teaching that happens on shift and wish they had more time in the ER. They also love the teaching shift where they get one on one time with faculty that observe them during their assessment of a patient and provide immediate feedback. UGME is trying to recruit more regional sites for EM to allow a few more students to do their EM core block away from KHSC.

The elective students program continues to be very popular, and the quality of the students we have been able to host has been great in the past year. EM continues to be in high demand for elective students and we are attempting to accommodate as many students as possible with some novel scheduling – including scheduling some keen learners over the holiday blocks.

The shift to CMBE evaluations has gone quite smoothly. The clerks really appreciate and value the daily feedback they get. In recent months, we have adjusted the clerk schedule to offload the Hotel Dieu and I am keeping in touch with the clerks to ensure that they continue to get exposure to procedures such as casting and suturing.

I want to thank everyone for their continued support of the department’s UGME activities.
Simulation-Based Medical Education Update

2019 was another great year for #simulation within our department!

At the postgraduate education level, our longitudinal simulation rounds thrive on the energy of our residents and have evolved in response to their needs. We can be confident that we continue to set the national standard for the integration of simulation into postgraduate medical education training.

In-situ simulation is becoming part of the culture of our department, with Dr. Rocca leading this effort. The departmental support for in-situ simulation signals the value of interprofessional education and the importance of these sessions for improving our clinical work environment. Current projects aim to leverage in-situ simulation for quality improvement initiatives (ask Drs. Stu Douglas and/or Sharleen Hoffe) and to practice new clinical pathways (i.e. Dr. Evans’ REBOA implementation).

Scholarship related to simulation within our department continues to grow as well; although there are too many recent publications to report here, topics include a description of curricular content for postgraduate EM training, the use of wearable technologies to individualize simulation-based learning, comparing assessment in the simulation lab to the workplace, and a consensus paper on priorities for simulation-based research in EM in Canada.

Yours in simulation,
Tim

“We can be confident that we continue to set the national standard for the integration of simulation into postgraduate medical education training.”
It is a pleasure to report on our department’s research program for 2019. With 80 peer reviewed publications and 54 abstract presentations it was truly an exceptional year of productivity in all our core programs: clinical, educational, resuscitation and global health research.

Queen’s University Emergency Medicine researchers have continued to earn their international reputation as leaders in toxicology, clinical decision rules, resuscitation, cardiac arrest survival, global health, simulation, public health, physician wellness, point of care ultrasound, and competency based education. I would encourage everyone to read through the appendix to this report to see the outstanding work done by our researchers. The list reflects the tremendous amount of hard work, as well as the support of the research program by our entire departmental membership.
Resident Research Director Report

Melanie Walker, PhD
Director

This past year proved to be another very busy one in our research program.

Our faculty members, residents and medical students continue to work on a myriad of research projects in clinical research, medical education, quality improvement and global health. Our foundational research series is now in its third iteration and blends fundamental clinical epidemiology skills with clinical reasoning in nine cardinal emergency medicine presentations. An abbreviated e-version of this research series was developed and launched for the CCFP-EMs this past year with good success. Both the R2s and CCFP EMs are working on their CAT project proposals for presentation at the upcoming RJ Brison Research Day on April 1, 2020. Many of the R2s are using the CAT project this year as a launch pad to their scholarly project – a requirement in the core of discipline stage of training. At this year’s Research Day the oral presentations will focus on completed or near completed research projects led by our faculty and/or residents and we will be hosting a poster session to showcase additional ongoing research in the department including the CAT projects. In addition, for those interested in a peer reviewed publication, both CanadiEM and CJEM have opportunities for residents to publish critical appraisals on topical emergency medical articles.

Lastly, if you’re thinking about starting a research project please be sure to reach out to me in the early phases so we can ensure you’re off to a good start!
Profiles in Research

Kieran Moore, MD, CCFP(EM), FCFP, MPLc, MPH, MSc. (DM), DTM&H, FRCPC

Dr. Kieran Moore has been a member of Queen’s Department of Emergency Medicine since 2004. He is now the Medical Officer of Health/CEO for the Kingston, Frontenac, Lennox and Addington (KFL&A) Public Health unit, an agency with over 200 staff and 100 volunteers that delivers public health programs and services to nearly 200,000 people. He is a Professor of Family and Emergency Medicine at Queen’s University and the director for the Public Health & Preventive Medicine Residency Program. Dr. Moore received his MD from the University of Ottawa and specialty certification in Family and Emergency Medicine from the College of Family Physicians of Canada. He has Masters degrees in Disaster Medicine, Public Health, and Physician Leadership and Diplomas in Sports Medicine, Tropical Medicine & Hygiene, and Humanitarian Assistance. Finally, he completed a Canadian Royal College of Physicians and Surgeons Fellowship in Public Health & Preventive Medicine at Queen’s University.

Dr. Moore has extensive experience in surveillance systems for outbreak detection, public health, pre-hospital care, and multidisciplinary research projects. He has lead the project called Acute Care Enhanced Surveillance (ACES) and Surge Monitor tool which electronically links over 150 hospitals in Ontario to provide real time situational awareness for any public health threat. Further tools include real time influenza like illness surveillance call ILI mapper. Further spatial tools and analytics for emergency planning and response can be found at www.kflaphi.ca. This work was based on his thesis work on methods to detect bioterrorism and emerging infectious disease threats through surveillance partnerships with the acute care system.

He has championed the need for a national Lyme disease surveillance network to government, which resulted in a national framework on Lyme disease and a recent funding opportunity by the Safe Environment Directorate of Health Canada. He authored the KFL&A Action Plan on Lyme, participates in the Health Quality Ontario working group on Lyme, serves as an Ministry of Health and Long-Term Care (MOHLTC) consultant and presented at the Conference to develop a Federal Framework on Lyme disease.

Dr. Moore is the Nominated Principal Applicant on the 4 Million dollar CIHR approved grant and serves as the Networks Director. As Network Director he will provide oversight and direction for all Network activities. He will work with KFL&A Public Health and other institutions to develop and maintain a Network web portal as well as a central clinical electronic medical record and associated biobank. He will also work closely with Queen’s University advancement to ensure network longevity.

Websites highlighting his team’s work include:

- www.kflaphi.ca
- http://mapper.kflaphi.ca/ilimapper/
- https://dashboard.kflaphi.ca/
- www.clydrn.ca
Profiles in Research

Erin Brennan, BHSC, MD, MMed, FRCPC

Dr. Brennan completed her medical school in 2010 at Queen’s University where she stayed for residency in Emergency Medicine from 2010-2015. During this time she began a Master’s in Medical Education at the University of Dundee, which she completed in 2017. The focus of her Master’s thesis was Feedback and Debriefing in Simulation Based Medical Education, specifically in CPR training. Since becoming a staff physician at KHSC she has continued research in novel approaches to CPR and resuscitation training. Her work has incorporated principles of deliberate practice and spaced repetition using real-time feedback, near-peer teaching, and autonomous training models.

She currently holds a PSI New Investigators grant to implement and evaluate a responsive and personalized CPR training program for nursing staff working in critical care areas of Kingston Health Sciences Centre. She is also working on adapting an automated CPR training program for medical students at Queen’s.

Veronica Harris-McAllister, M.Sc
Lyme Network Manager

Veronica Harris-McAllister is the Network Manager for the Canadian Lyme Disease Research Network (CLyDRN). Ms. Harris-McAllister has over 25 years of experience working in clinical, pharmaceutical, and administrative research. Prior to joining the Network, Ms. Harris-McAllister was the Director of Health Sciences Research (2017-2020) and Manager of Health Sciences Research (2008-2017) at the Kingston General Health Research Institute and Kingston Health Sciences Centre. She has also worked in the Respiratory Investigation Unit at Queen’s University (2004-2008) and at the University of Ottawa Heart Institute in the Prevention and Rehabilitation Centre (2001-2004).

Ms. Harris-McAllister is a graduate of Queen’s University (BSc, Biochemistry), University of New Brunswick (BPHE, Sports Science), and East Stroudsburg University (MSc, Cardiac Rehabilitation & Exercise Sciences).
Departmental Life
SOCIAL EVENTS

TMTL (There's More to Life...)

Drs. Karen Graham and Louise Rang created this event six years ago, to try and find a way to make November a little brighter. All ED attending and residents are invited to give a talk of their choosing, with only 2 conditions:

• It has to be 15 min or less, and
• It must have nothing to do with medicine itself.

The goal of the afternoon is to provide some time for us to connect without talking about the latest shoulder reduction technique, or an obscure ECG finding from last week. It gives us a chance to learn about one another and our (often slightly obscure) and always interesting side passions.

The theme this year was inspiration. As usual we had a wide-ranging array of topics from an encounter with a Syrian refugee, the South African concept “now” vs “Just now”, awesome sea creatures, why cross fit is not a cult, family secrets, all the way to travel pictures of Italy.

As part of the day, we always ask the group to submit some thoughts on what they love about working here, and these are some of the submissions:

“A group that snacks together stays together”

“Walking through the double doors of the ED feels like walking home. There are familiar sounds and smells, but most of all there are familiar faces that look forward to seeing. While we sometimes save and often affect patients’ lives we always gently shape each other’s lives. We are a united, stalwart constant amongst the ever changing, wondrous, controlled chaos we have all chosen to call a home away from home.”

We are more than just coworkers. We are colleagues and friends partners in the adversities of the ED standing strong and unified. We take care of each other, and lean on each other, because we are all vulnerable and imperfect, but trying to do our best for our patients and the community.

Resident Retreat

In the spring of each year and to celebrate the end of the academic year, the program holds its annual Resident Retreat. The retreat is a getaway full of camaraderie and fun. The morning session consists of group discussions, residents work on team-building, teaching skills, and ways to maximize educational opportunities. The afternoon is spent in the great outdoors!
BMC

The Big Mac Challenge has been one of the major social/team building events in our Department/Residency program since 2001 (we think). The BMC originated by accident and the legend shall remain in the folklore of our department until eternity.

Many years ago in the year 2001 before computers or ED Ultrasound were invented, Bob Mcgraw, Max Montalvo and Terry O’Brien embarked on an epic bike ride to Gananoque on a cold, gray, blustery day in early November. Max had been in peak cycling shape that year and was dressed in his signature Zebra Bike riding outfit (white zebra shorts, Jersey, arm warmers and helmet… seriously and little wonder people tried to run us off the road so often back then). Bob and I were in basic functional bike gear.

Max had been in great cycling shape during the summer but had been resting since August. Bob and I had still been keeping up a bit of training leading up to the ride.

The wind was at our back (35k per hour to Gananoque) and as we arrived feeling great. In Gananoque Bob said “guys let’s stop at MacDonald’s – I need a burger”. We left our bikes outside and had a round of supersized Big Mac Meals outside. We were voraciously hungry and literally inhaled the meals. Needless to say we were getting a bit chilly sitting outside in the 9°C temperature and Bob piped up – “I’m getting cold, let’s go.” Mas said he didn’t feel to well but we headed out. Bob took of like a scalded cat as he was so cold and we decided to let him go back alone as Max wasn’t feeling great. I was freezing as well but Max was cold, very weak and had gut issues. I pulled Max back to Kingston into a big headwind and Bob arrived back close to an hour before we did and had a warm shower and a nap by the time we arrived.

This story enthralled all of our residents so much that the BMC gradually evolved over the years to the extravaganza it is today. The challenge took many forms in the early years and there were some major brave painful rides by many in our group – namely Dave Messenger, Heather White, Evan Russell and Jim Landine. Some of the suffering has involved major life threatening chafing, Rhabdo, vomiting, crashes and some arrhythmias. The race gone through multiple phases and refinements to its current form.

We are proud to use this event as a fundraiser for UHKF, in support of ED.

Summer Party

The summer party is a time to celebrate with family and friends, welcome our incoming residents and congratulate the BMC winners.
RESEARCH GRANTS AND PUBLICATIONS

Department of Emergency Medicine’s Research Grants

Funded


2. Gender-based inequalities in adolescent mental health in Canada, $ 497,250.00, Operating, Canadian Institutes of Health Research, 4-2019 / 3-2023. Pickett W, Michaelson V, Phillips S, McIsaac M, Davison V, Steeves V.

3. Investigating food insecurity, poverty, and adolescent mental and physical health in high- and low-income countries, $ 100,000.00, Operating, Canadian Institutes of Health Research, 4-2019 / 3-2020. Elgar F, Pickett W, et al.


8. Neighbours Saving Neighbours: Planning a Community Volunteer Resuscitation Program For Victims of Out-of-Hospital Cardiac Arrest in Canada. Planning and Dissemination Grant – Institute Community Support, $ 14,992.00, Operating, Canadian Institutes of Health Research (CIHR).

9. Queen’s University, Royal College of Physicians and Surgeons of Canada, Haramaya University Partnership, $ 20,000.00, Operating, Queen’s International Fund, 3-2019. Andrew Hall, Anna Oswald, Lisa Gorman, Alex Skutovich, Elaine Van Melle, Jason Frank.

10. Queen Elizabeth Scholars: Advancing Health of Last Mile Populations: QE Scholars in Research and Practice, $ 300,000.00, Operating, Universities Canada, 11-2019. Susan Bartels, Colleen Davison, Heather Aldersey, Eva Purkey.


12. CBME Program Evaluation in Postgraduate Medical Education, $ 50,000.00, Operating, PGME Special Bursary Grant (Fall), 8-2019. Dan Howes, Adam Szulewski, Paul Hungler, Ali Etemad, Dirk Rodenburg.

13. Resident Progress Decisions: Evaluating the Fidelity and Integrity of Competence Committee Implementation in Canadian Residency Training Programs, $ 18,846.00, Operating, RCPSC Education Grant, 2-2019. Warren Cheung, Andrew Hall, Anna Oswald, Lisa Gorman, Alex Skutovich, Elaine Van Melle, Jason Frank.

14. Perspectives, Attitudes and Beliefs about Simulation for Assessment, $ 4,300.00, Operating, Queen’s University Center for Teaching and Learning Grant, 3-2019. Andrew Hall, Melanie Walker, James Ahlin, Kyla Caners, Mike O’Brien.


20. Age-adjusted D-dimer cutoff levels to rule out deep vein thrombosis (The Adjust DVT study), $ 188,628.00, Operating, Heart and Stroke Foundation Canada, 4-2019 / 3-2021. Colin Bell.


22. Centre for the Future of Simulation, $ 220,000.00, Operating, Joule, 12-2019 / 12-2020, Daniel Howes.


25. CBME Program Evaluation in the Department of Surgery, $ 15,000.00, Operating, SEAMO Innovation Grant, 6-2019. Payne D, Dagnone JD, McEwen L, Bardana D, Jalink D.
RESEARCH GRANTS AND PUBLICATIONS

26. Creating a Coaching Culture in Postgraduate Medicine, $11,585.00, Operating, Royal College of Physicians & Surgeons of Canada, 4-2019. Jessica Trier, Jennifer Tunmidge, Dagnow JD, Cote J.


28. Needs Assessment for new Emergency Medicine Program in Ethiopia, $10,000.00, Operating, Queen’s, 7-2019. Amanda Collier and Susan Bartels.

29. ast Mile Research Collaboration, $30,000.00, Operating, Queen’s-Dartmouth / Matariki, 7-2019. Collen Davison, Lisa Adams, Eva Purkey, Heather Aldersey, Karen Yeates.

30. A National Research Network on Lyme Disease, $3,990,966.00, Operating, Canadian Institutes of Health Research (CIHR), 9-2019. Moore KM.

Publications

Chapters


Complete Books


Editorials

1. Murray H. Quality Standards for early pregnancy loss, 2-2019, Health Quality Ontario


Non-Peer-Reviewed Articles


Peer-Reviewed Abstracts


10. Blouin D. Accreditation as Quality Assurance. AMEE, Vienna, Austria.


27. Dag none JD, Hussain A, Flynn L, Stockley D. Building relationships and fostering community – The Transition to Competency Based Medical Education: Results from a 3 Year Longitudinal Study. ICRE. Ottawa, ON. 2019.


31. Van Wylick R, Dag none JD, Stockley D. Developing academic advisors and competence committee member competencies: A grassroots community approach to Faculty Development. CCME. Niagara Falls, ON. 2019.

32. Weersink K, Hall J, Dag none JD. Resident Leadership in the Co-Production of CBME. CCME. Niagara Falls, ON. 2019.

33. Dag none JD, Chan M-K, Meschino D, McEwen L. Managing Change in Medical Education. CCME. Niagara Falls, ON. 2019.


RESEARCH GRANTS AND PUBLICATIONS


Peer-Reviewed Articles


35. Ahlin J, Hall AK. Great Evidence in Medical Education. CAEP (GEMeS). https://caep.ca/em-community/academic-section/education-committee/gemes/
RESEARCH GRANTS AND PUBLICATIONS


55. Leung AK, Lorlichio D, Brison RJ, Graham K. Perspectives of ambulatory patients visiting the emergency department during the Christmas and New Year holiday period: Descriptive survey. Canadian family physician Medecin de famille canadien. 65(7):e305-e310.


RESEARCH GRANTS AND PUBLICATIONS


