



2021

Research Program

Annual Report

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Our Mandate

Research in the Department of Family Medicine is committed to enhancing the discipline of family medicine and primary care through rigorous and relevant creation of original evidence to address important knowledge gaps. Firmly anchored in the patient experience, our internationally recognized researchers investigate problems that affect patients and other populations, including multimorbidity, undifferentiated presentations, and organization of care. These problems can range from prevention and health promotion to the diagnosis, treatment, and management of health problems. They span the spectrum from family and community intervention, to governance, access to services, economic and workforce development and the three “C’s” of high-quality primary care (continuity, coordination and comprehensiveness). This is done through the development and use of different research methodologies that equally value qualitative and quantitative evidence generated by researchers framed in multiple research paradigms. The richness of expertise, experience and interdisciplinarity ensures that our research program is actively contributing to our discipline and the health of local communities, across Canada and globally.

Message from the Director of Research

The year 2021 was a year of adaptation for many of us. The new realities brought by the COVID-19 pandemic were still present, impacting our daily lives; the way we provided care to patients, the way we taught and supervised students and residents, the way we conducted our research, and even how we interacted socially with others. It was a moment for many to pause and explore new work opportunities, and for us to welcome team members who chose our department to fulfill this search for new challenges. While we will miss our dear colleagues who contributed immensely to the success of our department, I want to express my warm gratitude to our new colleagues who joined us and are already part of our big family, adding their color and enriching our department. It is a great honor for me to present the 2021 Annual Report, which clearly demonstrates the impressive productivity and success of our researchers, clinicians, and students, despite these unique times. Our Department of Family Medicine excelled at maintaining person-centered care to the population, heavily contributed to the continuing needs related to COVID-19, provided adapted but student-centered teaching to our residents, graduate students, and medical students, organized stimulating seminars and other events, and continued to successfully innovate in medical education, and advance knowledge to improve care and help patients maintain their health and wellbeing.

L'année 2021 a été une année d'adaptation pour beaucoup d'entre nous. Les nouvelles réalités apportées par la pandémie de COVID-19 étaient toujours présentes et continuaient leur impact sur notre vie quotidienne : la façon dont nous fournissons des soins aux patients, la façon dont nous enseignons et supervisons les étudiants et les résidents, la façon dont nous menons nos recherches et même la façon dont nous interagissons socialement avec les autres. Ce fut l'occasion pour beaucoup de faire une pause et d'explorer de nouvelles possibilités de travail, et pour nous d'accueillir des membres d'équipe qui ont choisi notre département pour répondre à cette recherche de nouveaux défis. Si nos chers collègues qui ont énormément contribué au succès de notre département nous manqueront, je tiens à exprimer ma chaleureuse gratitude à nos nouveaux collègues qui nous ont rejoints et font déjà partie de notre grande famille, ajoutant leur couleur et enrichissant notre département. C'est un grand honneur pour moi de présenter le rapport annuel 2021, qui démontre clairement l'impressionnante productivité et le succès de nos chercheurs, cliniciens et étudiants, malgré cette période unique. Notre département de médecine familiale a excellé dans le maintien des soins centrés sur la personne auprès de la population, a fortement contribué aux besoins continus liés à la COVID-19, a fourni un enseignement adapté mais centré sur l'étudiant à nos résidents, étudiants de 2e cycle et en médecine, organisé des séminaires et autres événements stimulants, et a continué à innover avec succès dans l'enseignement médical, et à faire progresser les connaissances pour améliorer les soins et aider les patients à maintenir leur santé et leur bien-être.



Alexandra de Pokomandy, MDCM MSc,
Associate Professor, Clinician-Scientist
Research Program Director

Message from the Chair

I am as always delighted to introduce this Annual Report of Research from the Department of Family Medicine! Despite the extremely challenging circumstances of the Covid-19 pandemic over the last 3 years, our clinicians and academics have, with determination and innovation, conducted a tremendous breadth and depth of projects in family medicine and primary care, receiving local, national, and international recognition! McGill's Department of Family Medicine remains a world leader in mixed methods research, in Alzheimer's research, in HIV research, and in social determinants of health, while our reputation is emerging in indigenous scholarship, global health, medical education, and artificial intelligence.

Over the last year, two clinician scientists have received FRQS Senior awards, thereby joining the ranks of permanent members of our academic faculty. Our graduate students have continued their stellar achievements, obtaining prizes, awards, and degrees. Faculty members have been pulling in funding and grants. Our department is active in the Strategy for Patient Oriented Research (SPOR) and is a key partner in Quebec's implementation of a Learning Health System. I am proud of all our achievements, and of our contribution to the advancement of family medicine as an academic discipline, which will lead to improved health of individuals and communities, across Canada and around the world. Please join me in appreciating and celebrating the extraordinary work of our department's researchers as you look through this report.

Comme toujours, je suis ravie de vous présenter le rapport annuel de recherche du Département de médecine de famille! Malgré les circonstances extrêmement difficiles associées à la pandémie de Covid-19 avec lesquelles nous avons dû composer ces trois dernières années, nos cliniciens, cliniciennes et universitaires ont fait preuve de détermination et d'innovation en menant de grands projets en médecine de famille et en soins primaires. Ces projets leur ont d'ailleurs valu une reconnaissance locale, nationale et internationale! Le Département de médecine de famille de l'Université McGill demeure un chef de file mondial dans la recherche à méthodes mixtes ainsi que dans la recherche sur la maladie d'Alzheimer, sur le VIH et sur les déterminants sociaux de la santé, tandis que notre réputation grandit dans les domaines de la recherche et de l'avancement des connaissances autochtones, de la santé mondiale, de l'éducation médicale et de l'intelligence artificielle.

Au cours de la dernière année, deux cliniciens-chercheurs ont reçu des bourses de catégorie Senior du FRQS, rejoignant ainsi les rangs des membres permanents de notre corps professoral. Nos étudiants et étudiantes aux cycles supérieurs continuent leurs réalisations exceptionnelles, obtenant des prix, des récompenses et des diplômes. Les membres du corps professoral ont récolté des fonds et des subventions. Notre Département participe activement à la Stratégie de recherche axée sur le patient (SRAP) en plus d'être un partenaire clé dans la mise en place au Québec d'un système de santé apprenant. Je suis fière de toutes nos réalisations et de notre contribution à l'avancement de la médecine familiale en tant que discipline universitaire, qui mènera à l'amélioration de la santé des individus et des communautés, partout au Canada et à travers le monde. Je vous invite à lire ce rapport qui souligne le travail extraordinaire des chercheurs et chercheuses de notre Département.



Marion Dove, MD
Associate Professor
Department Chair of the Department of Family Medicine

Activities

*Research Seminar Series
FMER Advanced Research Seminar Series
Isaac Tannenbaum Resident Research Day*

Research Seminars Series

Providing Perinatal Care During the COVID-19 Pandemic: Lessons Learned

January 22, 2021 - Kathleen Rice, Hannah Shenker

Current Challenges in Online Adolescent Care

March 26, 2021 - Tracie Barnett, Pierre-Paul Tellier

The Imperative of Engaging Patients in Research & Quality Improvement: Developing know-how

April 23, 2021 - Peter Nugus, Jeannie Haggerty, Nebojsa Kovacina, Lucie Lambert, Sonia Lussier, Nadjib Mokraoui

Primary Care for Elderly People: A Career Trajectory of the Academic Family Physician

May 14, 2021 - Vladimir Khanassov

Clinician-researcher partnership to produce knowledge from and for clinical practice:

Initiatives and lessons learned at the McGill Practice-Based Research Network

June 11, 2021 - Jeannie Haggerty, Peter Nugus, Nadjib Mokraoui

Towards participatory data science: why asking "What?" is not enough

September 10, 2021 - Tibor Schuster

Telemedicine during and beyond the COVID-19 pandemic: Transferable lessons from the experience of primary care clinicians and patients

October 8, 2021 - Peter Nugus, Jeannie Haggerty, Alayne Adams, Nadjib Mokraoui, Mylène Arsenault, Isabelle Leblanc, Kimberly Munro

FMER Advanced Research Seminars Series

Does Spaced Education Improve Clinical Knowledge among Family Medicine Residents? A

cluster randomized controlled trial

February 19, 2021 · Roland Grad

Using Interpretive Description as an Approach to Qualitative Medical Education Research

November 5, 2021 · Sally Thorne

Isaac Tannenbaum Family Medicine Resident Research Day

The Isaac Tannenbaum Resident Research Day is an annual event that brings together our residents and clinician teachers from our 9 university family medicine groups, and which recognizes the scholarly projects completed by our residents in Family Medicine. The Isaac Tannenbaum Resident Research Day is conjointly organized by the Postgraduate, Research and Faculty Development Divisions in the Department of Family Medicine and is funded by the Program of Family Medicine and by the Faculty of Medicine at McGill University.

Isaac Tannenbaum Resident Research Day - Friday, May 28, 2021

Presentations:

- Aidan Steinmetz-Wood, Michel Stawski, Ahmed Traore (JGH)
Post-pandemic virtual care: an algorithmic approach to optimizing efficiency
- Lorenz Holbein, Karine Rousseau, Angela Stamiris (CLSC PEX)
Intro to rocket science: prescribing exercise
- Malaika Awori, Valerie Caldas, Pearson Wu (SMH)
Optimizing Antibiotics Stewardship: A Focus on Otitis Media and Otitis Externa
- Julien Lambert, Cynthia Veilleux (CGY)
Tabagisme
- Anne-Sophie Lacasse, François Lamarre, Nicolas Scarborough (CLSC Metro)
Adherence of the CTFPHC Lung Cancer Screening Guidelines: A Single-Center Case Series
- Julia Héron, Sissi Nguyen, Chloé Xu (CLSC CDN)
Watchful waiting in acute otitis media in the CLSC CDN pediatric population
- Emma Glaser (Maternal-Child Health fellow)
Podcasts and the family medicine curriculum: an exploratory qualitative study
- Peter Potgordny, Jarred Slimovitch (QEHC)
The Screensaver
- Annie-Pier Duguay, Inna Ermeichouk, Sarina Lalla (Gatineau)
Dépistage de dépression postpartum: L'effet d'un questionnaire en suivi clinique
- Dr. Roland Grad
CSP Enhanced Skills Program

Outcomes

Overview of Research Productivity

Major research grants awarded in 2021, McGill's Office of Sponsored Research:

- Youth-led mental health and wellbeing forum: listening, learning, and sharing strategies to promote responsive program and policy development. *SSHRC Connections Grant; Dr. Alayne Mary Adams (Principal Investigator)*. \$25,000, 2021-2022
- La télémédecine pour les personnes âgées pendant la pandémie de COVID-19. *FRQ; Dr. Isabelle Vedel (Principal Investigator)*. \$132,704
- Co-designed cultural safety in Nunavik: proof-of-impact. *CIHR; Dr. Neil Andersson (Principal Investigator)*. \$1,890,000
- Évaluation de l'impact des produits de connaissances de l'INESSS avec la Méthode d'évaluation des informations (MEI). *INESSS; Dr. Pierre Pluye (Principal Investigator)*. \$51,750
- Personal Social Networks, Built Environment and Cardiometabolic Risk Factors: a Prospective Investigation with Young Adults. *CIHR; Dr. Tracie Barnett (Principal Investigator), Dr. Tibor Schuster (Co-Principal Investigator)*. \$707,626
- A Race Dialogue Tool to Support Clinical Care & Communication in Serious Illness. *Brigham and Women's Hospital; Dr. Justin Sanders (Principal Investigator)*. \$ 83,400
- Impact oriented dialogue for culturally safe adolescent sexual and reproductive health in Bauchi State, Nigeria; *CIHR (A); Dr. Anne Cockcroft* \$1,430,550
- Dementia Simplified Tool for Family Physicians; *College of Family Physicians of Canada; Khanassov, Vladimir*; \$5000
- Telemedicine in the care of people living with dementia and their caregivers in the rural and urban community of Canada during and beyond the COVID-19 pandemic; *CIHR (A); Khanassov, Vladimir*; \$100,000

Other grants awarded to Researchers of the Department of Family Medicine

- ListenUp for Youth Wellbeing: Strengthening youth-engaged evidence for effective policy. *McGill Global Health Programs Team Grants Dr. Alayne Mary Adams (Principal Investigator)*. \$8750, 2021-2022
- Enabling intergenerational connections to promote mental health and well-being and co-develop climate change solutions. *PVF Foundation; Dr. Alayne Mary Adams (Co-Principal Investigator)*. \$830,000, 2021-2024
- « Too much pain doctor! »: Capturer l'expérience clinique des représentations culturelles de la détresse psychologique. *Réseau-1 Québec; Dr. Alayne Mary Adams (co-Principal Investigator), Dr Isabelle Leblanc*. \$5000
- Implementation of a patient portal and tailored patient-reported outcome measures to improve health problem detection and retention in HIV care: the DRHIVE Study. *CIHR; Dr. Bertrand Lebouché (Co-Principal Investigator), Dr Tibor Schuster (Co-Principal Investigator)*. \$100,000
- Measuring vaccine hesitancy and examining reasons behind vaccination choices for the COVID-19 vaccines in patients followed in primary care clinics. *CIHR; Dr. Alexandra de Pokomandy (Principal Investigator)*. \$199,900
- Creating a learning health system to improve cancer prevention in people living with HIV. *CIHR; Dr. Alexandra de Pokomandy (Principal Investigator)*. \$554,625
- Measuring the impact of social determinants of health on mortality and health service use of the diversity of persons with dementia to inform equitable policies and practices. *Réseau*

Québecois de Recherche sur le Vieillissement; Dr. Isabelle Vedel (Principal Investigator).
\$25,240

- Understanding and improving the care of men and women with dementia across four Canadian provinces during and after the COVID-19 pandemic. *Canadian Consortium on Neurodegeneration in Aging (CCNA)'s Women, sex, gender & dementia (WSGD) program funding competition;* Dr. *Machelle Wilchesky (Principal Investigator), Dr. Isabelle Vedel (Co-Principal Investigator).* \$90,000
- Appuyer les intervenants en CHSLD à offrir de meilleurs soins aux personnes âgées ayant une perte de vision et/ou d'audition en pandémie (COVID-19) : Une approche collaborative intersectorielle de transfert de connaissances. *FRQS;* Dr. *Machelle Wilchesky (Principal Investigator).* \$100,000
- Unité de soutien des systèmes de santé apprenant du Québec (Quebec SPOR SUPPORT Unit). *CIHR; Dr. Pierre Pluye (Co-Principal Investigator).* \$13,748,750
- Reactive oxygen and nitrogen species-induced protein modifications cause phenotypic switching of vascular cells in hypertension. *Wellcome Trust Institutional Strategic Support Fund;* Dr. *Rhian Touyz (Principal Investigator).* \$56,070
- Vascular effects of SARS COV 2 infection and long-term impact on hypertension. *Heart Research UK;* Dr. *Rhian Touyz (Co-Principal Investigator).* \$218,154.51
- MINDSHIFT (Mechanistic Integration of vascular and endocrine pathways for subtyping hypertension: an innovative network approach for future generation research training). *European Research Council;* Dr. *Rhian Touyz (Co-Principal Investigator).* \$962,000
- *BHF PhD Programme;* Dr. *Rhian Touyz (Principal Investigator).* \$882,000
- Training Intervention and Program of Support (TIPS) for fostering the adoption of family-centred telehealth interventions in pediatric rehabilitation: A pan-Canadian implementation-effectiveness study. *CIHR; Dr. Tibor Schuster (Co-Principal Investigator).* \$824,701
- COVID-19 in the Orthodox Jewish Community of Montreal: A mixed-methods study of immunity integrating anthropology, epidemiology and immunology. *Public Health Agency of Canada;* Dr. *Tibor Schuster (Co-Principal Investigator), Dr. Tracie Barnett (Co-Principal Investigator)* \$1,244,945
- Developing a toolbox to configure and facilitate the uptake of patient portals, AI-based chatbots and PROMs in the treatment of diverse and vulnerable patient populations. *Soutien au développement pour l'Unité de soutien SSA Quebec;* Dr. *Tracie Barnett (Principal-Investigator).* \$132,000

Awards & Recognitions

Members of our Department are very active within the University and are involved in Faculty initiatives, including the development of the Faculty's Strategic Research Plan, the Postgraduate Education Program, the Undergraduate Curriculum Reform, the Faculty Leadership Council, the Centre for Medical Education, and others. Here are just some of the recognitions received in 2021:

FRQS Chercheur Boursier Clinicien - Senior
Dr. Isabelle Vedel

Recognition by Canadian Medical Association Journal for Excellence in external review of manuscripts
Dr. Mark Yaffe

The Pierre Pluye International Mixed Methods Thesis & Dissertations Awards in Family Medicine Education
Dr. Pierre Pluye

NAGS Doctoral Teaching
Dr. Pierre Pluye

Visiting Professorship, University of Foggia, Foggia, Italy
Dr. Yvonne Steinert

Meredith Marks Mentorship award from Memorial University
Dr. Yvonne Steinert

Life Membership, College of Family Physicians of Canada for contributions to family practice, as a teacher, examiner, scholarly activity and advancing family medicine in Canada
Dr. Yves Bergevin

Publications

Journal Articles (150)

1. Abbasgholizadeh Rahimi S, Rodriguez C, Croteau J, Sadeghpour A, Navali AM, Légaré F. Continuing professional education of Iranian healthcare professionals in shared decision-making: lessons learned. *BMC Health Services Research*. 2021;21(1).
2. Adams AM, Khan A, Roy AS, Hassan MT, Mridha MK, Ahmed NU, et al. Growth dynamics among adolescent girls in Bangladesh: Evidence from nationally representative data spanning 2011–2014. *PLOS ONE*. 2021;16(7 July 2021).
3. Adams AM, Rashid SF. Mobilising demand for primary health care services among urban slums: insights from a case study in Bangladesh. *Development in Practice*. 2021;31(6):726-38.
4. Alves-Lopes R, Montezano AC, Neves KB, Harvey A, Rios FJ, Skiba DS, et al. Selective Inhibition of the C-Domain of ACE (Angiotensin-Converting Enzyme) Combined with Inhibition of NEP (Neprilysin): A Potential New Therapy for Hypertension. *Hypertension*. 2021;604-16.
5. Arora AK, Ortiz-Paredes D, Engler K, Lessard D, Mate KKV, Rodriguez-Cruz A, et al. Barriers and Facilitators Affecting the HIV Care Cascade for Migrant People Living with HIV in Organization for Economic Co-Operation and Development Countries: A Systematic Mixed Studies Review. *AIDS Patient Care and STDs*. 2021;35(8):288-307.
6. Arora AK, Rodriguez C, Carver T, Teper MH, Rojas-Rozo L, Schuster T. Evaluating Usability in Blended Learning Programs Within Health Professions Education: a Scoping Review. *Medical Science Educator*. 2021;31(3):1213-46.
7. Arsenault-Lapierre G, Henein M, Gaid D, Le Berre M, Gore G, Vedel I. Hospital-at-Home Interventions vs In-Hospital Stay for Patients with Chronic Disease Who Present to the Emergency Department: A Systematic Review and Meta-analysis. *JAMA Network Open*. 2021.
8. Arsenault-Lapierre G, Henein M, Rojas-Rozo L, Bergman H, Couturier Y, Vedel I. Primary care clinicians' knowledge, attitudes, and practices concerning dementia: They are willing and need support. *Canadian Family Physician*. 2021;67(10):E275-E9.
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10. Arsenault-Lapierre G, Henein M, Rojas-Rozo L, Sourial N, Bergman H, Couturier Y, et al. Erratum: Primary care clinicians' knowledge, attitudes, and practices concerning dementia. They are willing and need support (Canadian Family Physician (2021) (731-735) DOI: 10.46747/cfp.6710731). *Canadian Family Physician*. 2021;67(12):883.
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12. Arsenault-Lapierre GP, Henein M, Rojas-Rozo L, Bergman H, Couturier Y, Vedel I. Primary care clinicians' knowledge, attitudes, and practices concerning dementia: They are willing and need support. *Canadian Family Physician*. 2021;67(10):731-5.
13. Barnett TA, Contreras G, Ghenadenik AE, Zawaly K, Van Hulst A, Mathieu MÈ, et al. Identifying risk profiles for excess sedentary behaviour in youth using individual, family and neighbourhood characteristics. *Preventive Medicine Reports*. 2021;24.
14. Baumgartner H, De Backer J, Babu-Narayan SV, Budts W, Chessa M, Diller GP, et al. 2020 ESC Guidelines for the management of adult congenital heart disease: The Task Force for the management of adult congenital heart disease of the European Society of Cardiology (ESC). Endorsed by: Association for European Paediatric and Congenital Cardiology (AEPC), International Society for Adult Congenital Heart Disease (ISACHD). *Revista Espanola de Cardiologia*. 2021;74(5):436.e1-.e79.
15. Baumgartner H, de Backer J, Babu-Narayan SV, Budts W, Chessa M, Diller GP, et al. 2020 ESC Guidelines for the management of adult congenital heart disease. *European Heart Journal*. 2021;42(6):563-645.
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23. Breault P, Nault J, Audette M, Échaquan S, Ottawa J, Szafran O, et al. Improving preventive screening with indigenous patients. *Canadian Family Physician*. 2021;67(8):E217-E23.
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