

# CHAU PHAM, MD, FRCPC-EM, MBA

## Education Credentials

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2016 – 2018	<b>Ultrasound Leadership Academy Fellowship (with Honours)</b> On-line intensive ultrasound education with one-on-one mentoring and in-conference program <a href="http://www.ultrasoundleadershipacademy.com/course/">http://www.ultrasoundleadershipacademy.com/course/</a>
2008 - 2013	<b>Master of Business Administration (MBA) in Health Care Administration Awarded with Distinction</b> Dean's Honour Roll Asper School of Business Faculty of Management, University of Manitoba
2005 - 2010	<b>Fellow of the Royal College of Physicians and Surgeons of Canada</b> Emergency Medicine, FRCPC  <b>Royal College Emergency Medicine Residency</b> Faculty of Medicine, University of Manitoba
2001 - 2005	<b>Doctor of Medicine</b> Faculty of Medicine, University of Manitoba
2000 - 2001	<b>Master of Science Program</b> Cardiovascular Sciences, St. Boniface Hospital Research Centre University of Manitoba
1996 - 2000	<b>Bachelor of Science with Distinction</b> Dean's Honour Roll University of Manitoba Major: Microbiology
1993 - 1996	<b>Grade 12 Diploma Magna Cum Laude</b> Fort Richmond Collegiate, Winnipeg

## Licensure

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2010	Specialist Certificate, Emergency Medicine, Royal College of Physicians and Surgeons of Canada
2010	Fellow, Division of Medicine, Royal College of Physicians and Surgeons of Canada

September 2007  
December 2006

General Practice License, College of Physicians and Surgeons of Manitoba  
Licentiate, Medical Council of Canada

## Employment

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2014 – Present	<b>Director of Ultrasound &amp; Director of Professional Sustainability &amp; Wellness</b> Responsible for both post-graduate & CPD ultrasound training Responsible for coordinating sustainable high performance, resident mentorship, and physician wellness Department of Emergency Medicine University of Manitoba
2011 – 2014	<b>Director, Emergency Medicine Residency Ultrasound Program</b> Department of Emergency Medicine University of Manitoba
2010 – Present	<b>ERP Health Sciences Centre</b> Winnipeg Regional Health Authority
2010 – 2016	<b>ERP St. Boniface General Hospital</b> Winnipeg Regional Health Authority
2007 – Present	<b>ACLS Instructor</b> University of Manitoba
2005 – Present	<b>Lecturer in Medicine for Winnipeg Fire Paramedic Service</b> City of Winnipeg
2008 – 2011	<b>ERP Victoria General Hospital</b> Winnipeg Regional Health Authority  <b>ERP Thompson General Hospital</b> Burntwood Regional Health Authority  <b>Staff Physician, Kinsmen Reh-Fit Center</b> Winnipeg, Manitoba
2009	<b>ERP Stanton Hospital Yellowknife, NWT</b> Stanton Territorial Health Authority
2006 – 2008	<b>Intensive Care &amp; Internal Medicine House Medical Officer</b> HSC & St. Boniface General Hospital Department of Internal Medicine Winnipeg, Manitoba

## Faculty & Academic Appointments

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2014 - Present	Director, Section of Ultrasound, Department of Emergency Medicine, University of Manitoba, Faculty of Health Sciences
March 2020	Associate Professor, Department of Emergency Medicine, University of Manitoba, Rady Faculty of Health Sciences
March 2014	Assistant Professor, Department of Emergency Medicine, University of Manitoba, Faculty of Medicine
October 2010 – 2014	Emergency Medicine Post-Graduate Ultrasound Director, Department of Emergency Medicine, University of Manitoba, Faculty of Medicine
October 2010 – Present	Coordinator, High Performance Physician Program, Department of Emergency Medicine, University of Manitoba, Faculty of Medicine
2010 – 2014	Lecturer, Department of Emergency Medicine, University of Manitoba, Faculty of Medicine

## Awards and Honours

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2023	Invited as a guest speaker for the HSC Foundation Radiothon 2023. <a href="https://www.dropbox.com/s/6tiia5h1c34jl8o/HSC%20Radiothon%202023-Dr.%20Chau%20Pham.mp3?dl=0">https://www.dropbox.com/s/6tiia5h1c34jl8o/HSC%20Radiothon%202023-Dr.%20Chau%20Pham.mp3?dl=0</a>
2021	Featured by the Health Sciences Foundation for World Teacher Day. <a href="https://www.facebook.com/hscfdn/posts/4554905767864143">https://www.facebook.com/hscfdn/posts/4554905767864143</a> <a href="https://youtu.be/lbp21PbsALM">https://youtu.be/lbp21PbsALM</a>
2021	Nominated for CAEP's 2021 Physician of the Year Award (Prairies Urban)
2021	Recipient of the Martha Donovan Women's Leadership Award. This award is intended to provide leadership development opportunities for women in the Faculty of Health Sciences. This award will enable the enrolment to the Harvard program for Emerging Women Executives in Healthcare
2021	Interviewed and featured on the podcast for "Heroes in our Midst." <a href="https://heroesinourmidst.ca/podcast/chau-pham/">https://heroesinourmidst.ca/podcast/chau-pham/</a>
2020	Nominated and featured as Women in Emergency Medicine CoVID-19 Heroes by the Canadian Association of Emergency Physicians. <a href="https://caep.ca/wem-women-in-emergency-medicine/covid-profiles/#1601415450693-6fa56d30-612b">https://caep.ca/wem-women-in-emergency-medicine/covid-profiles/#1601415450693-6fa56d30-612b</a>

- 2019 Interviewed by CBC News live as well as a written article to share my life story, my escape as a Vietnamese refugee, and leading our 2019 medical mission on the 40<sup>th</sup> anniversary of Canada's private sponsorship program. [https://www.cbc.ca/news/canada/manitoba/manitoba-doctor-canada-vietnam-grateful-1.5042527?fbclid=IwAR0clmC\\_Z1TUAEAVD1OJBvZ-leiyl5Fhn5BJ8f4yFbKGUIPpcFo2mn8Co4](https://www.cbc.ca/news/canada/manitoba/manitoba-doctor-canada-vietnam-grateful-1.5042527?fbclid=IwAR0clmC_Z1TUAEAVD1OJBvZ-leiyl5Fhn5BJ8f4yFbKGUIPpcFo2mn8Co4)
- 2018 Interviewed by Winnipeg's CJOB Radio Station with Kelly Moore on the utility of PoCUS in the ER.
- 2016 Educator of the Year Award, Department of Emergency Medicine. University of Manitoba
- 2014 University of Manitoba Young Alumni Award for contribution to the profession, community, and the U of M
- 2012 Invited as a guest on Winnipeg's CJOB Radio Station with Dahlia Kurtz to share my life story and the work of Canadians Helping Kids in Vietnam Incorporated (CHKV).
- 2012 Woman of Distinction Award for Voluntarism, Advocacy, & Community Enhancement, YMCA-YWCA Winnipeg
- 2011 Nominated as Most Outstanding Clinician, Clerkship, University of Manitoba Faculty of Medicine Teaching Award
- 2011 Dr. Jack Armstrong Humanitarian Award, Doctors Manitoba
- 2011 Finalist: Future Leaders of Manitoba Award
- 2010 National Resident Leadership Award. Canadian Association of Emergency Physicians (CAEP) FRCPC
- 2009 Best Literature Review: Systematic Review on Thrombolytics in Cardiac Arrest. Emergency Medicine Resident Research Day
- 2003 Soroptimist Foundation of Canada Grant Recipient for Studies in Medicine at the University of Manitoba
- 2001, 2002 Margaret Pope Scholarship in Medicine
- 2001, 2002 Female in Medicine Offering Exceptional Community Leadership. King's Daughters' Scholarship
- 2002 Soroptimist International Fellowship Award. Western Canada Winner for Service to Women Locally, Nationally and Internationally
- 2001 Le Boldus Leadership Award for Local, National and International Leadership in Medicine, University of Manitoba
- 1998 – 2004 Manitoba Youth Serves Scholarship for Community Service

1996 – 1998	Finalist: YTV Awards for Public Service
1998	Keynote Speaker: Canada Trust National Awards Ceremony, Toronto
1996	National Winner: Canada Trust Scholarship for Outstanding Community Leadership presented by Governor-General Jules Leger at Rideau Hall. Top applicant of 2700 from across Canada
1996	Leader of Tomorrow Scholarship, University of Manitoba

## Publications

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### PEER-REVIEWED ARTICLES:

- Pardhan, A. et al, **Pham, C.** *Pregnancy, Childbirth & Parenting as a Physician A commentary on Hanchuk et al. The Evolving Focus on Physician and Surgeon Pregnancy by the Medical Community: Thematic Trends from a Scoping Review" (the "Work"). Academic Medicine Submitted February 2022*
- Peach, M. et al, **Pham, C.** *Does point of care ultrasonography improve diagnostic accuracy in emergency department patients with undifferentiated hypotension? An international randomized controlled trial from the SHOC-ED investigators. CJEM December 2022;*
- McIlveen-Brown, E. et al, **Pham, C.** *Priority Strategies to Improve Gender Equity in Canadian Emergency Medicine: Proceedings from the CAEP 2021 Academic Symposium on Leadership. CJEM January 16, 2022*
- Sheppard, G., **Pham, C.**, Nowack, A., Bischoff, T., and Snider, C. *Towards Gender Equity in Emergency Medicine: A position statement from the CAEP Women in Emergency Medicine Committee. CJEM July 2021; 23(4).*
- Atkinson, P. et al, **Pham, C.** *Does Point of Care Ultrasound Improve Resuscitation Markers in Undifferentiated Hypotension? An International Randomized Controlled Trial from the Sonography in Hypotension and Cardiac Arrest in the Emergency Department (SHoC-ED) Series. Cureus 12(8): e9899. Aug. 20, 2020. DOI 10.7759/cureus.9899*
- Olszynski, P. et al, **Pham, C.** *Ultrasound at the point of care – Grown up and moving out. CJEM 2020; 22(1):1-2.*
- Atkinson, P., et al, **Pham, C.** *Does Point-of-care Ultrasonography Change Emergency department Care Delivered to Hypotensive Patients When Categorized by Shock Type? A Post-Hoc Analysis of an International Randomized Controlled Trial from the SHoC-ED Investigators. Cureus 11(11): e6058. Nov. 3, 2019. DOI 10.7759/cureus.6058*
- Lewis, D., et al, **Pham, C.** *Recommendations for the Use of Point-of-Care Ultrasound (PoCUS) by Emergency Physicians in Canada. CJEM 2019, ID 10-0176*
- Atkinson, P., et al, **Pham, C.** *Does point of care ultrasonography improve clinical outcomes in emergency department patients with undifferentiated hypotension? An international*

randomized controlled trial from the Sonography in Hypotension and Cardiac Arrest in the Emergency Department (SHoC-ED) Investigators. *Annals of Emergency Medicine*, 2018;3:1-12.

- Olszynski, P. on behalf of the CAEP Emergency Ultrasound Committee curriculum working group: **Pham, C.** et al. *The CAEP Emergency Ultrasound Curriculum – Objectives and Recommendations for Implementation in Postgraduate Training: Executive Summary*. CJEM 2018.
- Atkinson, P., et al. on behalf of the International Federation of Emergency Medicine Sonography in Hypotension and Cardiac Arrest working group: **Pham, C.** et al. *International Federation for Emergency Medicine Consensus Statement: Sonography in hypotension and cardiac arrest (SHoC): An international consensus on the use of point of care ultrasound for undifferentiated hypotension and during cardiac arrest*. CJEM 2016.
- Ziesmann, M., Park, J., Unger, B., Kirkpatrick, A., Vergis, A., Logsetty, S., **Pham, C.**, Kirschner, D., and Gillman, L. *Validation of Hand Motion Analysis as an Objective Assessment Tool for the Focused Assessment with Sonography for Trauma (FAST) Examination*. J Trauma Acute Care Surg 2015.
- Ziesmann, M., Park, J., Unger, B., Kirkpatrick, A., Vergis, A., Logsetty, S., **Pham, C.**, Kirschner, D., and Gillman, L. *Validation of the quality of ultrasound imaging and competence (QUICK) score as an objective assessment tool for the FAST examination*. J Trauma Acute Care Surg 2015;78(5).
- Wiss, R., **Pham, C.** et al. (2014). Letter to the Editor regarding *The Changing Landscape of Radiology: Ultrasound Training for Nonradiologists*. *Can Assoc Radiol J* 65 (2014) 287-288.

#### **BOOK CHAPTERS:**

- Botterill, C., Brooks, J., Hussain A., & **Pham, C.** as Contributing Author (Chapter 16) (2014). *Sustainable High Performance: In Health, Medicine and Life*. Premier Printing Ltd.

#### **PUBLISHED ABSTRACTS & POSTER/ORAL PRESENTATIONS**

- Bray, H., et al, **Pham, C.** (2021). *Effects of COVID-19 pandemic on clinical visits for early pregnancy bleeding in Winnipeg, Manitoba, Canada*. AEPU Annual Scientific Meeting November 2021.
- Atkinson, P., et al, **Pham, C.** (2019). *Do point of care ultrasound findings of left ventricular dysfunction predict cardiogenic shock in undifferentiated hypotensive patients?* CAEP Abstract Submitted for CAEP 2020
- Krawchenko-Shawarsky, A., **Pham, C.**, Oliver, Z., & French, C. (2018). MP17: Evaluating the efficacy of the flipped classroom model in postgraduate emergency medicine training. *CJEM*, 20(S1), S46-S46. doi:10.1017/cem. 2018.171 [ORAL PRESENTATION - CAEP]
- Sutherland, K., **Pham, C.**, La Riviere, C., & Weldon, E. (2017). LO21: Mentorship in Canadian emergency medicine residency training programs: A needs assessment. *CJEM*, 19(S1), S34-S34. doi:10.1017/cem.2017.83 [POSTER PRESENTATION – CAEP AND ORAL PRESENTATION - ICRE]

- Atkinson, P., Milne, J., Diegelmann, L., Lamprecht, H., Stander, M., Lussier, D., **Pham, C.**,... Lewis, D. (2017). LO45: Does the use of point of care ultrasonography improve survival in emergency department patients with undifferentiated hypotension? The first Sonography in Hypotension and Cardiac Arrest in the Emergency Department (SHOC-ED1) Study; an international randomized controlled trial. *CJEM*, 19(S1), S43-S43. doi:10.1017/cem.2017.107 [ORAL PRESENTATION - CAEP]
- Taylor, L., Milne, J., Lewis, D., Diegelmann, L., Lamprecht, H., Stander, M., **Pham, C.**, ...Atkinson, P. (2017). LO43: Does point of care ultrasound improve resuscitation markers in emergency department patients with undifferentiated hypotension? The first Sonography in Hypotension and Cardiac Arrest in the Emergency Department (SHOC-ED 1) Study; an international randomized controlled trial. *CJEM*, 19(S1), S42-S42. doi:10.1017/cem.2017.105 [ORAL PRESENTATION - CAEP]
- Lussier, D., **Pham, C.**, Milne, J., Lewis, D., Diegelmann, L., Lamprecht, H., . . . Atkinson, P. (2017). LO44: Initial validation of the core components in the SHoC-Hypotension Protocol. What rates of ultrasound findings are reported in emergency department patients with undifferentiated hypotension? Results from the first Sonography in Hypotension and Cardiac Arrest in the Emergency Department (SHOC-ED1) Study; an international randomized controlled trial. *CJEM*, 19(S1), S42-S43. doi:10.1017/cem.2017.106 [ORAL PRESENTATION - CAEP]
- Peach, M., Milne, J., Lewis, D., Diegelmann, L., Lamprecht, H., Stander, M., **Pham, C.**, . . . Atkinson, P. (2017). LO07: Does point of care ultrasonography improve diagnostic accuracy in emergency department patients with undifferentiated hypotension? The first Sonography in Hypotension and Cardiac Arrest in the Emergency Department (SHOC-ED1) Study; an international randomized controlled trial. *CJEM*, 19(S1), S29-S29. doi:10.1017/cem.2017.69 [ORAL PRESENTATION - CAEP]
- Sytnik, P., Hussain, A., **Pham, C.**, & Brooks, J. (2016). P129: The impact of high performance physician training on resident wellness and clinical performance. *CJEM*, 18(S1), S121-S121. doi:10.1017/cem.2016.303 [ORAL PRESENTATION – ICRE AND POSTER PRESENTATION - CAEP]
- Hrymak, C., & **Pham, C.** (2016). LO090: Introduction of a formalized RUSH (Rapid Ultrasound in Shock) protocol in emergency medicine residency ultrasound training. *CJEM*, 18(S1), S61-S61. doi:10.1017/cem.2016.127 [ORAL PRESENTATION - CAEP]
- Hrymak, C., Weldon, E., & **Pham, C.** (2016). LO092: The educational impact of a formalized RUSH (Rapid Ultrasound in Shock) protocol in emergency medicine residency ultrasound training. *CJEM*, 18(S1), S61-S62. doi:10.1017/cem.2016.129 [POSTER PRESENTATION - CAEP]
- Atkinson, P., Bowra, J., Milne, J., Lambert, M., Jarman, B., Noble, V., **Pham, C.**, . . . Tessaro, M. (2016). LO042: Sonography in Hypotension and Cardiac Arrest (SHoC) - Hypotension: Derivation of an evidence-based consensus algorithm for the integration of point of care ultrasound into resuscitation of hypotensive patients. *CJEM*, 18(S1), S44-S44. doi:10.1017/cem.2016.79 [ORAL PRESENTATION – CAEP]

- Webb, A., Lussier, D., Ngo, M., Klassen, J., Steigerwald, R., & Buchel, A., **Pham, C.** (2016). P102: TeamSTEPPS: Promoting a culture of safety. *CJEM*, 18(S1), S112-S112. doi:10.1017/cem.2016.278 [ORAL PRESENTATION – ICRE (top 5 resident research presentations AND POSTER PRESENTATIONS - CAEP & WEDOC)]
- **Pham, C.**, Brooks, J., Zubert, S., Botterill, C., Hussain, A., Al-Githami, M., Leslie-Toogood, A., & Palatnick, W. (2010). Securing Highly Accomplished Respected Physicians (SHARP). [ORAL PRESENTATION – ICRE]

### **NON-PEER REVIEWED PUBLICATIONS:**

- Lussier, D. & **Pham, C.** *Sonography in Hypotension and Cardiac Arrest: The SHoC Consensus Statement*. CanadiEM – Knowledge Translation, Medical Concepts, April 18, 2017. <https://canadiem.org/sonography-hypotension-cardiac-arrest-shoc-consensus-statement/>
- **Pham, C.** How do you balance your health? Doctors Manitoba Wellness. December 2016. <http://www.docsmbwellness.org/home-slider/how-do-you-balance-your-health-dr-chau-pham/>
- **Pham, C.** *How I Stay Healthy in EM*. Academic Life in Emergency Medicine. May 30, 2015. <http://www.aliem.com/chau-pham-healthy-in-em/>

### **RESEARCH SUPERVISION AND MENTORSHIP:**

2022 – Ongoing

#### **Supervisor**

Isabella Menchetti, University of Ottawa, Ottawa. *Assessing the impact of a novel vertical mentorship program on personal and professional development for women in emergency medicine across Canada.*

2021 – Ongoing

#### **Supervisor**

Ali Almaleki, University of Manitoba, Winnipeg. *Ultrasound Localization to Resuscitate in Arrest – Part 4 (ULTRA4)*. Part of multi-centered study using sonography to guide novel anatomic landmark for area of compression. Primary site is University of Saskatchewan.

2020 – Ongoing

#### **Co-Supervisor**

Darla Palmer, University of Manitoba, Winnipeg. *U of M Inaugural Palliative PoCUS Course: Impact on Clinical Practise*. A pilot Palliative PoCUS course was implemented at the University of Manitoba to Palliative faculty staff. To our knowledge, this was also the first Palliative CPD PoCUS course nationally that focussed on ultrasound-guided procedures for Palliative physicians. A pre-course survey was delivered to the cohort of physicians who attended the course as well as those who did not. A follow-up survey in six months will assess the effect of the PoCUS education from the pilot

course. This information will assess the utility of the course and how Palliative PoCUS impacts their patient care. The findings will add to the paucity of PoCUS literature in Palliative care, thus promoting Palliative PoCUS education across all institutions.

2015 – 2020

**External Advisor and Examiner**

Invited as an external advisor for a Masters Program Thesis Advisory Committee for the Faculty of Graduate Studies, Department of Surgery. Candidate: Dr. Rebecca Whitley. Thesis defense completed on Feb. 25, 2020.

2016 – 2018

**Primary Supervisor**

Adriana Krawchenko-Shawarsky, University of Manitoba, Winnipeg. Flipped Classroom Model: Changing Education in Emergency Medicine.

2015 – 2018

**Primary Supervisor**

David Lussier, University of Manitoba, Winnipeg. *SHoC-ED1 (Sonography in Hypotension and Cardiac Arrest in the Emergency Department)*. A stratified Multi-Centre Randomized Control Trial. Won best DEM resident research award in 2017 & 2018.

2015 – 2018

**Co-Supervisor**

Anne Sutherland, University of Manitoba, Winnipeg. The Impact of a Formal Mentorship Program on the Professional and Personal Development of Emergency Medicine Resident Trainees.

2014 – 2016

**Primary Supervisor**

Carmen Hrymak, University of Manitoba, Winnipeg. The Educational Impact of a Formalized RUSH (Rapid Ultrasound in Shock & Hypotension) Protocol in Emergency Medicine Residency Ultrasound Training.

2014 – 2018

**Primary Supervisor**

Peter Sytnik, University of Manitoba, Winnipeg. The Impact of High Performance Physician Training on Resident Wellness and Clinical Performance. A prospective research study between the Departments of Emergency Medicine & Surgery.

2013 – 2016

**Primary Supervisor**

Aaron Webb, University of Manitoba, Winnipeg. TeamSTEPPS: Promoting a culture of safety.

2013

**Co-Supervisor**

David Kirschner, University of Manitoba, Winnipeg. The development of a Simulation Anatomy Module on Abdominal Procedures in Trauma.

2013

**Co-Supervisor**

Crystal Cheung, University of Manitoba, Winnipeg. *Developing a Mentorship Program for Emergency Medicine CCFP-EM Program*.

## Scholarly Work

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- 2020 **Pham, C.** in collaboration with Sheppard, G, Nowacki, A, et al. CAEP's Women in Emergency Medicine Committee Position Statement towards Gender Equity. Submitted to CAEP Board October 2020 for approval for publication.
- 2020 **Pham, C.** in collaboration with Olszynski, P. et al. Letter to the Editor: *A Multidisciplinary Response to the Canadian Association of Radiologists' Point-Of-Care Ultrasound Position Statement.* CARJ 2020.
- 2019 Bray, H., Gilroy, N., Liu, X., **Pham, C.**, Pymar, H. The effect of changes in medical and surgical therapeutic abortion and expansion of the Early Pregnancy Assessment Clinic on ER visits for first trimester bleeding in Winnipeg, Manitoba. University of Manitoba.
- 2011 – 2014 Williams, J. A., Dong, K. A., Calder, L., **Pham, C.**, Hohl, C. M. Early Parenthood Experience for Emergency Physicians: A needs assessment for national guidelines. CAEP Web Survey Deployment pending data analysis. *University of Alberta.*
- 2012 **Pham, C.** Recruiting a Diverse and Inclusive Learner Population for the Faculty of Medicine. *Admissions' Task Group: Diversity Working Group for the Faculty of Medicine, University of Manitoba.*
- 2011 **Pham, C.** Initiated and created a Proposal for a Formal Emergency Medicine International Elective as part of a New Partnership between the An Giang Provincial Hospital in Vietnam and the Emergency Medicine Department, *University of Manitoba*
- 2010 **Pham, C.** Initiated, created, and delivered a proposal for a formal ultrasound curriculum. *Department of Emergency Medicine Residency Program, University of Manitoba.*
- 2010 **Pham, C.** The Realities of the Diversity Climate within the Faculty of Medicine at the University of Manitoba – A Diversity Audit Survey. *University of Manitoba.*
- 2009 **Pham, C.**, Zarynchanski, R. Systematic Review on Thrombolytics in Cardiac Arrest. *Emergency Medicine Resident Research Day. University of Manitoba.*

## Education & Research Grants

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2022	Rady Faculty of Health Sciences. University of Manitoba. Proposal accepted and approved for \$100,000 for a capital and strategic request for ultrasound equipment and education.
2016 – 2018	Department of Emergency Medicine's Research, Education and Innovation (REdI) Fund (\$10, 000). University of Manitoba. Fellowship with the Ultrasound Leadership Academy.
2015	Gupta Faculty of Kinesiology Seed Funds (\$2100). University of Winnipeg. <i>The Impact of High Performance Physician Training on Resident Wellness and Clinical Performance</i>
2015	Department of Emergency Medicine's Research, Education and Innovation (REdI) Fund (\$10, 000). University of Manitoba. <i>The Impact of High Performance Physician Training on Resident Wellness and Clinical Performance</i>
2008 – 2013	Department of Emergency Medicine's Research, Education and Innovation (REdI) Fund (\$15, 000). University of Manitoba. Degree in Master in Business Administration in Health Care Administration.

## Certifications

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2021	CPoCUS (Canadian Point-of-Care-Ultrasound) Certification as Master Instructor for the UPVA (Ultrasound-Guided Peripheral Vascular Access)
2019	CPoCUS (Canadian Point-of-Care-Ultrasound) Certification as Master Instructor for the Resuscitation, Diagnostic & Musculoskeletal tracks.
2018	CPoCUS (Canadian Point-of-Care-Ultrasound) Certification for Independent Practitioner status for Diagnostic & Musculoskeletal, Brantford, Ontario
2016	CPoCUS (Canadian Point-of-Care-Ultrasound) Certification for Independent Practitioner status for Resuscitation, Winnipeg, Manitoba
2015	CPoCUS Master Instructor for IP-Core
2014	EDE 2 Ultrasound Certification Scanning, Brantford, Ontario
2013	CEUS (Canadian Emergency Ultrasound Society) Certification for Independent Practitioner status for EDE 1, Winnipeg, Manitoba
2013	TeamSTEPPS Master Trainer Certification, St. Boniface Hospital, Manitoba
2011	ACLS Instructor Update Certification, Heart and Stroke Foundation of Canada

2009	PALS Instructor Course, University of Manitoba
2008	PALS Provider Course, University of Manitoba
2006	ATLS Provider Course, University of Manitoba
2006	ACEP-credentialed Independent Practitioner for Emergency Department Ultrasound, University of Manitoba
2005	ACLS Provider Course, Heart and Stroke Foundation of Canada

### **Professional Associations (Provincial, National, & International)**

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2023 – Present	Canadian Association of Emergency Physician (CAE), Nominating Committed
2020 – Present	Canadian Association of Emergency Physician (CAEP), Wellness Committee
2019 – Present	CAEP, Women in Emergency Medicine Committee, Executive Member
2017 – Present	Canadian Point-of-Care Ultrasound Society (CPoCUS), Executive Board Member
2016 – 2021	CAEP, Emergency Ultrasound Committee, Executive Member
2014 – Present	Canadian Point-of-Care Ultrasound Society (formerly known as Canadian Emergency Ultrasound Society), Member
2010 – Present	Royal College of Physicians & Surgeons of Canada
2007 – Present	College of Physicians and Surgeons of Manitoba
2007 – Present	Doctors Manitoba
2005 – Present	The Canadian Medical Protective Association
2015 – Present	The Canadian Medical Association
2005 – Present	Canadian Association of Emergency Physicians
2005 – Present	American College of Emergency Physicians

### **Course Organizer, Instructor & Presenter**

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October 2020	Piloted the first national Palliative CPD PoCUS course with both diagnostic and therapeutic procedures for Palliative faculty staff. University of Manitoba.
October 2019	Piloted the first CPoCUS Ultrasound Guided Peripheral Vascular Access for Emergency Medicine Nurses. University of Manitoba.
May 2019	CAEP 2019, Guest speaker in Diagnostic Imaging Track. Track Chair: Dr. Paul Atkinson. Panel presentations and discussion around key PoCUS articles as well as participated in a PoCUS debate.

	CPoCUS IP-Resuscitation Course, University of Manitoba. First academic institution to certify senior FRCP-EM residents for certification in IP-Resuscitation. CPD course offered to staff physicians (December 2019)
October 2018	Instructor for the very first national Independent Practitioner (IP) Diagnostic & Musculoskeletal Ultrasound certification 3-day course, Brantford, Ontario.
August 2018	Echo-Guided Life Support (EGLS) Course. Invited as an International Master Instructor in ultrasound resuscitation to launch the first EGLS course in Melbourne, Australia
2018 – Present	CPoCUS IP-1 <sup>st</sup> Trimester Obstetrics Ultrasound Course, University of Manitoba  Instructor and course organizer for a Soft Tissue PoCUS Course at EMPAC (Emergency Medicine Prairie Annual Conference), University of Manitoba.
2017 – Present	CPoCUS IP-Core Certification 3-day Course, University of Manitoba. (
2017 – Present	Coordinator and Instructor for the very first Canadian CPoCUS IP-Resuscitation 3-day Bootcamp, University of Manitoba
2016 – Present	Instructor with the Echo Guided Life Support Course, University of Manitoba
April 2016	Guest Speaker on High Performance Physician Program and Sustaining High Performance to the Reh-Fit Centre. Winnipeg
2015 - Present	EDE Instructor for an EDE1 Course, Brantford, Ontario
2015 – 2018	CPoCUS 50 Scans 2-day Course, University of Manitoba.
2015 – Present	Master Instructor for Independent Practitioner Status for the Canadian Point-of-Care Ultrasound Society (formerly known as "Canadian Emergency Ultrasound Society")
2014 – Present	Director, Section of Ultrasound, Department of Emergency Medicine
2011 – Present	Ultrasound Curriculum Director, Emergency Medicine Residents, University of Manitoba
2010 – Present	High Performance Physician Program Coordinator for the Department of Emergency Medicine: <ul style="list-style-type: none"> <li>• Residents &amp; Fellows from Radiology, Vascular Surgery &amp; Gastroenterology, U of M, 2021/22</li> <li>• Palliative Care Faculty Staff Physicians, Department of Family Medicine, June 2019</li> <li>• Residents &amp; Fellows, Cardiac Sciences, U of M, January 2019</li> <li>• Residents, Department of Internal Medicine, U of M, September 2018</li> <li>• Faculty Staff Physicians, Department of Pediatrics, U of M, March 2018</li> <li>• Residents, Department of Anesthesia, University of Western Ontario, March 2018</li> </ul>

- Residents, Department of Emergency Medicine, U of M, annually 2010 – present
- Residents (~100 participants), Department of Family Medicine, U of M, May 2016 & May 2017
- Fellows, Multi-Disciplinary (ICU, GI, Neonatology, Pediatric Surgery, Respiriology), U of M, November 2016
- Residents, Department of Anesthesia, U of M, October 2016
- Residents, Department of General Surgery, U of M, November 2015
- Residents, Department of Obstetrics & Gynecology, U of M, March 2015

## Teaching Experience & Presentations

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December 2021	Invited to be a Moderator & Panelist for a joint collaborative inaugural conference between the Canadian Association of Emergency Physicians (CAEP) and the International Federation of Emergency Medicine (IFEM). Leading global speakers addressed the issues facing women in EM in different regions of the world and the actions needed to address the challenges towards gender equality.
August 2021	Internal Medicine Academic Day. University of Manitoba, Winnipeg. Invited as panelist speaker for "Racism in Healthcare."
2019 – Present	Ocular POCUS. Emergency Medicine Resident Academic Day
November 2015 & 2017	Patient Safety Preceptor for Undergraduate Med 3 students, University of Manitoba
2017 – Present	CPoCUS IP-Core Certification Examinations. Emergency Medicine Resident Academic Day
2017 – Present	POCUS Appendix. Emergency Medicine Resident Academic Day
2017 – Present	POCUS Soft Tissues. Emergency Medicine Resident Academic Day
May 2017	Ultrasound-Guided Central Lines Workshop, University of Manitoba
2016 – Present	POCUS EBM & Clinical Vignette. Emergency Medicine Resident Academic Day
April 2016	Ultrasound-Guided Procedures. Emergency Medicine Resident Academic Day
2016 – Present	Ultrasound-Guided Orthopedic Procedures. Emergency Medicine Resident Academic Day
January 2016	Ultrasound-Guided Nerve Blocks. Emergency Medicine Resident Academic Day
October 2015	The High Performance Physician Program: Performance Psychology and Physician Health. Canadian Conference on Physician Health (CCPH)
April 2015	Breaking Bad News. Transition to Clerkship. M4 students, University of Manitoba

March 2015	The Impact of the High Performance Physician Program. Transition to Clerkship Fourth Year Medical Students; Workshop for Doctors Manitoba
2014 – Present	RUSH & DVT Ultrasound. Emergency Medicine Resident Academic Day
2014 – Present	Focused Thoracic/Lung/Pleura Ultrasound. Emergency Medicine Resident Academic Day
2014 – Present	Advanced Cardiac & IVC Ultrasound. Emergency Medicine Resident Academic Day
2012 – Present	Coordinator and Instructor for the Ultrasound 50 Scans Independent Practitioner Course (CEUS-Approved Course) for the Department of Emergency Medicine, University of Manitoba. This course is delivered to both Emergency Medicine residents as well as Attending staff physicians
2012 – Present	Early OB Ultrasound. Emergency Medicine Resident Academic Day
2012 – Present	Independent Practitioner Ultrasound Credentialing for FAST/Cardiac/Aorta. Emergency Medicine
2013 – Present	Focused DVT Ultrasound. Emergency Medicine Resident Academic Day
2013 – Present	Renal and Gallbladder Ultrasound. Emergency Medicine Resident Academic Day
November 2012	Mentoring in Emergency Medicine: The Evidence & Challenges. <i>Emergency Medicine Grand Rounds, University of Manitoba</i>
March 2012	Central and Peripheral IV Access. Emergency Medicine Resident Academic Day
2011 – Present	Simulation Trainer, Postgraduate Medicine Residents, University of Manitoba Academic Days
2011 – Present	Cardiac and Aorta Ultrasound. Emergency Medicine Resident Academic Day
2011 – Present	FAST – Focused Assessment with Sonography for Trauma. Emergency Medicine Resident Academic Day
2011 – Present	Physics, Knobology & Scanning Techniques. Emergency Medicine Resident Academic Day
April 2011	Morbidity and Mortality Rounds. <i>St. Boniface Hospital Emergency Department, Manitoba</i>
January 2011	Rapid Sequence Intubation. <i>An-Giang Provincial Hospital, Medical Mission to Vietnam</i>
January 2011	Head Trauma in Emergency Medicine. <i>An-Giang Provincial Hospital, Medical Mission to Vietnam</i>
2010 – Present	Practice Oral Examiner, Emergency Medicine Graduate Residents, University of Manitoba
2010	The High Performance Physician: SHARP Study. <i>Emergency Medicine Grand Rounds, University of Manitoba</i>

2009	Thrombolytics in Cardiac Arrest: A Systematic Review. <i>Emergency Medicine Grand Rounds, University of Manitoba</i>
2008	Head Injury in the Elderly: To Scan or Not to Scan? That is The Question. <i>Emergency Medicine Grand Rounds, University of Manitoba</i>
October 2006	Future of ED Ultrasound. <i>Emergency Medicine Grand Rounds, University of Manitoba</i>
September 2006	Aortic Dissection: Pitfalls in Diagnosis & Trends for the Future. <i>Emergency Medicine Grand Rounds, University of Manitoba</i>

## **Continuing Professional Development**

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June 2022	Completed the Emerging Women Executives in Health Care Leadership program, Harvard T.H. Chan School of Public Health, Boston.
November 2021	Effective Allyship: Advancing Women in Healthcare Leadership. University of Manitoba, Winnipeg.
February – May 2021	“Canadian Women in Medicine Leaders” Leadership Program
February 2020	CAEP Leadership Conference, Mexico. The program focused on complexity-informed leadership approaches, practices to increase recruitment to and enhance diversity in leadership in EM, and wellness and resilience of EM physicians.
October 2019	Recruited and organized a world renown speaker on Lung Ultrasound. Dr. Giovanni Volpicelli delivered Interdisciplinary Grand Rounds through the Department of Emergency Medicine as well as an academic session to the residents. University of Manitoba.
June 2018	Canadian Association of Emergency Physicians Annual Conference, Calgary, AB
June 2018	Ultrasound judge in the national CAEP SonoGames.
June 2017	Canadian Association of Emergency Physicians Annual Conference, Whistler, BC
May 2017	Yellowstone Ultrasound Conference, Wyoming, USA
April 2017	CastleFest Ultrasound Conference, Kentucky, USA
January 2017	CaboFest Ultrasound Conference, Cabo, Mexico
January 2017	The Teaching Course, Cabo, Mexico

October 2016	The International Conference on Residency Education. Niagara Falls, Ontario
September 2016	The Canadian Point-of-Care Ultrasound Society (CPoCUS) Conference, Toronto, Ontario. Member of the certification exam committee for national POCUS credentialing.
April 2016	Western Emergency Medicine Operations Conference (WEDOC), Winnipeg, MB
October 2015	Canadian Conference on Physician Health, Winnipeg, MB
February 2015	High Risk Emergency Medicine Conference, University of California, San Francisco
February 2015	Ultrasound Workshops (Guided Ortho Procedures, Guided Nerve Blocks, & Guided Volume Assessment), High Risk Emergency Medicine Conference, University of California, San Francisco
May 2014	Best Evidence in Emergency Medicine (BEEM) Conference, Winnipeg, Manitoba
2013	Advanced Emergency Department Echo Course (EDE 2), Winnipeg, Manitoba
2013	Ethical Conduct for Research involving Humans: Course on Research Ethics (TCPS 2: CORE). University of Manitoba
2012 - Present	Faculty Development Sessions, University of Manitoba
2011	ACEP: Emergency Ultrasound Management Course, San Francisco
2011	Instructor training for Simulation Teaching, University of Manitoba
2010	Training for TeamSTEPPS instructor, St. Boniface Hospital, Winnipeg Regional Health Authority
2010	CAE ICCU: Bedside Ultrasound in the ICU Seminar: Training Modules in Ultrasound Guided Line Placement, Anatomical Variants, Thrombus and Other Anomalies of the Vascular System, and Review of the Ultrasonographic Literature Examination of the Main Vessels, University of Montreal
2010	Putting Evidence into Practice (PEP-EBM) Conference, University of Alberta
2010	Canadian Stroke Consortium 10 <sup>th</sup> Annual Stroke Review, Ottawa
2008	Teaching Improvement Programs (TIPs) Workshop, University of Manitoba

2007	National Chief Residents' Workshop, Royal College of Physicians and Surgeons of Canada,
2007	ACLS Instructor Course, Heart and Stroke Foundation of Canada
2005-Present	Emergency Medicine Update Conferences, University of Manitoba
2005-Present	American College of Emergency Physicians' Conferences
2005-Present	Annual Emergency Medicine Conferences within Canada and the USA
2005-Present	Department of Emergency Medicine Journal Club, University of Manitoba
2005-Present	Department of Emergency Medicine Resident Research Day, University of Manitoba
2005	Procedural Sedation Course, WRHA Emergency Medicine Program

### **Committees, Leadership & Professional Service (Provincial, National, & International)**

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December 2022	External Reviewer for Tenure & Promotion to Associate Professorship for Dr. Margo Wilson. Memorial University.
December 2021	Planning committee member for CAEP Wellness Week: Humans, not Heroes – Recovery & Rediscovery, Jan. 24-28, 2022.
July 2021 – Present	Nominated and selected as an academic member for the College Executive Council for the Faculty of Max Rady College of Medicine, University of Manitoba.
June 2021	Co-Chair for Wellness Track for CAEP Conference 2021  CAEP's 2021 Gender Equity Academic Symposium – A facilitator for Leadership Advancement discussion
June 2020	Diversity & Inclusivity Special Interest Group, Department of Emergency Medicine, University of Manitoba
April 2020	Wellness Lead for HSC ER during the Pandemic. Organized a wellness talk with Drs. Jason Brooks (Performance Psychology) and Maxine Holmqvist (Clinical Psychology) for all ER staff in the province.
February 2020	Nominated by Emergency Medicine colleagues to be on the Headship Search Committee for the Department of Emergency Medicine, University of Manitoba

February 2019	Coordinator, Team Leader and Instructor for an international medical symposium at the An Giang Provincial Hospital in Long Xuyen, Vietnam. The medical mission focused on adult and pediatric trauma and medical resuscitation as well as obstetrical emergencies, and point-of-care-ultrasound. Team simulations were utilized to help physicians in An Giang form a Code Blue team to increase their survival rate for in-hospital cardiac arrests.
November 2018	Interviewer for the WRHA Collective Agreement with Emergency Physicians working in Community EDs who are affected by the regional consolidation process.
2018 – Present	Chair, Hiring Committee with the Association of Emergency Physicians, Health Sciences Centre, Department of Emergency Medicine
2017 – Present	Member of the organizing committee for SonoGames at CAEP.
March 2017	Participated as a faculty member in the “Fireside Chat” for the Medical Education Rotation, DEM, University of Manitoba
February 2016	Team Leader and Instructor for an international medical symposium at the An Giang Provincial Hospital in Long Xuyen, Vietnam. The medical mission focused on adult and pediatric trauma and cardiovascular resuscitation as well as obstetrical emergencies, women's health, and point of care ultrasound
November 2015	Invited to sit on the selection panel for the University of Manitoba Alumni Awards 2016, University of Manitoba
2015 – Present	Co-supervisor for the Department of Emergency Medicine FRCP Mentorship Program
2015 – Present	Member of the national CAEP Emergency Ultrasound Committee
2015 – Present	Member of the CEUS Advanced Application (AdApps) Committee to formalize IP2 training certification
2015 – Present	Member of the Department of Emergency Medicine Executive Committee
2015	Medical Class of 2005 Reunion Committee (with the highest record turnout rate), University of Manitoba
2014 – Present	Interviewed by Dahlia Kurtz on CJOB numerous times to share my life story and my charitable work with CHKV
2015 – Present	A member of the WRHA's Emergency Medicine Specialty Privileges Committee

March 2014	International Women's Day: invited as a panelist to discuss "Inspiring change for women in Manitoba" for the Hummingbird Education Fund to help empower underprivileged women through education
February 2014	Medical School Interviewer for the Faculty of Medicine, University of Manitoba
2013	Masters Level Training, Team STEPPS Professional Development program – St. Boniface General Hospital
1995 – Present	Founder & Director "Canadians Helping Kids in Vietnam Inc." The charity has built nine schools in Vietnam, matched 225 poor families in Vietnam with Canadians willing to offer support, and conducted four medical and dental missions to Vietnam
2010 – Present	Initiator of Biking on a Child's Future, an international campaign to provide bicycles for children to get to and from schools in Vietnam
2012 – 2016	Interviewer: Selections & Recruitment Committee for Physician Staffing at St. Boniface Hospital, Department of Emergency Medicine
2010 – 2016	Instructor: Winnipeg Regional Health Authority Team Building & Communication Workshop (TeamSTEPPS) for St. Boniface General Hospital Emergency Physicians & Nurses
2010 – Present	Ultrasound Proctor for University of Manitoba CME Ultrasound Course
2010 – Present	Canadian Association of Emergency Physicians: Women in Emergency Medicine Committee Member and Mentor
2011 – Present	A member of the FRCP Emergency Medicine Training Committee, Department of Emergency Medicine, University of Manitoba
2010 – 2013	Co- Chairperson for Admissions Task Group: Diversity Working Group for the Faculty of Medicine
2011	Invited to serve on the Internal Review for the Royal College of Physicians & Surgeons of Canada Accreditation for the University of Manitoba Postgraduate Medical Education Program
2011	Invited as junior faculty member, Department of Emergency Medicine, for the University of Manitoba's Undergraduate Medical Education Program full accreditation
2009, 2011, 2016	Team leader of three major international medical missions to Vietnam through Canadians Helping Kids in Vietnam, Inc.
2009	Coordinator for the "High Performance Physician" curriculum for the University of Manitoba Emergency Medicine Residency Program

2009	Chief Resident Emergency Medicine Residency Program, University of Manitoba
2009	Interviewed for the Winnipeg Free Press as leader of my national charity's first Medical Mission to Vietnam
2007 – 2008	Initiated study in specialized electives at Cleveland Metro Health Trauma Level One Centre, Toronto Sunnybrook Hospital & New York City Poison Control Unit
2005	Interviewer: Admissions Panel for Faculty of Medicine, University of Manitoba
2001-2005	Elected by the Class of 2005 as Academic Rep, Faculty of Medicine
2001-2005	Delegate to the Undergraduate Medical Curriculum and Clerkship Curriculum Committees
1997-2000	Selected for Advanced Peer Support Training at the University of Manitoba
1999	Translator on Interplast International's Surgical Mission to Vietnam
1998-1999	Selected for Peer Advisor Program Steering Committee, University of Manitoba
1997,1998	Facilitator, Equity Services student workshops, University of Manitoba
1997	English instructor for Japanese high school students, Kumon Leysin Academy of Switzerland
1990-1996	High School President and Student Council Executive Member
1996	Interviewed for a Winnipeg Free Press front page story on my escape from Vietnam and life in Canada
December 1996	Interviewed by Peter Gzowski on one of his last shows for CBC Morningside

## References

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1. Dr. Aleks Chochinov, MD, FRCPC  
 Professor, Department of Emergency Medicine  
 Rady Faculty of Health Sciences, University of Manitoba

2. Dr. Rob Grierson, MD, FRCPC

Medical Director, Winnipeg Fire Paramedic Services  
Chief Medical Officer, Emergency Response Services Shared Health  
Assistant Professor, Department of Emergency Medicine  
Rady Faculty of Health Sciences, University of Manitoba

3. Dr. Gillian Shepard, MD, FCFP-EM  
CAEP Chair, Women in Emergency Medicine Committee  
Assistant Professor, Discipline of Emergency Medicine  
Faculty of Medicine, Memorial University of Newfoundland

4. Dr. Shelly Zubert, MD, FRCPC  
Adult Emergency Department Medical Director  
Emergency Medicine & Critical Care Medicine  
Rady Faculty of Health Sciences, University of Manitoba

5. Dr. Wes Palatnick, MD, FRCPC  
Professor, Department of Emergency Medicine  
Rady Faculty of Health Sciences, University of Manitoba