

# Projet d'érudition des résidents en médecine familiale (PERMF) / Family Medicine Resident Scholarly Project (FMRSP)

## Liste de questions de projet 2021-2022 / List of Project Questions 2021-2022

Une liste de questions de projet selon le site clinique ou le type de PERMF (érudition ou recherche) est proposée ci-dessous. Nous fournissons des informations de base pour les questions qui sont parmi des projets existants et en cours. Les membres du corps professoral ont aussi soumis des projets selon leurs intérêts de recherche.

Veuillez contacter le(a) superviseur(e) ou la personne désignée si un projet vous intéresse. Si vous avez des questions ou des commentaires, veuillez communiquer avec Maddie Venables, conseillère en recherche universitaire, à [fmrspdfm@uottawa.ca](mailto:fmrspdfm@uottawa.ca).

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Please see below for a list of project questions according to clinical site and FMRSP type (Scholarly and Research). We provide background information for questions that are part of existing and ongoing projects. Other project questions have been proposed by Faculty Members according to their research interests.

If you are interested in a project, please contact the supervisor or person listed. If you have any questions or comments, please contact Maddie Venables, the Academic Research Advisor, at [fmrspdfm@uottawa.ca](mailto:fmrspdfm@uottawa.ca).

## PROJETS D'ÉRUDITION / SCHOLARLY PROJECTS

QUESTION DE RECHERCHE / SUJET RESEARCH QUESTION / TOPIC	CONTEXTE / BACKGROUND	SUPERVISEUR(E) / SUPERVISOR	AFFILIATION / AFFILIATION
<b>Digital Solutions</b>	A literature review exploring how digital solutions can support patient-centered care within Ontario Health Teams post-COVID-19.	Alison Eyre <a href="mailto:Alison.eyre@aeyre.com">Alison.eyre@aeyre.com</a>	Centretown Community Health Centre
<b>Creation of an online module to help physicians better understand the lived experience of in-home care for older patients</b>	<p><b>Context:</b> Many seniors return to hospital soon after being released. One possible reason is that their in home experience is so significantly different from the hospital that it is hard for them to follow the health instructions. The project is to develop a short video montage to help hospital staff to the better understand the lives of frail elderly in the community so that discharge plans can be designed to be sustainable allowing the patient to maintain the benefits of the hospitalization. This project would include home visitation and the creation of a list of recommendations/tips to better tailor in-home care advice for this population.</p> <p><b>Role:</b> Contact supervisor for information.</p>	Alison Eyre <a href="mailto:Alison.eyre@aeyre.com">Alison.eyre@aeyre.com</a>	Centretown Community Health Centre
<b>Continuing development of a mobile application on prevention and screening in Canadian adults</b>	Incorporating the recommendations for preventive care for transgendered individuals in an already developed mobile application (the app is for patients and providers on evidence-based recommendations for prevention and screening in Canadian adults)	Cleo Mavriplis <a href="mailto:CMavriplis@bruyere.org">CMavriplis@bruyere.org</a>	Élisabeth Bruyère

<b>Predicting the risk of adverse health outcomes based on health behaviours and other factors</b>	A literature review looking at health behaviours and other factors that can predict risk of adverse health outcomes in the population setting and in primary care. For example, if you smoke, what is your risk of not just heart disease but any poor outcome including heart disease, cancer, lung disease etc. This will include identifying existing risk-prediction models in the literature.	Courtney Maskerine <a href="mailto:cmaskerine@bruyere.org">cmaskerine@bruyere.org</a>	Bruyère Academic FHT
<b>Exploring the hidden curriculum in family medicine training</b>	Have you ever wondered what residents are unintentionally learning during their family medicine post graduate training? This FMRSP given you the opportunity to explore this medical education topic and gain skills in a mixed methods approach (integrated qualitative and quantitative).	Denice Lewis <a href="mailto:dlewis@uottawa.ca">dlewis@uottawa.ca</a>	Children's Hospital of Eastern Ontario
<b>Does rapid weight loss by dieting post-partum lead to increased risk of depression?</b>	A literature review where the topic is predicated from the notion that toxins stored in fatty tissue is released in weight loss and reaches other lipophilic tissues such as the brain and breast milk.	Gary Viner <a href="mailto:gviner@toh.ca">gviner@toh.ca</a>	The Ottawa Hospital - Civic Campus
<b>Evaluating the impact of using templates in electronic medical records.</b>	A literature review on the medical educational impact of the use of templates in electronic medical records for learners. This project will build on a previous resident project.	Gary Viner <a href="mailto:gviner@toh.ca">gviner@toh.ca</a>	The Ottawa Hospital - Civic Campus
<b>Topics in MSK</b>	Topics of interest to supervisor are: concussion, disabled athletes, osteoarthritis, MSK in global health and mental health in athletes. Could also select a topic in MSK of your choice.  <b>Role:</b> Contact supervisor for information.	Lindsay Bradley <a href="mailto:lindsaybradley@gmail.com">lindsaybradley@gmail.com</a>	Carleton University Sport Medicine Clinic
<b>What is the role of DVT prophylaxis among ALC patients?</b>	<b>Background:</b> Currently there is very little to guide use of DVT prophylaxis among medically stable ALC (alternative level of care) patients, who have no acute medical issues requiring hospital admission other than inability to find a suitable living environment and waiting for placement. A literature	Pil Joo <a href="mailto:pjoo@toh.ca">pjoo@toh.ca</a>	The Ottawa Hospital - Civic

review will help shape need for future study such as an RCT.

## PROJETS DE RECHERCHE / RESEARCH PROJECTS

QUESTION DE RECHERCHE / SUJET RESEARCH QUESTION / TOPIC	CONTEXTE / BACKGROUND	SUPERVISEUR(E)(S) / SUPERVISOR	AFFILIATION / AFFILIATION
<b>A pilot project to assess Family Medicine residents' management of intrapartum emergencies using hybrid simulation</b>	<p><b>Background:</b> This PRIME project incorporates multiple approaches to assess FM residents' management of simulated intrapartum emergencies. The simulation sessions are planned for the fall of 2021. Components of the project include:</p> <ul style="list-style-type: none"> <li>• assessment of resident performance, includes self-assessment</li> <li>• assessment of handover</li> <li>• evaluation of the simulation experience by the residents, faculty, and other participants</li> <li>• assessment of faculty development needs</li> <li>• assessment of the acceptability and feasibility of using simulation in FM clinical spaces</li> </ul> <p>This project would appeal to FM residents who are interested in medical education, simulation, and/or obstetrics. Residents are welcome to choose a facet which interests them.</p> <p><b>Role:</b> Contact supervisor for information.</p>	<p>Amy Nakajima  <a href="mailto:ANakajima@bruyere.org">ANakajima@bruyere.org</a></p>	<p>The Ottawa Hospital - Civic Campus</p>
<b>Evaluating the Urban Health Program at Centretown Community Health Centre and Its effect on HealthCare Literacy</b>	<p><b>Background:</b> How does a tailored and comprehensive primary care model designed for urban marginalized and complex populations effect individual healthcare literacy three to five years after initial contact.</p> <p><b>Role:</b> Participate in data collection and assist with focus groups.</p>	<p>Carol Geller  <a href="mailto:cgeller@centretownchc.org">cgeller@centretownchc.org</a></p>	<p>Centretown CHC</p>

<p><b>Health services utilization among frail older patients during the COVID19 lockdown</b></p>	<p><b>Background:</b> Dr. Liddy is the lead of a network of health care organizations in the Champlain region aiming to advance patient-centred care for frail older adults. Within the network, there are opportunities to examine questions related to identification and care of frail patients, as well as their access to and use of health services, particularly in the context of COVID19. Examples of areas that can be explored are: 1) whether / how primary care clinics have identified and provided care to frail older patients during the COVID19 lockdown; 2) changes in health services utilization among frail patients during the COVID19 lockdown; 3) use of telehealth among frail older patients.</p> <p><b>Role:</b> The resident will develop a research question, access or collect data (as required), analyze the data and write up the results. Publication of this work will be highly encouraged.</p>	<p>Clare Liddy <a href="mailto:cliddy@uottawa.ca">cliddy@uottawa.ca</a></p>	<p>The Ottawa Hospital - Riverside Campus</p>
<p><b>Do patients who attend a “Meet and Greet” of the OB call group (Mommadoc.ca) at the Civic have a different OB outcome than those who do not?</b></p>	<p><b>Background:</b> This project seeks to evaluate patient satisfaction and intrapartum experience of patients attending the “Meet and Greet” events at the Civic.</p> <p>Given the pandemic, these sessions have pivoted to a virtual environment and there’s an opportunity to evaluate and compare virtual vs in-person visit outcomes.</p> <p><b>Role:</b> Contact supervisor for information.</p>	<p>Gary Viner <a href="mailto:gviner@toh.ca">gviner@toh.ca</a></p>	<p>The Ottawa Hospital - Civic Campus</p>

<b>Assessing the value of “Meet and Greet” events for pregnant patients at the Civic Campus</b>	<p><b>Background:</b> This project seeks to evaluate the impact and value of quarterly “Meet and Greet” events hosted by the Civic’s OB on-call group.</p> <p>Given the pandemic, these sessions have pivoted to a virtual environment and there’s an opportunity to evaluate and compare virtual vs in-person visits.</p> <p><b>Role:</b> Multiple surveys have already been collected and require data analysis. Contact supervisor for further information.</p>	Gary Viner <a href="mailto:gviner@toh.ca">gviner@toh.ca</a>	The Ottawa Hospital - Civic Campus
<b>Impact of EHR on Clinical Reasoning and Patient-Centredness</b>	<p><b>Background:</b> This project seeks to evaluate the impact of the EHR on clinical reasoning and patient-centredness particularly in the virtual environment. The resident must not be based at the Civic or Riverside units given that they are potential participants.</p> <p><b>Role:</b> Contact supervisor for information.</p>	Gary Viner <a href="mailto:gviner@toh.ca">gviner@toh.ca</a>	The Ottawa Hospital - Civic Campus
<b>Teaching and Implementation of “Medical Knowledge Management”</b>	<p><b>Background:</b> Are medical students and physicians trained in this “Medical Knowledge Management” meta-skill, and how do they develop/utilize these skills? What would be the potential benefits? How does one learn to track and retain effective medical resources?</p> <p><b>Role:</b> Contact supervisor for information.</p>	Gary Viner <a href="mailto:gviner@toh.ca">gviner@toh.ca</a>	The Ottawa Hospital - Civic Campus

<b>Evaluation of the Substance Use Program at the Ottawa Hospital</b>	<p>The Substance Use Program (SUP) is a relatively new addiction medicine consult service at the Ottawa Hospital. We are looking to evaluate our program through a detailed descriptive analysis of the consults that have been completed from 2018-2020. The vast majority of our consults are for opioid and alcohol use disorders, and we intend on analyzing information relevant to socioeconomic status, education, and housing as well. Role: You will help our team codify key information from patient charts and conduct data analysis if within your interest.</p>	<p>Helen Hsu  <a href="mailto:hhsuned@gmail.com">hhsuned@gmail.com</a></p>	<p>Ottawa Hospital  General Campus</p>
<b>Hybrid Arts and Medicine Research Needed!</b>	<p>Are you interested in a research project that combines creativity and medicine? If so, this is an opportunity for you to utilize your knowledge of physical computing or learn. In collaboration with a STEM company based in Toronto - STEAM Labs, we have developed a 20 second hand washing timer to help combat the spread of COVID-19 and its second wave. We are looking for an enthusiastic resident to take over the practical aspects of it.</p> <p>Skills needed include:</p> <ul style="list-style-type: none"> <li>• Electronics and soldering</li> <li>• Arduino coding</li> <li>• Thingspeak</li> <li>• Matlab for data analysis</li> </ul> <p>Please contact us if you're interested or wish more details, we'll be happy to answer any of your questions!</p>	<p>Jay Mercer  Tamara Pokrupa-Nahanni  <a href="mailto:tpoknah@gmail.com">tpoknah@gmail.com</a></p>	<p>Élisabeth Bruyere  Hospital</p>

<b>Global Health Passport Using Instagram to examine Education pathways and global health developments for local and international medical students and residents</b>	Social media and new technology in global health knowledge mobilization research (check out the site: Global Health Passport).	Kevin Pottie <a href="mailto:kpottie@uottawa.ca">kpottie@uottawa.ca</a>	Élisabeth Bruyere Hospital
<b>Evaluating the use of narratives to improve the uptake of evidence-based guidelines by clinicians that support transitions in care of homeless persons into communities</b>	<b>Research objective:</b> This project will iteratively develop homeless transition narratives to enhance the uptake of the evidence based homeless health guidelines (Pottie, CMAJ). We are working with US and UK partners and Dynmed app.	Kevin Pottie <a href="mailto:kpottie@uottawa.ca">kpottie@uottawa.ca</a>	Élisabeth Bruyere Hospital
<b>Optimizing the use of linked data and AI in public health in conjunction with the Albert Cargill Meat Processing Plant Project</b>	<b>Research objective:</b> This project seek residents with some database and AI experience and interest to help optimize equitable AI approaches at Cargill for equity and public health.	Kevin Pottie <a href="mailto:kpottie@uottawa.ca">kpottie@uottawa.ca</a>	Élisabeth Bruyere Hospital
<b>Interested in conducting secondary dataset analyses? Potential for high-impact research and QI projects!</b>	<b>Context:</b> Dr. Jolin-Dahel's research interests are in OB and using large electronic datasets such as BORN. She would be happy to supervise and discuss project opportunities relating to these topics.  <b>Role:</b> Please contact supervisor for more information.	Kheira Jolin-Dahel <a href="mailto:KDAHE075@uottawa.ca">KDAHE075@uottawa.ca</a>	Winchester
<b>Underrepresented female family medicine trainees: A National study</b>	<b>Project:</b> The perspectives of underrepresented female family medicine trainees of intersectionality of gender and underrepresentation on professional identity formation, A National study  <b>Role:</b> Contact Supervisor for more information.	Parisa Rezaiefar <a href="mailto:prezaiefar@bruyere.org">prezaiefar@bruyere.org</a>	Élisabeth Bruyere Hospital
<b>Ambulatory women's health procedures</b>	<b>Project:</b> An innovative approach to curriculum delivery of ambulatory women and nonbinary health procedures using virtual learning and virtual reality  <b>Role:</b> Contact Supervisor for more information.	Parisa Rezaiefar <a href="mailto:prezaiefar@bruyere.org">prezaiefar@bruyere.org</a>	Élisabeth Bruyere Hospital



<p><b>Can Tai Chi improve cognitive status in people with traumatic brain injury? A systematic review</b></p>	<p><b>Background:</b> Traumatic brain injury can happen from many causes including sports, work, leisure or car accidents, military duty, etc. Tai Chi has a number of health benefits, including on cognitive status. There are now enough trials on Tai Chi and traumatic brain injury to conduct a systematic review.</p> <p><b>Role:</b> You will be part of a team collecting, assessing and summarizing data from about four trials.</p>	<p>Patricia Huston <a href="mailto:pg.huston@gmail.com">pg.huston@gmail.com</a></p>	<p>Primrose Family Health Team</p>
<p><b>Can we predict propofol dose more accurately for procedural sedation using machine learning algorithms?</b></p>	<p><b>Background:</b> Currently there is no validated model to predict propofol dosing for procedural sedation. Physicians often use simplistic model using age, sex, (estimated) weight and gestalt to decide the dose. This approach often results in multiple boluses to achieve the desired level of sedation, which delays the procedure. A more precise predictive model can reduce procedure duration and complication rate. We will collect data and use various approaches, including machine learning, to derive such a model.</p> <p><b>Role:</b> Study design, data collection, model derivation, manuscript preparation</p>	<p>Pil Joo <a href="mailto:pjoo@toh.ca">pjoo@toh.ca</a></p>	<p>The Ottawa Hospital - Civic</p>
<p><b>What is the current practice pattern for procedural sedation? How interested are physicians for a more precise propofol dosing prediction model?</b></p>	<p><b>Background:</b> As part of the project to develop a propofol dosing prediction model for procedural sedation, we would like to survey physicians to gauge interest in such a model. Who performs procedural sedation? (CCFP? CCFP-EM? CCFP-anesthesia? FRCP?) What is the comfort level of rural/community physicians, including family physicians managing ERs, with procedural sedation? How much is unpredictability of propofol dosing perceived to be a problem?</p>	<p>Pil Joo <a href="mailto:pjoo@toh.ca">pjoo@toh.ca</a></p>	<p>The Ottawa Hospital - Civic</p>

	<b>Role:</b> Survey design, data collection, analysis, manuscript preparation		
<b>Does various hospital diets actually work?</b>	<p><b>Background:</b> Admitted patients are often given various specific diets, such as "renal", "diabetic", or "heart healthy". Are there any basis/evidence for these different diets? How are they really different from the "regular" diet? Are these diets made consistently from hospital to hospital? (Are there any standards?)</p> <p><b>Role:</b> Study design (survey or systematic review), data collection, analysis, manuscript preparation</p>	<p>Pil Joo  <a href="mailto:pjoo@toh.ca">pjoo@toh.ca</a></p>	The Ottawa Hospital - Civic
<b>What is the role of sodium supplementation in hyponatremia?</b>	<p><b>Background:</b> Patients are often given sodium supplementations when found with euvoletic hyponatremia. Does this really work? A literature review into this question (whether scoping review or systematic review) may help determine whether further study is warranted.</p>	<p>Pil Joo  <a href="mailto:pjoo@toh.ca">pjoo@toh.ca</a></p>	The Ottawa Hospital - Civic
<b>Validating an Automated, Preventive Care Clinical Decision Support Tool</b>	<p>This project will assess the validity of a preventive care, clinical decision support tool that gathers patients' preventive care data from the EMR and generates a summary for providers. The plan is to implement this tool in the coming months, but we need to formally validate the data that it collects by comparison to manual chart reviews.</p>	<p>Scott Laing  <a href="mailto:Scottwlaing@gmail.com">Scottwlaing@gmail.com</a></p>	Primrose Family Health Team
<b>Access to Resources in the Community/Accès aux ressources communautaires (ARC)</b>	<p><b>Research Objective:</b> Investigate the effect of a Patient Navigator intervention integrated in primary care practices on the improvement of equitable access of community-based health and social resources among primary care patients.</p> <p><b>Resident Role:</b> The resident would support the research team with qualitative and/or quantitative analyses of the study results.</p>	<p>Simone Dahrouge  <a href="mailto:SDahrouge@bruyere.org">SDahrouge@bruyere.org</a></p>	CTLC

**Using OPEN (Ottawa Practice Enhancement Network) for quality improvement and research projects**

Are you planning a chart review? Instead, consider using relevant **regional** and/or **national EMR data** from primary care practices to answer health-related questions.

The OPEN network can provide you with

- 1) de-identified EMR data on a variety of primary health care topics and measures (e.g. diabetes screening, COPD, depression, medication safety, etc.);
- 2) guidance for developing your research question and design
- 3) assistance from experts in multiple content areas including clinical care and EMR audit/feedback

There is the opportunity to address numerous research questions and knowledge gaps in primary care using EMR data. For example, a research question could include studying chronic disease management (e.g. diabetes, hypertension, osteoarthritis, depression, chronic obstructive lung disease, dementia, Parkinson's disease and epilepsy). As well as perform population health and clinical studies relating to rates of treatment of diseases, incidence/prevalence, multi-morbidity, quality improvement, intervention outcomes, patient visit patterns, patient safety and much more. Please contact the supervisor for more information.

<sup>1</sup>Several residents may be considered for this project.

<sup>2</sup> This could begin with the QI project and be carried forward as an FMRSP.

<sup>3</sup> Option for a research elective

Co-Supervisor: Simone Dahrouge

[SDahrouge@bruyere.org](mailto:SDahrouge@bruyere.org)

For more information, contact [open@uottawa.ca](mailto:open@uottawa.ca)

[www.raspo-open.com](http://www.raspo-open.com)

CTLC

**Understanding and facilitating the delivery of care for mental health conditions in primary care**

**Background:** There is evidence of increased anxiety and depression amongst Canadians due to the pandemic, but no assessment of how these conditions have been identified and managed in primary care. We aim to (1) leverage the information contained in EMRs to understand the pattern of mental health care delivery in primary care practices during the pandemic period, and (2) develop an approach to readily identify individuals with mental health conditions exacerbated by the pandemic and support providers facilitate their access to mental health and other health and social services to help them achieve wellness.

**Role:** Please email us at [open@uottawa.ca](mailto:open@uottawa.ca) for more details.

Supervisor: Simone  
Dahrouge

[SDahrouge@bruyere.org](mailto:SDahrouge@bruyere.org)

For more information,  
contact [open@uottawa.ca](mailto:open@uottawa.ca)

[www.raspo-open.com](http://www.raspo-open.com)

CTLC

**Join a national initiative to advance elderly care and deprescribing**

**Background:** According to the Canadian Institute for Health Information, a third of Canadian seniors regularly take over five medications, and more than one in four have been prescribed over ten unique medications in the past year. Join forces with the Ottawa Practice Enhancement Network (OPEN) and other primary care networks across Canada to participate in a research and quality improvement collaboration called **SPIDER** (a **Structured Process Informed by Data, Evidence and Research**) to support practices' efforts to advance care for complex elderly patients.

Reducing potentially inappropriate medications by managing polypharmacy aims to improve patient health and the healthcare experience while providing options for seniors beyond long-term care homes, an important and emerging issue during the pandemic.

**Role:** Please email us at [open@uottawa.ca](mailto:open@uottawa.ca) for more details.

Supervisor: Simone Dahrouge

[SDahrouge@bruyere.org](mailto:SDahrouge@bruyere.org)

For more information, contact [open@uottawa.ca](mailto:open@uottawa.ca)

[www.raspo-open.com](http://www.raspo-open.com)

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