ANNUAL REPORT

2021
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OUR DEPARTMENT

Mission

Who we are, how we work toward our vision and what makes us unique. We deliver state-of-the-art (tertiary) medical care in a patient-centered, effective and efficient manner. We train the next generation of academic internists and subspecialists who innovate and excel in lifelong learning. We are leaders in key areas of biomedical research and innovation at a national and international level.

Vision

Looking ahead. To be a national leader in (tertiary) patient care, medical education and biomedical research with international recognition in priority areas.

Core Values

Guiding principles of our work and how we operate. Patients always come first. We treat each other with respect. We do what we say we do. We hold each other accountable for what we do. We innovate and commit to continuous learning. We embrace change as an opportunity. We welcome competition as a driver of quality and innovation.
A Message from the Department Head

Working together as a team has continued to be instrumental in our ability to deal with the past year’s exceptional challenges that were superimposed by the COVID-19 pandemic and profound transformation of the provincial health system.

My sincere appreciation and thanks to all of you, in particular to our critical care, general internal medicine, and infectious diseases colleagues and their staff, who have worked tirelessly to care for our COVID-19 patients.

Over the past academic year, numerous faculty and staff members have continued to actively serve as key advisors on provincial committees and task forces, working collaboratively with their colleagues in the department, the University of Manitoba, WRHA, Shared Health and across the country. Many of you playing leading roles in delivering health care at the front lines, advancing our knowledge of SARS-CoV-2, discovering tools to combat COVID-19, and, in the midst of this all, continued to strive for change in our healthcare system that will allow us to serve our patients better in the future.

As always, we did some things right; with many others, there remains room for improvement. Dealing with the pandemic and its challenging consequences (including staffing issues and backlogs) and the ongoing provincial health system transformation will continue to require our full attention in the next year and beyond.

With challenges come opportunities. We are a strong team. We will recognize and take advantage of those opportunities. Together, we will continue to be successful in advancing our academic mission and delivering exemplary health services to our patients.

My deepest appreciation and thanks to you all for your unwavering commitment, ongoing support, incredible hard work, exemplary professionalism and leadership during yet another exceptionally challenging and demanding year!

Eberhard Renner, MD, FRCPC, FAASLD
Professor and Department Head, Internal Medicine
Overview

The Department of Internal Medicine at the University of Manitoba’s Rady Faculty of Health Sciences is the largest academic department of the Max Rady College of Medicine. In support of the academic mission, the department has more than 55 faculty members with protected research time, 12 full-time UMFA members, nine endowed research chairs and two professorships. We will have trained more than 125 residents in the 2021-2022 academic year and have two Area of Focused Competence (AFC) programs in hepatology and interventional cardiology. The department supports tertiary care and quaternary care medicine for the Province of Manitoba and parts of northwestern Ontario and Nunavut – a catchment area consisting of over 1,500,000 people.

The Department of Internal Medicine has six clinical teaching units (CTUs) and is affiliated with our three academic health centres, the Health Sciences Centre (HSC), St. Boniface Hospital (SBH) and Grace Hospital (GH). The CTUs are the focal point of the inpatient training programs for medical residents and students rotating through medicine. The Max Rady College of Medicine partners with both Shared Health and the Winnipeg Regional Health Authority (WRHA). Shared Health is responsible for the provincial planning and integration of health services, provides coordinated support to the service delivery organizations and oversees the operations at HSC. WRHA oversees the health operations of Winnipeg urban hospitals (excluding HSC), including Churchill Health Centre, community health agencies, home care, public health, mental health services and long-term care facilities.

2021 AT A GLANCE

Subspecialty sections: 17
Total faculty: 386
Postdoctoral fellows: 4
Faculty with Master’s: 58
Faculty with PhDs: 28
Faculty protected research EFT: 41.5
Endowed research chairs: 9
2021 new faculty recruits: 25
Clinical teaching units: 6
Teaching hospitals: 3
2021-2022 residents: 125
International residents: 2
Areas of focused competence (AFC) programs: 2
Total awarded grant funding: over $7.5M
Research endowment market value: $38M
Online Presence

Website
UM launched its new website, the Next Generation Website Experience (NGWE), in fall 2020. This allows for faculties and units to customize and create a user-friendly information resource for internal and external colleagues as well as existing and potential students.

The Department of Internal Medicine’s website went live in July 2021 and can be found here: https://umanitoba.ca/medicine/department-internal-medicine

Highlights:
• Training programs information – residency, undergrad electives, fellowships, physician assistant programs
• Endowed research chairs and professorships
• Researcher profiles
• Contact information

WIKI
The Wiki, a social software system originally named after Hawaiian shuttle buses “wiki wiki”, is a quick and easy way to access a plethora of information from processes, policies and contact information. It encourages online collaboration where users can create, edit or share pages easily. This allows access to information from your home or office, something that has served us well recently.

Started in 2017, the department wiki can be found here: https://wiki.umintmed.ca/index.php?title=Main_Page

Highlights:
• Staff roles and contact information
• Department policies and processes
• Organizational structure

BLOG
Go to the link below to view the latest department blog: https://n.umintmed.ca
A Message from the Managing Director

“We Can Do It!” Iconic words many of us associate with the 1940’s Rosie the Riveter posters. Today these words continue to symbolize resilience, perseverance and teamwork. Throughout this year we have faced challenges that none of us had ever envisioned. The impacts of COVID-19 cannot be understated. Our resilience, perseverance and teamwork will continue to be vital in shaping our path to healing and recovery.

I had the privilege of joining the Department of Internal Medicine team in May of this year. I have spent time understanding processes, learning about the sections and getting to know the incredible staff. Participating in conversations for the future and determining in collaboration with department leadership where, outside of COVID, our focus and priorities need to rest in updating the department’s Strategic Plan.

As you read our Annual Report, you will notice a number of the remarkable achievements of this year - the ongoing and evolving project of the Elgin School, transformational research and scholarly work, and our commitment to recruiting passionate and innovative talent, building on our comprehensive team of dedicated physicians, faculty and support staff. While COVID-19 continues to be a priority, we have shifted our focus to lead and empower recovery, moving forward within the department, the Health System as a whole and generally across Canada and around the globe.

Reconciliation is always front-of-mind for Canadians, September 30th, the National Day for Truth and Reconciliation became a designated closure at the University. A day of remembrance honouring the lost children and survivors of residential schools, their families and communities. An integral day to reflect on a tragic history and the responsibility that we all have to learn more and support the process of truth and reconciliation and the calls to action. We are committed to moving forward with reconciliation and support a future focused on diversity, equality and respect.

This year also marked a new key milestone with the celebration of the first-ever Canadian Women Physicians Day on March 11th. This date was selected as it was the date of licensure of Dr. Jennie Trout, the first woman licensed to practice medicine in Canada. Dr. Trout was a spirited advocate supporting medical education for women. March 11th allows for the recognition of the trailblazing women who paved the way and to celebrate women in medicine who continue to aspire and achieve.

As a mom of two young girls, both interested in medicine, one in the human kind and the other in the canine variety, I see the importance of building on the foundation set by Dr. Trout and continuing to advance diversity and equity in the field of medicine. The renewal of the department’s strategic plan will continue to support this as a priority item for action, utilizing our Women in Science in the Department of Internal Medicine Committee for support, advocacy and leadership in this area.

As we look at the year ahead, a number of the key priority areas will continue to be on patient quality of care, innovation in ambulatory care, expansion of IT systems, enhancing the support to our educators and researchers, and development of appropriate mentorships programs, to highlight a few. I am excited for the opportunities that will arise, the new milestones that will be reached, the knowledge that will be gained and the improvements that will be seen. As a department, we have shown we are capable of leading change. Our foundation, built on strength, resilience and teamwork will aid with recovery and healing. I look forward to all we will accomplish together in the year ahead. Together we can do it!
Our Leadership

Department Head
Dr. Eberhard Renner

Managing Director
Hana Forbes

Associate Heads
Dr. Nick Hajidiacos, Clinical Services
Dr. Jillian Horton, Diversity and Professionalism
Dr. Pamela Orr, Education
Dr. Hani El-Gabalawy, Research

Section Heads
Dr. Christine Peschken*, Allergy and Clinical Immunology
Drs. Kevin Coombs and Hani El-Gabalawy*, Biomedical Proteomics
Dr. Davinder Jassal, Cardiology
Dr. Bojan Paunovic, Critical Care
Dr. Marni Wiseman, Dermatology
Dr. Pamela Katz, Endocrinology
Dr. Donald Duerksen, Gastroenterology
Drs. Patrick Griffin* and Ken Van Ameyde*, General Internal Medicine
Dr. Philip St. John, Geriatric Medicine
Dr. Leonard Minuk, Hematology and Oncology
Dr. Eberhard Renner*, Hepatology
Dr. Yoav Keynan, Infectious Diseases
Dr. Joe Bueti*, Nephrology
Drs. Brian Schmidt* and Dan Roberts*, Neurology
Dr. Ryan Skrabek, Physical Medicine and Rehabilitation
Dr. Martha Ainslie, Respiratory Medicine
Dr. Christine Peschken, Rheumatology
*Indicates acting

Standing Committees

Executive

Financial Oversight and Advisory

Postgraduate Medical Education

Promotion and Tenure

Research and Faculty Development

Senior Advisory
Physician Services Management Team

The physician services manager (PSM) team provides human resources, financial, facility and project management as well as administrative operations support for all research activities within the Department of Internal Medicine. This includes responsibilities such as multi-employer staff recruitment, payroll, accounting and providing guidance and assistance to faculty and staff on department and institutional policies and processes. They are also responsible for managing the administrative support team at HSC. The PSMs provide these functions for assigned portfolios within the department.

Who are our PSMs?

Kim Armitt
Biomedical Proteomics
Dermatology
Endocrinology and Metabolism
Gastroenterology
Hepatology

Ashley Watsko
Cardiology
Neurology
Respiratory Medicine

Tracey Burton
Critical Care
Hematology and Oncology
Nephrology

Kaley Wusaty-Phillips
Allergy and Clinical Immunology
General Internal Medicine
Geriatric Medicine
Infectious Diseases
Physical Medicine and Rehabilitation
Rheumatology
Support Staff

Administrative Team

Made up of nearly 50 personnel, the Department of Internal Medicine administrative team is an integral component of the organization and plays a significant role in department operations. They support our academic mission by performing day-to-day secretarial tasks and duties to support our faculty members. The admin team provide support in patient care, academic and administrative activities as well as research. From calendar management and scheduling, to timekeeping, CV upkeep, minute taking, transcription, event planning, billing submissions and booking travel—the team is a key component to the efficiency of the physicians and the department.

Over the past year, the team has encountered many changes in policies, procedures and their environment and have been able to overcome these challenges. Despite the unknowns, the team has remained dedicated to their roles more than ever. Navigating working remotely and moving to unfamiliar virtual platforms, together, they presented resilience and optimal change management skills.

We have come so far, and we couldn't have done this without each of them. They are valued, respected and essential to the day-to-day function of our department. We will continue to support each other, as we take on the days ahead and look forward to what the next chapter brings!

We would like to acknowledge and thank all department support teams that continue to be crucial to achieving our MISSION and VISION:

- Accuro Support
- Department Administration
- Education Programs
- Finance
- IT Support
- Methods, Standards and Innovation
- Physician Services
- Transcription Services
A Message from the Associate Head of Diversity and Professionalism

Recently, I was part of a panel with a distinguished physician, Dr. Ronald Epstein. Our host asked us a question that began by referring to the current year as “unprecedented.” Dr. Epstein politely challenged that assertion. He reminded our host that pandemics have occurred for all of recorded history. Furthermore, he invited us to recall the catastrophes that humanity has lived through in the last century alone—world wars, nuclear disasters and massive political unrest. I agreed with him wholeheartedly, pointing out the private emergencies and crises we have all faced at some point in our lives.

While the nature of current events feels unique, our suffering is not unprecedented. Canadian data told us that before the pandemic, physician burnout was already a crisis. The literature on burnout is exceedingly clear; organizational factors are the primary drivers of burnout. But what is the opposite of burnout? What is it we are working towards?

The Stanford Well MD Model of Professional Fulfillment is an heuristic we should all internalize. The model tells us that our professional fulfillment requires three things: efficiency of practice, personal resilience and a culture of wellness. If we want to experience professional fulfillment at work, we need all three of these things.

The pandemic has meant that our cognitive energies necessarily shifted towards survival. But now, as the acute crisis begins to fade into a more chronic emergency, we have to turn our attention back towards the possibility of fulfillment. The performance—if not the survival—of our organizations depend on creating fulfilling work environments.

Where can we begin? Those who are leaders need to become familiar with—and strive to embody—the leadership characteristics that have been shown in the physician health literature to promote a culture of wellness. Those who aspire to be leaders can take on roles as champions of physician health and work to bring evidence-based initiatives that touch on all aspects of fulfillment to their cohorts, so none is left behind. Each of us can further develop our personal resilience through any number of means supported in the physician health literature. And, to compliment both departmental and university-wide efforts to further equity, diversity and inclusion (EDI), each of us can accept personal responsibility for our role in promoting or obstructing real EDI and belonging in our sections.

We set out to change problems, not culture. Culture change is a byproduct of successfully addressing problems. We must be ready to name our problems and do the work of creating, among other things, a healthier work environment. If we can do that—it will truly be unprecedented.
SECTION OVERVIEWS

Allergy and Clinical Immunology

Overview
The Section of Allergy and Clinical Immunology focuses on the diagnosis and management of allergic disorders, asthma, chronic urticaria, angioedema, drug allergy, stinging insect allergy as well as immunodeficiency.

New Faculty
• Dr. Lundy McKibbin joined the department (Nov. 2021)

Clinical Highlights
• Predominantly an outpatient ambulatory care specialty
• Inpatient consultation at all WRHA hospitals
• Outpatient clinics at HSC and Grace

Academic Highlights
• High demand for rotations by residents through our Royal College approved training program
• Involvement of subspecialty and internal medicine residents as well as medical students in a variety of research projects
• Dr. Karver Zaborniak was appointed postgraduate medical education (PGME) program director (July 2021)

Top Publications
• Review of icatibant use in the Winnipeg Regional Health Authority. Allergy Asthma Clin Immunol. 2020 Nov 11. PMID: 33292436
• Adult-onset IgE-mediated food allergy at a Winnipeg allergy clinic: a case series. Allergy Asthma Clin Immunol. 2020 Sep 29. PMID: 33014083
• Delivery of subcutaneous immunoglobulin by rapid "push" infusion for primary immunodeficiency patients in Manitoba: a retrospective review. Allergy Asthma Clin Immunol. 2020 May 13. PMID: 32426003

Biomedical Proteomics

Overview
The Manitoba Centre for Proteomics and Systems Biology (MCPSB) and the Section of Biomedical Proteomics was established to use high content approaches to study questions of biological and medical relevance. The MCPSB is dedicated to the promotion and practice of systems biology and proteomics in Manitoba, both in academia and industry. The Centre also functions as a resource for the research community of Manitoba offering intellectual and technical expertise on a collaborative basis.

New Faculty
• Dr. Heather Armstrong joined the department (Sep. 2021)
Clinical Highlights
• 10,000 square foot biological laboratory space and office facility
• Consolidation of expertise in several areas of basic and clinical research at one site to encourage interaction, discussion and collaboration
• Acquisition and processing of clinical samples in a safe manner, as approved by the CRRC, has continued on a limited scale
• COVID restrictions easing have allowed lab activities to expand again (summer/fall 2021)

Research Highlights
• New innovative methods development procedures published by members (see publication)
• New anti-viral drug methods being evaluated for industrial partners
• Practical applications of biomarker discovery being applied to arthritis point-of-care
• New leadership at HSC/Shared Health Research has begun to facilitate the process of impact approval for clinical research protocols and the launch of RITHIM promises to further streamline and facilitate these processes
• Rheumatology biomarker studies beginning to provide new insights and approaches to the prediction and prevention of rheumatoid arthritis in at-risk individuals

Top Publications
• Disrupting tryptophan in the central hydrophobic region selectively mitigates immunomodulatory activities of the innate defense regulator peptide IDR-1002. J Med Chem. Epub 2021 May 11. PMID: 33974425
• Confident identification of citrullination and carbamylation assisted by peptide retention time prediction. J. Proteome Res. 2021 Mar 5. PMID: 33523662

Administrative Highlights
• Drs. Kevin Coombs and Hani El-Gabalawy were appointed as acting co-section heads
• Dr. Neeloffer Mookerjee was promoted to Professor
• Dr. Oleg Krokhin received Tenured Professor Status
• Dr. Neeloffer Mookerjee was selected as a Canadian Institutes of Health Research (CIHR) Gender STI’s Woman In Leadership, member of the Canada Gairdner Awards Medical Review Panel and invited member of the CIHR Institute Advisory Board for the Institute of Gender and Health

Faculty Members

Cardiology
Overview
There are approximately 30 full-time GFT academic cardiologists within the section with major academic and clinical responsibilities in interventional cardiology, electrophysiology, echocardiography, cardiac computed tomography and magnetic resonance imaging, nuclear cardiology, cardiac rehabilitation, and heart failure and cardiac transplantation.

New Faculty
• Dr. Steven Promislow joined the department (Jan. 2021)
Clinical Highlights

- Provides cardiac care to individuals in Manitoba, northwestern Ontario and Nunavut
- Cardiac care centered at St. Boniface Hospital, one of the busiest tertiary cardiac facilities in Canada
- 12,500 outpatient clinic visits, 1,200 CCU admissions and more than 2,000 ward admissions annually
- Annual statistics on procedures performed:
  - 75,000 ECGs, 2,700 Holters, 7,100 stress tests, 18,500 echocardiographic studies, 3,600 nuclear studies, 750 cardiac MRIs
  - 5,500 cardiac catheterization; 2,600 percutaneous interventions (2nd largest in Canada)
  - 650 pacemaker implants, 300 ICD/CRT implants, 12,000 device interrogations, 350 EP ablations

Academic Highlights

- Teaching Recognition and MMSA Awards (Feb. 2021)
- MMSA nominations for best course Cardiovascular I and Cardiovascular II, including teaching nominations for 15 section members
- Dr. Clarence Khoo received the Class of 2022 Award for Inspiration recipient
- Dr. Mahwash Saeed was appointed curriculum director, Max Rady College of Medicine (consolidation co-leader)
- Drs. Mahwash Saeed (until Jun. 30/21) and Justin Cloutier are the co-directors of the consolidation module
- Dr. Anita Soni is the cardiovascular course lead

Research Highlights

- Collaboration with the Institute of Cardiovascular Sciences (ICS) at St. Boniface Albrechtsen Research Centre (SBRC) and the WRHA Cardiac Sciences Program (CSP)
- Major areas of research:
  - Translational research and metabolic studies in heart failure
  - Cardiovascular bioinformatics
  - Population health, outcomes research, and prevention policy
- Five clinician investigators—ICS and SBRC members; Drs. Amir Ravandi, Shuangbo Liu, Ashish Shah, Shelley Zieroth, and Davinder S. Jassal
- State-of-the-art small animal imaging facility and animal endovascular angiography facility
- Cardiovascular lipidomics laboratory; the only facility of its kind in Canada dedicated to targeted and non-targeted lipidomic analysis of cardiovascular disease
- Members participate and lead investigator initiated national studies, registry design and analysis, and multicenter investigations
- Involved in over 70 clinical trials

Top Publications

- Metabolomic Signature of Human Aortic Valve Stenosis. JACC Basic Transl Sci. 2020 Dec 16. PMID: 33426374
- The Cardioprotective Role of Flaxseed in the Prevention of Doxorubicin- and Trastuzumab-Mediated Cardiotoxicity in C57BL/6 Mice. J Nutr. 2020 Sep 1. PMID: 32510147
- Effect of e-Cigarettes Plus Counseling vs Counseling Alone on Smoking Cessation: A Randomized Clinical Trial. JAMA. 2020 Nov 10. PMID: 33170240
- Transcatheter Mitral Valve Replacement After Surgical Repair or Replacement: Comprehensive Mid-Term Evaluation of Valve-in-Valve and Valve-in-Ring Implantation from the VIVID Registry. Circulation. 2021 Jan 12. PMID: 32975133
Administrative Highlights
- Dr. Shelley Zieroth was promoted to Professor
- Dr. Anita Soni was promoted to Associate Professor
- Dr. Basem Elbarouni was promoted to Associate Professor
- Dr. Shelley Zieroth is the Scientific Planning Committee (SPC) chair for the Canadian Cardiovascular Congress (2020-2022)
- Dr. Davinder S. Jassal is the President of the Canadian Society of Echocardiography (2020-2022)

Critical Care

Overview
The section originated as part of the Department of Internal Medicine, and remains so today, though there are more than 30 intensivists on our faculty that come from a variety of departments including anesthesia, emergency medicine, general internal medicine and surgery. The section is active in education, research and outcomes improvement.

Clinical Highlights
- The mission of the Critical Care Outcomes Improvement Team (OIT) is to establish a process and systems-based approach for continuously improving safety, quality and outcomes of care provided in our intensive care units (ICUs):
  - Each ICU has a quality circle organized on the established principles of total quality management, including multidisciplinary bedside staff and unit leadership; charged with implementing directed priorities as well as locally developed projects within each unit
  - A steering committee sets overall system priorities and provides data and analytical support to the quality circles; co-chaired by Drs. Kendiss Olafson and Carmen Hrymak
- Provides critical services for adults in Manitoba, northwestern Ontario and Nunavut; critical care transport, including specially equipped aircraft, is integral to our clinical work
- Five ICUs in two academic/tertiary hospitals
  - HSC: medical ICU, surgical/trauma ICU and intermediate ICU
  - SBH: medical-surgical ICU and cardiovascular surgery ICU
- One ICU at Grace Hospital (community-based): medical-surgical ICU
- ICUs have advanced support capability; invasive mechanical ventilation, continuous renal replacement therapy and extra-corporeal membrane oxygenation
- Provide care to approximately 5,000 patients admitted to our ICUs each year

Academic Highlights
- Provides comprehensive medical education for medical students, residents in a variety of specialties and subspecialty critical care residents
- Rotating residents with scheduled didactic lectures related to core critical care concepts as well as high-fidelity simulation related to acute/critical medical event management and team communication
- Didactic, high-fidelity simulated and experimental learning opportunities for critical care subspecialty residents through the course of their 24-month academic curriculum

Research Highlights
- Dr. Asher Mendelson was the 2021 New Investigator Award recipient
Top Publications
- Association of Severe Trauma With Work and Earnings in a National Cohort in Canada. JAMA Surg. 2021 Jan 1. PMID: 33112383

Administrative Highlights
- Dr. Alan Garland was appointed critical care research lead
- Dr. Faisal Siddiqui received the 2021/2022 MMSA Executive Council Honorary Senior Stick and Med III Clerkship Class of 2021 Clinical Teaching (attending) award

Faculty Members

Dermatology
Overview
The Section of Dermatology provided medical and surgical intervention in the prevention, recognition and treatment of diseases of the skin, hair and nails—offering comprehensive and specialized care to Manitobans.

Clinical Highlights
- Community clinics provided through physician private practices in Winnipeg
- Outpatient services provided at HSC
- Monthly journal club and clinical meetings held to discuss interesting and challenging patient cases
- Proud supporters of the annual Teddy Bears’ Picnic

Academic Highlights
- Pleased to welcome the first dermatology resident into the new combined residency program with the University of Toronto
- Members are actively involved in resident and medical student education

Top Publications
Endocrinology and Metabolism

Overview
The Section of Endocrinology and Metabolism, consists of members practicing across two academic hospitals and two private community sites. The section has a strong commitment to the provision of clinical services, undergraduate and postgraduate education, basic and clinical research and quality improvement.

New Faculty
- Dr. Alexandra Bussières joined the department (Apr. 2021)
- Dr. Riley Epp joined the department (May 2021)

Clinical Highlights
- Provide on-call services throughout Manitoba, northwestern Ontario and Nunavut
- Clinical expertise in diabetes and all areas of endocrinology, offering focused specialty clinics in metabolic bone disease, thyroid cancer and dyslipidemia
- New diabetes in pregnancy clinic focused on the care of women living with pregestational, preconception, during pregnancy and postpartum, and gestational diabetes
- Strong collaborative team of experienced and dedicated educators, practicing as a multidisciplinary care model
- Contributions to the development of national and international clinical practice guidelines in areas such as diabetes and osteoporosis
- Interdepartmental collaborations; family medicine, laboratory medicine, neurosurgery, general and head and neck surgery
- Continued adaptation of clinical services to safely serve our patient population through the pandemic, adding online educational classes and virtual appointments.
- Provided additional staffing coverage to the clinical teaching unit and COVID wards
  - Dr. Sora Ludwig completed her term as SBH endocrinology site director after 20 years of service
  - Dr. Pamela Katz appointed SBH endocrinology site director

Academic Highlights
- Actively involved in undergraduate and postgraduate education, as well as continuing professional development
- Highly ranked undergraduate (program course director, Dr. Veena Agrawal)
- Active participation in lecture and small group interactive tutorials
- Several nominations for 2021 teaching awards
- Offering a two-year Royal College accredited postgraduate training program; includes clinical exposure, mentorship and research training designed to prepare trainees for a successful career in an academic or community setting
- Dr. Isanne Schacter, the postgraduate subspecialty residency training program director, is heavily involved in development of the endocrinology national in-training examination (ITE)

Research Highlights
- Dr. Jennifer Yamamoto was awarded the Henry G. Friesen Professorship in Endocrinology

Top Publications
- Fracture prediction from FRAX for Canadian ethnic groups: A registry-based cohort study. Osteoporos Int. 2021 Jan. PMID: 32809043
- Improved prediction of fracture risk leveraging a genome-wide polygenic risk score. Genome Med. 2021 Feb. PMID: 33536041


Administrative Highlights
- Dr. Carmen Hurd was promoted to Associate Professor
- Dr. Carmen Hurd was appointed endocrinology site director (HSC)

2021 Faculty/Resident Awards
- Dr. Isanne Schacter was appointed the 2020/2021 MMSA Honorary Senior Stick

Gastroenterology

Overview
Based at the HSC and SBH, the Section of Gastroenterology provides research, education and specialized care for a wide spectrum of gastrointestinal (GI) disorders.

New Faculty
- Dr. Evan Elias joined the department (July 2021)

Clinical Highlights
- Gastroenterology outpatient care provided at HSC and SBH
  - Development of a new inflammatory bowel disease (IBD) subspecialty outpatient clinic at HSC
- Provide clinical services for Manitoba, northwestern Ontario and Nunavut
- Coordinates the Emergency Endoscopy On-call Service for the WRHA, based out of HSC, SBH and GH

Academic Highlights
- Coordinates teaching in gastroenterology at the University of Manitoba at undergraduate and postgraduate levels, and ongoing continuing medical education programs for medical professionals

Research Highlights
- Active research in IBD, GI cancers, celiac disease, functional disorders, quality in endoscopy and nutritional support

Top Publications
- Persistently High Rate of Venous Thromboembolic Disease in Inflammatory Bowel Disease: A Population-Based Study. Am J Gastroenterol. 2021 Jul 1. PMID: 33767104
- Achieving Histologic Normalization in Ulcerative Colitis Is Associated With a Reduced Risk of Subsequent Dysplasia. Inflamm Bowel Dis. 2021 May 25. PMID: 34037230
Administrative Highlights

- Dr. Moffatt is leading the Provincial Endoscopy Task Force, examining resource optimization and wait list management.

General Internal Medicine

Overview

The Section of General Internal Medicine (GIM) includes a diverse group of over 60 full- and part-time faculty members, providing busy in and outpatient clinical services at three teaching hospitals in Winnipeg.

New Faculty

- Dr. Rahul Mehta joined the department (Jan. 2021)
- Dr. Mathieu Labossière joined the department (Apr. 2021)
- Dr. Elise Crocker joined the department (Jul. 2021)
- Dr. Aimee Li joined the department (Sep. 2021)

Clinical Highlights

- Diverse group of more than 60 full-time and part-time faculty members
- Busy inpatient and outpatient clinical services at the three major teaching hospitals in Winnipeg
- Provides clinical services in six clinical teaching units, inpatient consultative services, and numerous ambulatory care clinics
- Ambulatory care clinics offer post-admission follow-up for patients admitted to the internal medicine wards in addition to GIM referrals received from primary care providers, and referrals and consults from the emergency departments

Academic Highlights

- Faculty members actively participate in undergraduate and postgraduate education
- Program designed to provide residents with the broadest clinical experience that will afford the best opportunity to attain knowledge, skills and attitudes to become a strong clinical physician and to practice internal medicine in the most exemplary manner
- Dr. Michael Sochocki stepped down as PGME co-program director
- Dr. Tyler Friesen was appointed PGME program director
- Drs. Aditya Sharma and Michael Semus were appointed associate core program directors

Administrative Highlights

- Dr. Charles Penner was promoted to Associate Professor
- Dr. Jillian Horton was promoted to Associate Professor
- Dr. Nick Hajidiacos was promoted to Associate Professor
Geriatric Medicine

Overview
As the first academic Section of Geriatric Medicine in Canada, our group has a strong history of providing extensive and integrated clinical services, research and academic contributions to the specialty.

New Faculty
• Dr. Joëlle Bourgeois-Gosselin joined the department (Oct. 2021)

Clinical Highlights
• Attend on inpatient units, provide consultation services, busy outpatient clinics and provide support to community outreach teams
• Four geriatric day hospitals in Winnipeg
• Geriatric Program Assessment Teams, offering home visits
• Strong link between the geriatricians and rural physicians, care of the elderly physicians and geriatric psychiatry

Academic Highlights
• Two-year subspecialty residency training program in geriatric medicine accredited by the Royal College of Physicians and Surgeons of Canada.
• Program designed to provide trainees with a strong core of clinical experience in geriatrics
• Offers longitudinal teaching clinics

Research Highlights
• Involved with the Manitoba Follow-up Study, a cohort study commenced in 1948
• Involved with the Manitoba portion of the Canadian Longitudinal Study on Aging (CLSA)
• Ongoing quality improvement projects
• Collaborations with other faculty and other universities

Top Publications
• Patterns of functional impairment over time amongst older men— the Manitoba Follow-up Study. Can Geriatr J. 2021 Jun 1. PMID: 34079608
• Multimorbidity in Canadians living in the community: Results from the Canadian Longitudinal Study of Aging. Can Fam Physician. 2021 Mar 16. PMID: 33727380
The Section of Hematology and Oncology, in affiliation with CancerCare Manitoba (CCMB), is a research-oriented group that offers comprehensive care to adults in Manitoba with cancer and serious blood disorders. The section consists of more than 40 full- and part-time faculty members.

### New Faculty
- Dr. Brett Houston joined the department (Feb. 2021)
- Dr. Hanbo Zhang joined the department (July 2021)
- Dr. Kevin Brown joined the department (Aug. 2021)
- Dr. Brady Anderson joined the department (Sep. 2021)

### Clinical Highlights
- Ambulatory care clinical services offered at HSC, SBH and Victoria General Hospital (VGH)
- Inpatient services offered at SBH and HSC, including a unit dedicated to complex hematological malignancy and Blood and Marrow Transplantation (BMT)
- Multidisciplinary clinical team includes physician and clinical assistants and nurse practitioners
- Dr. Shantanu Banerji was appointed the director of Precision Medicine and Advanced Therapeutics at CCMB; providing a number of molecular tests locally:
  - Hereditary cancer panel for Manitobans expanded from six to 30 genes
  - Updated hereditary breast and OvaCa panel from six to 10 genes
  - Updated hereditary colorectal cancer testing to new 12 gene panel
  - Implemented workflow for pan-cancer 31-gene hotspot panel in newly renovated laboratory
  - Testing of more than 350 patient tumours, which would otherwise be tested outside of Manitoba
  - Developed new Somatic BRACA1/2 NGS panel for routine testing of ovarian tumours
  - Developed a new multimodal DNA/RNA panel to detect a variety of gene mutations across cancer for implementation in 2022

### Academic Highlights
- Two distinct undergraduate courses; blood/immunology and medical oncology
- Provide Royal College accredited residency training programs in hematology and medical oncology
- Offer advanced (post-residency) training in sub-specialties such as BMT, lymphoma and thoracic malignancy
- Lead annual continuing professional development sessions for primary care practitioners and specialists such as the Community Cancer Program Annual Meeting
- Blood Disorders Day and a Geriatric Oncology Day, in conjunction with CCMB Community Cancer Program
- Established research clusters in breast cancer, CLL or acute care hematology, offering specialized opportunity for junior faculty
- Clinician Investigator Program (UM)—opportunities for trainees to acquire practice research skills essential to those preparing for careers as clinician-scientists
- New resident run bone marrow biopsy procedure clinic
- Dr. Danielle Desautels was appointed PGME program director for medical oncology
Research Highlights

- More than 65 peer-reviewed publications per year
- More than six physician full-time equivalents dedicated to research
- Participation in clinical trials and leading translational research, and cancer epidemiology and health outcomes programs
- Partnership with CCMB’s Research Institute in Hematology and Oncology and the Manitoba Cancer Registry
- High profile research interests include: chronic lymphocytic leukemia (tumor bank and patient registry), acute care hematology (in collaboration with Critical Care) including anticoagulation therapy in COVID-19; treatment patterns and outcomes for frail and elderly patients with cancer; BMT registry outcomes (home to the Canadian BMT registry)

Top Publications

- Utility of the modified frailty index in predicting toxicity and cancer outcomes for older adults with advanced pancreatic cancer receiving first-line palliative chemotherapy. J Geriatr Oncol. 2020 Jan. PMID: 32798212

Administrative Highlights

- National and international senior leadership positions held with the Canadian Partnership Against Cancer, Pan-Canadian Oncology Drug Review, Canadian Agency for Drugs and Technologies in Health, Canadian Associate of Provincial Cancer Agencies, Canadian Cancer Trials Group, Cell Therapy Transplant Canada, Association of Hemophilia Clinic Directors of Canada, International Society for Biological and Environmental Repositories, the Royal College of Physicians and Surgeons of Canada, the Infectious Diseases Society of America, and the American Society of Hematology.
- Dr. Shantanu Banerji was promoted to Associate Professor
- Dr. Versha Banerji was promoted to Associate Professor
- Dr. Valeria Gordon was promoted to Associate Professor
- Dr. Debjani Grenier was promoted to Associate Professor

Hepatology

Overview

The Section of Hepatology was the first of its kind in Canada to be accredited independently from gastroenterology. Our mission is to provide excellence in clinical care, research, administration and education.

Clinical Highlights

- The section is based at HSC
- Works closely with other specialists to ensure our patients benefit from the latest diagnostic techniques and treatments
• Provide outpatient and inpatient consultation services, covering all aspects of hepatology including pre- and post-transplantation care
• Serve as the tertiary hepatology referral center for Manitoba, northwestern Ontario and Nunavut

Academic Highlights
• Offers a Royal College accredited Area of Focused Competence (AFC) program in adult hepatology and, apart from hepatology fellows, trains rotating fellows and residents from general internal medicine and gastroenterology
• All faculty participate in undergraduate medical education (UGME) training

Research Highlights
• Multi-disciplinary team clinical research conducted through our liver diseases CTU
• Research interests in viral hepatitis, auto immune liver disease, liver cancer and, in particular, non-alcoholic fatty liver disease in Canadian First Nations population.
• A CIHR-funded clinician-scientist with an active lab-based research program on the role of cancer stem cells in the pathogenesis of hepatocellular and cholangio-carcinoma

Top Publications
• Pharmacokinetics of a Once Daily Tacrolimus Formulation in First Nations and Caucasian Liver Transplant Recipients. Transpl Int. 2021 Jul 28. PMID: 34318518
• Low serum alkaline phosphatase levels in patients with chronic liver diseases: Possible contributions to disease pathogenesis. Clin Res Hepatol Gastroenterol. 2021 Jul. PMID: 33848667
• The impact of primary biliary cholangitis on non-alcoholic fatty liver disease. Eur J Gastroenterol Hepatol. 2021 Apr 1. PMID: 32541239
• Spontaneous Flares of Chronic Hepatitis B Virus in Hepatitis Be Antigen Negative Carriers Who Subsequently Clear Hepatitis B Surface Antigen. Dig Dis Sci. 2021 Jan. PMID: 32034604
• Does SEN-V and other non A-E hepatotropic viruses contribute to the development and progression of non-alcoholic fatty liver disease? Med Hypotheses 2020 Apr. PMID: 31901607

Infectious Diseases

Overview
The Section of Infectious Diseases (ID) focuses on patient care, educational, basic and clinical research activities.

New faculty
• Dr. Thomas Fear joined the department (Jan. 2021)
• Dr. Terrence Wuerz joined the department (Aug. 2021)

Clinical Highlights
• Provide in and outpatient care consultation primarily at HSC and SBH
• Oversee the community IV antibiotic clinics within Winnipeg and throughout Manitoba, northwestern Ontario and Nunavut
• Provide care for people living with human immunodeficiency virus (HIV) throughout the province

Academic Highlights
• Two-year subspecialty training program offered
• Fellowship program admits one to two fellows per year; training closely with pediatric ID fellows and medical microbiology residents
• Opportunities for joint training in ID and medical microbiology

Research Highlights
• Active areas of research include:
  - HIV and acquired immunodeficiency syndrome (AIDS) vaccine design epidemiology and pathogenesis (global health focus)
  - Nosocomial infections
  - Antibacterial resistance
  - Urinary tract infections
  - Emerging infectious diseases
  - Indigenous health and community-based HIV prevention
• Dr. Carl Boodman received the 2021 Hector Ma Award

Top Publications
• Endocarditis due to Bartonella quintana, the etiological agent of trench fever. CMAJ. 2020 Dec 7. PMID: 33288506
• In vitro activity of imipenem-relebactam against various resistance phenotypes/genotypes of Enterobacterales and Pseudomonas aeruginosa isolated from patients across Canada as part of the CANWARD study, 2016-2019. Diagn Microbiol Infect Dis. 2021 Sep. PMID: 34102373

Administrative Highlights
• Continuing to build on our team of experts by actively recruiting an infectious diseases transplant and immunocompromised host physician

Nephrology

Overview
The Section of Nephrology is a large team of academic faculty members with more than 700 interdisciplinary research, administrative and clinical personnel dedicated to providing outstanding patient-centered care, research and education in the areas of kidney disease, dialysis and transplantation.

New Faculty
• Dr. Drew Hager joined the department (July 2021)

Clinical Highlights
• 30 half-day nephrology clinics per week
• On-site nephrology consultation at three Winnipeg hospitals
• Remote telehealth support to all hospitals in Manitoba, northwestern Ontario and Nunavut
• Leaders and innovators in areas of chronic kidney disease (CKD) and transplant risk assessment, risk stratification, exercise programming in CKD, multidisciplinary care models, remote care delivery and interventional nephrology

Faculty Members
The Manitoba Renal Program and Transplant Manitoba, collectively manage more than 2000 advanced stage CKD patients, 1800 kidney failure patients on dialysis, 350 province wide satellite hemodialysis unit patients and 700 prevalent transplant Manitobans.

**Academic Highlights**

- UGME and urinary tract courses:
  - 14 section members contributed 200 hours of small group tutorial teaching for first- and second-year
  - 31 teacher recognition nominations for the 2021 Manitoba Medical Students Association (MMSA) Awards including the 2020 urinary tract course teaching sessions being nominated for best first- and second-year courses
- Dr. Trachtenberg is pursuing a two-year Clinical Investigator Program through University of Manitoba
- Strong interest across Canada for the interventional nephrology elective that is unique to Manitoba; three electives scheduled to date from across Canada
- Ongoing high interest in the nephrology training program with nine applicants for the 2021-2022 CARMs subspecialty match

**Research Highlights**

- Productive and collaborative research environment, with internationally recognized expertise in the areas of translational, clinical, epidemiologic, health economic and implementation science in both native and transplant kidney disease
- Two research clusters in kidney transplant and proteomics (HSC) and at the Chronic Disease Innovation Centre (SOGH)
- 10 core researchers; collectively holding more than $8 million in research support
- Publish more than 60 peer reviewed articles per year in top journals
- Broad research focus, structured along the following themes:
  - Optimal detection and prevention of CKD (Can-Solve CKD SPOR)
  - Outcomes and quality of life in CKD and in Kidney Failure
  - Pre-transplant alloimmune risk stratification with HLA molecular matching
  - Optimizing transplant outcomes using precision medicine approaches

**Top Publications**


**Administrative Highlights**

- Dr. Clara Bohm was promoted to Associate Professor

**2021 Faculty/Resident Awards**

- Dr. Bryce Barr received the 2020-2021 Subspecialty Resident Teaching Award
- Dr. Aaron Trachtenberg received the Pawas and Mradula Verma Fellowship for Transplant Research
Neurology

Overview
The Section of Neurology provides services in the diagnosis and treatment of conditions and disease involving the central and peripheral nervous systems.

New Faculty
• Dr. Joseph Peedicail joined the department (Jan. 2021)
• Dr. Beyza Ciftci-Kavaklioglu joined the department (Mar. 2021)
• Dr. Ankur Wadhwa joined the department (July 2021)

Clinical Highlights
• Outpatient clinics held at HSC, SBH and GH
• Inpatient services at HSC and consultation services at SBH
• Expertise in multiple sclerosis, stroke, epilepsy, movement disorders, neuro-ophthalmology, neuromuscular diseases and basic neurophysiology

Academic Highlights
• Dr. Sean Udow is the director of the neurology residency training program
• Implementation of a modular-based academic half-day curriculum with regular formative exams designed to consolidate knowledge
• Dr. Michael Cossoy is the competence committee chair
• Transitioned to competence based medical education for 2020-2021 academic year
• Residency program graduate has committed to further subspecialty training and will join the section in 2022
• Highly successful adult neurology residency training program

Research Highlights
• Vigorous research in multiple sclerosis epidemiology
• International reputation and productivity in the various research areas

Top Publications
• Uptake of influenza vaccination among persons with inflammatory bowel disease, multiple sclerosis or rheumatoid arthritis: a population-based matched cohort study. CMAJ Open. 2021 May 14. PMID: 33990365
• The Impact of Psychiatric Comorbidity on Health Care Utilization in Inflammatory Bowel Disease: A Population-based Study. Inflamm Bowel Dis. 2021 Aug 19. PMID: 33274369
• Performance of Regression-Based Norms for Cognitive Functioning of Persons With Multiple Sclerosis in an Independent Sample. Front Neurol. 2021 Jan 14. PMID: 33519702
• Status epilepticus in the Canadian Arctic: A public health imperative hidden in plain sight. Epilepsia Open. 2021 Sep 12. PMID: 34510825

Administrative Highlights
• Dr. Brian Schmidt stepped down as acting co-section head (Nov. 2021)

2021 Faculty/Resident Awards
• Dr. Ruth Ann Marrie was awarded the high distinction of membership as CAHS Fellow into the Canadian Academy of Health Sciences. Read more about this here.
Physical Medicine and Rehabilitation

Overview
The physiatrists in the Section of Physical Medicine and Rehabilitation (PMR) specialize in the area of rehabilitation medicine, dealing with muscles, bones, nerves, function and mobility.

Clinical Highlights
- Inpatient rehabilitation units at the HSC Rehabilitation Hospital and Riverview Health Centre (RHC)
- Outpatient clinics at the HSC Rehabilitation Hospital, RHC and Pan Am Clinic
- Community specialty services provided at personal care homes and the Specialized Services for Children and Youth

Academic Highlights
- Active residency program, currently with eight residents
- Participation in undergraduate, postgraduate and continuing medical education

Faculty/Resident Awards
- Dr. Justin March received the 2021 Hy Dubo Educator of the Year Award

Research Highlights
- Dr. Pooyania is a member of the writing group for the Canadian Guidelines for Stroke Rehabilitation
- Dr. Ethans has stepped away from a formal research program, though continuing to publish and collaborate. The section thanks her for the years of dedication to quality research and the countless hours spent mentoring residents

Top Publications
- Inside the lived perspective of life after spinal cord injury: a qualitative study of the desire to live and not live, including with assisted dying. Spinal Cord. 2021 May. PMID: 33790424
- Design of an mHealth application for winter mobility for mobility device users. Disabil Rehabil Assist Technol. 2021 Mar 30. PMID: 33784928

Administrative Highlights
- Dr. Davyd Hooper was appointed medical director of the Riverview Neurodiagnostic Clinic

Faculty Members

PROGRAM ADMINISTRATOR
Lisa Wirth

TOTAL # OF 2021/2022 RESIDENTS
8
Respiratory Medicine

Overview
The Section of Respiratory Medicine offers expertise in the diagnosis and treatment of diseases of the respiratory system, such as advanced chronic obstructive pulmonary disease, interstitial lung diseases, pulmonary arterial hypertension, tuberculosis and pulmonary fibrosis. They also provide ongoing care for lung transplant patients and patients with chronic respiratory failure.

New Faculty
• Dr. Steven Grocholski joined the department (Aug. 2021)
• Dr. Terry Colborne joined the department (Oct. 2021)

Clinical Highlights
• Provide detailed assessments, treatments and education to Manitoba, northwestern Ontario and northern communities
• Outpatient clinics at HSC, GH and SBH
• Provides specialized clinics for patients with pulmonary hypertension, hereditary hemorrhagic telangiectasia, interstitial lung disease, and respiratory failure related to neuromuscular disease
• Multidisciplinary adult cystic fibrosis and nontuberculous mycobacterial lung disease clinics
• Virtual clinics for patients with persistent pulmonary symptoms post-COVID
• Evaluation of patients with various sleep disorders including sleep-disordered breathing work at the Misericordia Sleep Disorder Centre
• Consultation coverage at RHC

Educational Highlights
• Dr. Nancy Porhownik stepped down as PGME program director, after 5 years of service
• Dr. Kim Mulchey was appointed PGME program director in July 2021

Research Highlights
• Dr. Clare Ramsey
  - Principal investigator (PI) for a CIHR-funded study looking at pulmonary outcomes in patients with COVID
  - Site PI for PROMIS2: a phase 3 trial
  - Site PI for ANDHI-AIP: a phase 3B study
• Dr. Martha Ainslie is the site PI for UCAP: a national study looking at undiagnosed asthma in the community
• Dr. Eleno Giannouli is the site PI for CIHR-funded ADVENT-HF
• Dr. Steven Mink was appointed editor of Frontiers in Physiology

Top Publications
• Performance of the Ebel standard-setting method in spring 2019 Royal College of Physicians and Surgeons of Canada internal medicine certification examination consisted of multiple-choice questions. J Educ Eval Health Prof. 2020. PMID: 32306708
• The five-year pre- and post-hospitalization treated prevalence of mental disorders and psychotropic medication use in critically ill patients: a Canadian population-based study. Intensive Care Med. 2021 Sep 8. PMID: 34495357
• Hereditary Hemorrhagic Telangiectasia (HHT) and Survival: The Importance of Systematic Screening and Treatment in HHT Centers of Excellence. J Clin Med. 2020 Nov 6. PMID: 33172103

Administrative Highlights
• Dr. James Bras was appointed medical lead, Provincial Lung Cancer Screening Program
• Dr. Nancy Porhownik was appointed assistant dean, Office of Professionalism and director of Evaluations, UGME, University of Manitoba
• Dr. Martha Ainslie is the co-chair of Internal Medicine RCSPC exam
• Dr. Marcus Blouw is the associated medical director of Adult Critical Care Transport, Shared Health
• Dr. Els de Gussem is a member, Cure HHT Centre of Excellence Committee
• Drs. Martha Ainslie and Clare Ramsey were elected academic members at large, College Executive Committee
• Dr. Clare Ramsey is the chair of the Adult Respirology for CTS Asthma Assembly

2021 Faculty/Resident Awards
• Dr. Zoheir Bshouty was awarded the 2021 Nick Anthonisen Award for his academic contributions and pulmonary hypertension patient care
• Drs. James Blouw and David Christiansen were recognized by the PGME residents for being outstanding educators ("Keep It Up Button")

Rheumatology

Overview
The Section of Rheumatology provides ambulatory care services as well as clinical consultation and inpatient care to patients with all types of inflammatory musculoskeletal and autoimmune diseases.

Clinical Highlights
• Provides clinical care to complex patients and vulnerable populations
• Serves as the tertiary rheumatology referral centre for Manitoba, northwestern Ontario and Nunavut
• Operates specialized tertiary care clinics for scleroderma, lupus and vasculitis in addition to general rheumatology care clinics at HSC
• Increasing number of community outreach clinics in Norway House, Island Lakes, Red Sucker Lake, Hodgson, Thompson, and most recently, Rankin Inlet and Nunavut

Academic Highlights
• Actively engaged in undergraduate and postgraduate medical education
• Two-year post-graduate training program
• Residents must have completed three to four years of internal medicine training prior to entering the program

Research Highlights
• Home section to the Endowed Rheumatology Research Chair and Associate Head of Research
• Cutting edge research to improve the health, treatments, outcome and quality of life for our patients
• Research areas ranging from basic science and translational research to epidemiology and clinical trials:
  - Active local lupus and early synovitis cohort’s
  - Participates in national and international myositis, vasculitis, lupus and inflammatory arthritis research initiatives.
  - Clinical nutrition studies looking at dietary intake and inflammatory potential in rheumatoid arthritis patients
  - Start-up of a randomized clinical trial of curcumin in preventing rheumatoid arthritis
  - Active studies looking at the response to the COVID-19 vaccines in our immune compromised patients, with local, national and international collaborations

Top Publications
• Association of a Serum Protein Signature with Rheumatoid Arthritis Development. Arthritis Rheumatol. 2021 Jan. PMID: 32770634
• Neuropsychiatric Events in Systemic Lupus Erythematosus. Arthritis Rheumatol. 2021 May 27. PMID: 34042329

Administrative Highlights
• Dr. Christine Peschken was promoted to Professor
As Dr. Orr steps away from her role as the Associate Head of Education, we acknowledge her devotion and enormous amount of time and energy over the past twenty years in leading and overseeing the department’s education efforts. Thank you Dr. Orr for your professionalism, incredible hard work and unwavering commitment to the education mission.

Dr. Carmen Hurd, MD, MSc, FRCP, has accepted the role of Associate Head of Education, Internal Medicine, which she will assume January 2022.

OUR STUDENTS - Academics

A Message from the Associate Head of Education

The Department of Internal Medicine is responsible for the largest share of undergraduate and postgraduate medical education in the Max Rady College of Medicine at the University of Manitoba. Department members contribute as leaders in 19 undergraduate medical curriculum streams, as well as contributing to other educational streams such as the Physician Assistant Program. The department has 17 postgraduate core internal medicine and specialty programs, as well as two programs that are Areas of Focused Competence, Interventional Cardiology and Hepatology.

In July 2021, we welcomed 125 residents into our programs; 58 completed their medical degrees at the University of Manitoba and 67 at other universities. The ongoing challenge in 2021 has been to sustain and promote education while meeting the overwhelming demands of clinical care throughout the COVID-19 pandemic. Our residents and staff have done their utmost to care for those we serve, including not only Manitobans but also those in our catchment areas such as the northwestern Ontario and the Kivalliq district of Nunavut. We have pivoted to provide education, as well as clinical care, using audiovisual connections and in person activities, when possible. We continue to be aware of the need to preserve space for in-person interactions, physical examination, the development of trust and respect that comes from unobstructed and unfiltered human interaction. These are among the cornerstones of the art and science of care.

We have never been more aware of the need to be present physically, emotionally and mentally with our fellow learners and health care workers. As much as possible, we have endeavored to provide care using staff physicians rather than residents on our COVID wards since the onset of the pandemic. Our programs were focused this year on resident wellness and expanding our curriculum and processes in key areas including anti-racism, our commitments and responsibilities to truth and reconciliation with Indigenous Peoples, gender equity, caring for people with disabilities, continuous quality improvement, LGBTQ2s+ in health care and performance evaluation through competence by design.

I would like to highlight our residents and staff who were recognized by the Manitoba Medical Students Association with awards in 2021: Dr. Quinlan Richert (Clinical Teaching), Dr. Ali Taha (Patient Advocacy), Dr. Anthony Battad (Small Group Teaching), Dr. Sean Uдов and Dr. Eytan Perl (Best Course, Neuroscience), Dr. Kulvir Badesha (Patient Advocacy) and Dr. Clarence Khoo (Innovation). Dr. Andrew MacDiarmid (GIM) has been selected as the recipient of the Barry J. Kaufman CTU Educator Award and Dr. Veena Agrawal (Endocrinology) has been selected recipient of the Morley Lertzman Subspecialty Educator Award.

Each physician is a researcher—asking questions and searching for answers. Drs. Alan Garland, Navdeep Tangri, Versha Banerji and Allan Kraut, along with many others, have nourished and promoted the development of research skills amongst our residents. Our November 2021 Resident Research Day highlighted the research of our residents, with awards going to Drs. Mariam Narous, Evan Wiens, Jennifer Zeigler, Ummair Sajid and Antonia Zhu (1st prize - podium & poster), Shane Cameron (2nd prize - podium), Joey Mercier and Megan Sorokopud-Jones (3rd prize - podium).

I would like to draw attention to the professionalism and integrity of our residents, teachers and educators, including program staff led by Melissa Franzmann, during this year that has demanded so much from us, and then demanded more.
Resident Research Day — Award Recipients

PODIUM PRESENTATIONS
ORIGINAL INVESTIGATION BY CORE RESIDENTS

1st prize, Original Investigation: Mariam NAROUS, PGY2 - Internal Medicine
RISKS OF MELANOMA AND NON-MELANOMA SKIN CANCERS PRE- AND POST-IBD DIAGNOSIS
SUPERVISOR: Dr. Charles Bernstein

2nd prize, Original Investigation: Shane CAMERON, PGY3 - Internal Medicine
MEDICAL CANNABIS USE BY RHEUMATOLOGY PATIENTS ATTENDING A TERTIARY OUTPATIENT CLINIC: A STUDY OF 1000 PATIENTS IN CANADA
SUPERVISOR: Dr. Christine Peschken

3rd prize, Original Investigation: Joey MERCIER, PGY3 - Internal Medicine
LOOP DIURETIC RESISTANCE PREDICTION MODEL
SUPERVISOR: Dr. Navdeep Tangri

3rd prize, Original Investigation: Megan SOROKOPUD-JONES, PGY1 – Internal Medicine
FEASIBILITY OF A FAMILY LIASON VOLUNTEER INITIATIVE TO SUPPORT CRITICALLY ILL INTENSIVE CARE UNIT (ICU) PATIENTS AND THEIR FAMILIES DURING COVID-19 VISITOR RESTRICTIONS
SUPERVISOR: Dr. Kendiss Olafson

ORIGINAL INVESTIGATION BY SUBSPECIALTY RESIDENT

1st prize, Original Investigation: Evan WIENS, PGY5 - Cardiology
REAL-WORLD EFFICACY AND SAFETY OF DUAL ANTIPLATELET THERAPY WITH TICAGRELOR AS COMPARED TO CLOPIDOGREL
SUPERVISOR: Dr. Ashish Shah

POSTER PRESENTATIONS
ORIGINAL INVESTIGATION BY SUBSPECIALTY RESIDENT

1st prize, Original Investigation: Jennifer ZEIGLER, PGY6 - Critical Care
HIGH RESOLUTION DATA MODIFIES INTENSIVE CARE UNIT DIALYSIS OUTCOME PREDICTIONS AS COMPARED WITH LOW RESOLUTION ADMINISTRATIVE DATA SET
SUPERVISOR: Dr. Barret Rush

ORIGINAL INVESTIGATION BY CORE RESIDENT

1st prize, Original Investigation: Umair SAJID, PGY3 – Internal Medicine
THE PAST DECADE OF ACTH STIMULATION TESTING IN WINNIPEG
SUPERVISOR: Dr. Abdi Sokoro

RESEARCH PROPOSAL BY CORE RESIDENT OR SUBSPECIALTY RESIDENT

1st Prize, Research Proposal: Antonia ZHU, PGY2 — Internal Medicine
DETERMINING THE ASSOCIATION BETWEEN METABOLIC ACIDOSIS AND OSTEOPOROSIS IN MANITOBA CKD PATIENTS
SUPERVISOR: Dr. Navdeep Tangri

2021/2022 EMY OZAMOTO AWARD (QA project)

Dr. Ruochen (Tony) MAO, PGY2
Brandon Medical Residency Program - Satellite Campus

The Brandon Satellite Campus of the Max Rady College of Medicine, University of Manitoba, is continuing to make strides in the types of physician training provided in Brandon. The purpose of the Satellite Campus is to develop and train physicians locally with the intent of providing physicians for Brandon and the rural area. Research has shown that if you train medical personnel closer to where there is a need they are more likely to stay and fill that need. Since its inception in 2013, five different programs have been started in Brandon to support this effort.

Students enrolled in Winnipeg at the Max Rady College of Medicine are given the opportunity to do their third year in Brandon. This offers some advantages to students compared to the traditional program in giving them the opportunities to work with experienced physicians directly and exposing them to a lot of different types of medical experiences without a lot of competition from other students. The program hopes to attract four new students each year.

The program provides various integrated medical training experiences for internal medicine, emergency medicine, psychology and anesthesia. Currently, there are a total of 21 residents and one student participating in internal medicine clinical rotations. Ms. Tanis Everard is the UGME Program Administrator.

The clinical teaching unit, established in 2021, is currently lead by recent faculty recruits Drs. Umar Mohamed and Paul Igoh.

Find out more about the Brandon Medical Residency Program here.
OUR RESEARCH
- Exploration and Innovation

A Message from the Associate Head of Research

Despite the ongoing and seemingly endless impact of COVID-19 on every facet of our academic programs, the Department of Internal Medicine has continued to recruit and establish promising clinical, translational and basic researchers, in multiple disciplines. It should be noted that the department pays particular attention to this cadre of early career researchers (ECRs) through the work of the Research and Faculty Development Committee. This committee discusses career plans and objectives with each ECR, with emphasis on research time protection, resources, mentorship and how the competitiveness and sustainability of their research programs can be optimized. Specific input from section heads is sought, and re-review is planned in an appropriate timeframe.

While recognizing that these new recruits are the lifeblood of the department’s future, it is equally important to recognize the enormous contributions of those who have completed their academic missions. As such, I would like to specifically highlight the accomplishments of two of the department’s prominent researchers and leaders who formally retired this year, Drs. John Wilkins and Gerald Minuk.

In a visionary collaboration between clinician-scientists, basic-scientists and physicists, Dr. Wilkins established the Manitoba Centre for Proteomics and Systems Biology (MCPSB) in 2000 with a generous Canadian Foundation of Innovation grant. Over the past number of years, the MCPSB has become a hub of translational research for the department, where basic-scientists and clinician-scientists interact seamlessly to develop new insights into the pathogenesis of transplant rejection, rheumatoid arthritis, airway disease, viral infections and immunological host responses. Although a wide spectrum of cutting-edge analytical approaches and techniques are undertaken at the MCPSB, proteomic approaches, particularly mass spectrometry, remain at the core of the centre’s activities. Dr. Wilkins served as the centre’s Director for more than two decades, not only providing visionary leadership, but serving as a key mentor for multiple ECRs and trainees. I, personally, am deeply indebted to Dr. Wilkins for the enormous impact he has had on my own career.

Since the establishment of hepatology as a distinct discipline, Dr. Minuk has defined that discipline at our institution. As with the MCPSB, Dr. Minuk established the Liver Diseases Research Program that seamlessly incorporated clinician-scientists, basic-scientists and data-scientists. This team tackled difficult questions, particularly around liver diseases in First Nations, an area of ongoing research interest for the group. Dr. Minuk has served as a mentor for a generation of local hepatologists.

As we welcome a new generation of researchers, we thank the giants upon whose shoulders they stand. We wish them all the best of luck.
Researcher Profiles
Learn more about the groundbreaking research being conducted by faculty members in each section of internal medicine.

Endowed Research Chairs
Established through generous contributions from individuals, foundations, corporations and/or faculty members, look at our nine endowed research chairs, of which give our department a competitive edge to assist in developing scientific discoveries that impact medical treatment.

Professorships
Offering opportunity to advance the university’s academic goals and objectives through leadership, check out our two new Professorships.
<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Granting Agency</th>
<th>Program</th>
<th>Project Title</th>
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<td>University of Manitoba</td>
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<td>The link between dietary fibres, gut microbiome and chronic inflammatory disease</td>
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<td>Weston Family Foundation</td>
<td>Transformation of Research</td>
<td>Dietary fibre in IBD: feeding our microbes vs. fuelling inflammation</td>
<td>Awarded and ethics pending</td>
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<td>Contract</td>
<td>Improving the outcomes of peritoneal dialysis (PD) catheter insertion</td>
<td>Awarded</td>
<td>$3,500</td>
</tr>
<tr>
<td>Arsenio, Janilyn</td>
<td>University of Manitoba</td>
<td>Liam J. Murphy Young Investigator Award</td>
<td>Deciphering single-cell transcriptional signatures to understand cell fate determinants of protective immunity</td>
<td>Awarded</td>
<td>$20,000</td>
</tr>
<tr>
<td>Bernstein, Charles</td>
<td>AbbVie Corporation</td>
<td>Contract</td>
<td>COVID-19 and inflammatory bowel disease: A population-based, prospective study of disease impact, mental health and patient resilience</td>
<td>Awarded</td>
<td>$20,000</td>
</tr>
<tr>
<td>Bernstein, Charles</td>
<td>Crohn's and Colitis Canada</td>
<td>PACE Program</td>
<td>Crohn's and colitis: Canada's promoting access and care through centres of excellence PACE project</td>
<td>Awarded</td>
<td>$450,000</td>
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<tr>
<td>Bernstein, Charles</td>
<td>Hospital for Sick Children (SickKids)</td>
<td>Contract</td>
<td>The urban exposome and inflammatory bowel disease: Determining environmental factors that increase the risk of IBD and the cost of care</td>
<td>Awarded</td>
<td>$6,800</td>
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<tr>
<td>Bernstein, Charles</td>
<td>Pfizer Canada Inc.</td>
<td>Investigator Initiated Research Project</td>
<td>Comparing response to intravenous iron infusion in Crohn's disease and ulcerative colitis</td>
<td>Awarded</td>
<td>$23,380</td>
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<tr>
<td>Bernstein, Charles</td>
<td>Sandoz Canada Inc</td>
<td>Operating</td>
<td>COVID-19 and inflammatory bowel disease: A population-based, prospective study of disease impact, mental health and patient resilience</td>
<td>Awarded</td>
<td>$42,000</td>
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<tr>
<td>Bernstein, Charles</td>
<td>Sinai Health System</td>
<td>Contracts</td>
<td>Rates of end-ileostomy in patients with crohn's disease in the era of biologic therapy</td>
<td>Awarded</td>
<td>$5,000</td>
</tr>
<tr>
<td>Bohm, Clara</td>
<td>Canadian Institutes of Health Research (CIHR)</td>
<td>Project Grant</td>
<td>Trial of intradialytic cycling as kidney exercise rehabilitation for cardiac stunning in hemodialysis (TICKERS_HD)</td>
<td>Awarded</td>
<td>$439,874</td>
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<tr>
<td>Bohm, Clara</td>
<td>Lawson Health Research Institute</td>
<td>CIHR SPOR iCT MYG</td>
<td>Outcomes of a higher vs. lower hemodialysate magnesium concentration: A pragmatic cluster-randomized clinical trial in hemodialysis centres</td>
<td>Awarded</td>
<td>$153,938</td>
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<tr>
<td>Principal Investigator</td>
<td>Granting Agency</td>
<td>Program</td>
<td>Project Title</td>
<td>Status</td>
<td>Award Amount</td>
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<tr>
<td>Collister, David</td>
<td>Canadian Institutes of Health Research (CIHR)</td>
<td>Project Grant</td>
<td>Dialysis symptom control-pruritus outcome trial (DISCO-POT)</td>
<td>Awarded</td>
<td>$100,000</td>
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<tr>
<td>Collister, David</td>
<td>Kidney Foundation of Canada</td>
<td>Kidney Health Research Grant</td>
<td>Responsiveness of uremic symptoms to dialysis (RESET-DIALYSIS)</td>
<td>Awarded and ethics pending</td>
<td>$25,000</td>
</tr>
<tr>
<td>Collister, David</td>
<td>Kidney Foundation of Canada</td>
<td>Krescent: New Investigator Award</td>
<td>Responsiveness of uremic symptoms to dialysis (RESET-DIALYSIS)</td>
<td>Awarded and ethics pending</td>
<td>$105,000</td>
</tr>
<tr>
<td>Collister, David</td>
<td>Research Manitoba</td>
<td>Boehringer Ingelheim &amp; Research Manitoba Collaborative Grant</td>
<td>Virtual kidney check and follow up</td>
<td>Awarded</td>
<td>$300,000</td>
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<tr>
<td>Desautels, Angela</td>
<td>Health Sciences Centre</td>
<td>Operating Grant</td>
<td>Gabapentin/Pregabalin use and the incidence and severity of sleep apnea</td>
<td>Awarded</td>
<td>$1,265</td>
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<tr>
<td>Garland, Allan</td>
<td>McMaster University</td>
<td>CIHR - Sepsis Canada Network</td>
<td>Identifying sepsis</td>
<td>Awarded</td>
<td>$750</td>
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<tr>
<td>Garland, Allan</td>
<td>McMaster University</td>
<td>Sepsis Canada Network</td>
<td>Creation of a metadata catalog and platform for sepsis epidemiology studies</td>
<td>Awarded</td>
<td>$240,433</td>
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<tr>
<td>Ghia, Jean-Eric</td>
<td>Crohn's and Colitis Canada</td>
<td>Grants in Aid of Research</td>
<td>Function of follicular dendritic cell secreted protein in ulcerative colitis</td>
<td>Awarded and ethics pending</td>
<td>$50,000</td>
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<tr>
<td>Graham, Jeffrey</td>
<td>University of Manitoba</td>
<td>URGP</td>
<td>Immune checkpoint inhibition and pre-existing autoimmune disease: A retrospective cohort study</td>
<td>Awarded</td>
<td>$9,500</td>
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<tr>
<td>Hitchon, Carol</td>
<td>Global Rheumatology Alliance</td>
<td>GRA-ILAR</td>
<td>COVID-19 illness in Ethiopian rheumatology patients</td>
<td>Awarded</td>
<td>$2,544</td>
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<tr>
<td>Hitchon, Carol</td>
<td>McGill University Health Centre</td>
<td>SARS-CoV-2 Vaccine Safety and Effectiveness</td>
<td>Safety immunogenicity of COVID-19 vaccines in systemic Immune-mediated inflammatory diseases (SUCCEED)</td>
<td>Awarded</td>
<td>$168,947</td>
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<tr>
<td>Hitchon, Carol</td>
<td>Research Manitoba</td>
<td>Manitoba COVID-19 Rapid Response Grant</td>
<td>Safety and immunogenicity of SARS-CoV2 vaccines</td>
<td>Awarded</td>
<td>$84,105</td>
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<tr>
<td>Ho, Julie</td>
<td>Laval University</td>
<td>Contract</td>
<td>Development and validation of a cell-based assay to identify over-immunosuppression in kidney transplant recipients</td>
<td>Awarded and ethics pending</td>
<td>$12,000</td>
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<tr>
<td>Principal Investigator</td>
<td>Granting Agency</td>
<td>Program</td>
<td>Project Title</td>
<td>Status</td>
<td>Award Amount</td>
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<tr>
<td>Larcombe, Linda</td>
<td>University of Winnipeg</td>
<td>Manitoba Network Environment for Indigenous Health Research (NEIHR)</td>
<td>Kishaadigeh: Indigenous self determination through research of our future generations</td>
<td>Awarded</td>
<td>$25,000</td>
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<tr>
<td>Marrie, Ruth Ann</td>
<td>National Multiple Sclerosis Society</td>
<td>Strategic Initiative</td>
<td>Women's health in MS</td>
<td>Awarded</td>
<td>$12,661</td>
</tr>
<tr>
<td>Marrie, Ruth Ann</td>
<td>Unity Health Toronto</td>
<td>Contract</td>
<td>Canoptics: The Canadian neuromyelitis optica spectrum disorder (NMOSD) and other atypical demyelinating diseases cohort study</td>
<td>Awarded</td>
<td>$4,320</td>
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<tr>
<td>Mendelson, Asher</td>
<td>University Medical Group</td>
<td>New Investigator</td>
<td>Microvascular monitoring in critical illness: Physiology and clinical applications</td>
<td>Awarded</td>
<td>$50,000</td>
</tr>
<tr>
<td>Mendelson, Asher</td>
<td>University of Manitoba</td>
<td>Winnipeg Foundation Innovation Fund</td>
<td>Vascular injury caused by mechanical ventilation: Bench to bedside proof-of-concept</td>
<td>Awarded with active RPA</td>
<td>$100,000</td>
</tr>
<tr>
<td>Mishra, Suresh</td>
<td>Canadian Institutes of Health Research (CIHR)</td>
<td>Project Grant</td>
<td>Establishing essential research tools to advance the knowledge of interrelated sex differences in adipose and immune functions in health and disease (The SDAI Core Models) and exploring the mechanisms involved in the sex-dimorphic role of prohibitin above and beyond sex hormones</td>
<td>Awarded</td>
<td>$100,000</td>
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<tr>
<td>Ng, Marcus</td>
<td>Canadian Institutes of Health Research (CIHR)</td>
<td>Project Grant</td>
<td>The REM-spike project: A set theoretic concordance evaluation of rapid eye movement sleep in localizing the epileptogenic zone</td>
<td>Awarded</td>
<td>$548,890</td>
</tr>
<tr>
<td>Ng, Marcus</td>
<td>Health Sciences Centre Foundation</td>
<td>Bridge Funding</td>
<td>Exploring the effects of functional connectivity to depict key differences between stages of sleep to determine why REM protects against seizures</td>
<td>Awarded</td>
<td>$15,000</td>
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<tr>
<td>Nickerson, Peter</td>
<td>Winnipeg Rh Institute Foundation Inc</td>
<td>Dr. John M. Bowman Memorial Winnipeg Rh Institute Foundation</td>
<td>Expanding the pool of deceased kidney donors and kidney transplant recipients in Manitoba</td>
<td>Awarded</td>
<td>$25,000</td>
</tr>
<tr>
<td>Olafson, Kendiss</td>
<td>University Health Network (UHN)</td>
<td>University Health Network</td>
<td>The Canadian COVID-19 prospective cohort study (CANCOV)</td>
<td>Awarded</td>
<td>$5,500</td>
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<tr>
<td>O’Neil, Liam</td>
<td>Arthritis Society</td>
<td>Strategic Operating Grant</td>
<td>Dysregulated neutrophil extracellular trap formation in rheumatoid arthritis</td>
<td>Awarded</td>
<td>$298,400</td>
</tr>
<tr>
<td>O’Neil, Liam</td>
<td>Manitoba Medical Service Foundation</td>
<td>Operating</td>
<td>Searching for citrulline: A comprehensive analysis of the citrullinome across the stages of rheumatoid arthritis</td>
<td>Awarded</td>
<td>$28,500</td>
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<tr>
<td>Principal Investigator</td>
<td>Granting Agency</td>
<td>Program</td>
<td>Project Title</td>
<td>Status</td>
<td>Award Amount</td>
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<tr>
<td>O’Neil, Liam</td>
<td>University of Manitoba</td>
<td>Winnipeg Foundation Innovation Fund</td>
<td>Thermal imaging and deep learning to evaluate sub-clinical disease activity in individuals at-risk to develop rheumatoid arthritis</td>
<td>Awarded</td>
<td>$64,125</td>
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<tr>
<td>Rigatto, Claudio</td>
<td>Canadian Institutes of Health Research (CIHR)</td>
<td>Project Grant</td>
<td>A pragmatic randomized controlled trial of a CKD specific telemonitoring platform to minimize adverse outcomes in high risk CKD patients</td>
<td>Awarded</td>
<td>$562,275</td>
</tr>
<tr>
<td>Rigatto, Claudio</td>
<td>Unity Health Toronto</td>
<td>Operating Grant</td>
<td>Strategies for the management of atrial fibrillation in patients receiving dialysis (SAFE-D)</td>
<td>Awarded</td>
<td>$1,000</td>
</tr>
<tr>
<td>Shaffer, Seth</td>
<td>University Medical Group</td>
<td>Internal Medicine Start-Up Fund</td>
<td>Gastroenterology research laboratory</td>
<td>Awarded</td>
<td>$50,000</td>
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<tr>
<td>Shah, Ashish</td>
<td>University of Manitoba</td>
<td>UCRP</td>
<td>Disease defining and hemodynamics associated biomarker identification in the patients with fontan circulation (DAWN study)</td>
<td>Awarded</td>
<td>$24,486</td>
</tr>
<tr>
<td>Shen, Garry</td>
<td>Canadian Institutes of Health Research (CIHR)</td>
<td>Operating Grant: Understanding and mitigating the impacts of the COVID-19 pandemic on children, youth and families in Canada</td>
<td>To assess the impact of COVID-19 on prenatal education and pregnancy outcomes in mothers and children in remote First Nations communities in Manitoba</td>
<td>Awarded</td>
<td>$150,000</td>
</tr>
<tr>
<td>Shen, Garry</td>
<td>Canadian Institutes of Health Research (CIHR)</td>
<td>Team Grant: Diabetes Prevention and Treatment in Indigenous Communities: Resilience and Wellness - LOI</td>
<td>Moms in Motion: Diabetes prevention in pregnancy program in First Nations communities</td>
<td>Awarded and ethics pending</td>
<td>$35,000</td>
</tr>
<tr>
<td>Singh, Harminder</td>
<td>Canadian Association of Gastroenterology</td>
<td>PhD Studentship Award</td>
<td>Physical activity prescription for individuals with quiescent IBD</td>
<td>Awarded with active RPA</td>
<td>$40,000</td>
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<tr>
<td>Szwajcer, David</td>
<td>BioCan Rx Network</td>
<td>Contract</td>
<td>Point of care biomanufacturing</td>
<td>Awarded</td>
<td>$200,000</td>
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<tr>
<td>Tangri, Navdeep</td>
<td>Canadian Institutes of Health Research (CIHR)</td>
<td>Team Grant: Diabetes Mechanisms and Translational Solutions</td>
<td>Reducing dietary acid with fruit and vegetables in individuals with diabetes and chronic kidney disease (RaVe-DKD) trial</td>
<td>Awarded</td>
<td>$10,000</td>
</tr>
<tr>
<td>Tangri, Navdeep</td>
<td>National Kidney Foundation Inc.</td>
<td>The NKF Patient Network and Registry</td>
<td>National Kidney Foundation Patient Network and Registry</td>
<td>Awarded</td>
<td>$30,000</td>
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<tr>
<td>Thiessen, Maclean</td>
<td>Knight Therapeutics Inc.</td>
<td>Unrestricted research grant in cancer research</td>
<td>Discovering a framework for creating online information about curative intent cancer treatments: A cancer maps project</td>
<td>Awarded and ethics pending</td>
<td>$25,000</td>
</tr>
<tr>
<td>Principal Investigator</td>
<td>Granting Agency</td>
<td>Program</td>
<td>Project Title</td>
<td>Status</td>
<td>Award Amount</td>
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<tr>
<td>Uhanova, Julia</td>
<td>Canadian Institutes of Health Research (CIHR)</td>
<td>Project Grant</td>
<td>Traditional Indigenous land-based diet and chronic inflammation: Does adherence to the traditional First Nations diet decrease the severity of chronic inflammatory diseases?</td>
<td>Awarded and ethics pending</td>
<td>$573,751</td>
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<tr>
<td>Yamamoto, Jennifer</td>
<td>Manitoba Medical Service Foundation</td>
<td>Operating</td>
<td>Comparing the effects of long acting versus intermediate acting versus short acting insulins on severe hypoglycemia in type 2 diabetes</td>
<td>Awarded</td>
<td>$15,000</td>
</tr>
<tr>
<td>Yamamoto, Jennifer</td>
<td>Winnipeg Foundation (The)</td>
<td>Operating</td>
<td>Comparing the effects of long acting versus intermediate acting versus short acting insulins on severe hypoglycemia in type 2 diabetes</td>
<td>Awarded</td>
<td>$15,000</td>
</tr>
<tr>
<td>Zarychanski, Ryan</td>
<td>Ottawa Hospital Research Institute</td>
<td>COVID Grants</td>
<td>Venous thrombosis virtual surveillance in COVID - Virtuoso</td>
<td>Awarded</td>
<td>$1,500</td>
</tr>
<tr>
<td>Zarychanski, Ryan</td>
<td>Sunnybrook Research Institute</td>
<td>Canadian Network of COVID-19 Clinical Trials Networks</td>
<td>Canadian Network of COVID-19 Clinical Trials Networks</td>
<td>Awarded</td>
<td>$300,000</td>
</tr>
</tbody>
</table>

**Total awarded grant funding** | **$7,571,449**

*Externally held projects include hospital foundation grants or industry-funded clinical trial contracts where funds are held at affiliated hospitals/institutions (Shared Health-HSC, CCMB, etc.). Due to recent process changes, this may not be inclusive of the complete 2021 year.*
We have continued to face the ongoing challenge of the COVID-19 pandemic. The department as a whole has worked tirelessly in both response planning and operationalizing that response across our acute care hospitals. With each wave, we have seen how the physicians in this department rose to the challenge, with multiple members from various subspecialties contributing to staffing of our COVID wards, not to mention the tireless work that was being done in our intensive care units. As we watched vaccines get approved and rolled out over several months, the hope was that we could avoid more waves. As I write this, we currently suffer from a muted fourth wave with hope that we will soon see the end to the worst of the pandemic.

What has also become apparent is the amount of work we still have ahead of us. The number of patients who are presenting with more complex diseases continues to increase. As well, we are seeing the need to catch up with the backlog of patients who require testing and assessments, both virtual and in person. This will be no easy task, as we enter this recovery phase from the pandemic.

In our clinics, we are slowly getting used to this new way of doing business, with the introduction of technology into our workflow in order to support virtual visits. This change, which came about as a necessary response, has shown how a hybrid model can work well in providing care to patients. As we move forward, we will need to figure out what the right balance of virtual and in person should be in order to maximize care.

I would like to thank everyone who has contributed to the enormous effort that has been needed to deliver care over the past year. All members contributed in some way to caring for both COVID and non-COVID patients during a stressful and uncertain time. When we look back on this era, everyone in this department can feel a sense of pride that we were at the forefront of this challenge.
“THE SCHOOL”: New Ambulatory Care Clinic located at 700 Elgin Avenue

Overview

In the fall of 2017, the Department of Internal Medicine, in cooperation with HSC and the WRHA (now Shared Health), agreed to an $8.9M project where 13 of our ambulatory care clinics (currently seeing more than 75,000 patients annually) will be relocated to a new facility. Clinics will be consolidated into this brand-new space in what was once the Ellen Douglass School, located at 700 Elgin Avenue.

Working with our partners at WRHA/Shared Health Capital Planning, HSC and MMP Architects Inc., the clinic is planned with evidence-based design principles, using an “on-stage/off-stage” design model.

What is on-stage/off-stage design? It is where patient areas are separate from staff and physician areas. Each exam room has two doors with one leading out to patient hallways and the other opening into staff workspaces. This is designed to encourage collaboration between multidisciplinary clinical teams and subspecialties.

With the consolidation of 13 subspecialty clinics that are currently scattered throughout the HSC campus, combined with the advantages of the design model, the department expects more interdisciplinary care and the ability for patients to see various subspecialists during a single visit. We are expecting to move into the new ambulatory care clinic in early 2022.

Ambulatory Care Center Overarching Principles

1. Patient centered, inter-multidisciplinary care delivery
2. Focus on delivery of tertiary care and academic medicine
3. Flexibility through modularity and harmonized processes
4. Transparency, accountability and stakeholder consultation

Clinic Layout

- 72 exam rooms
  - Ten oversized exam rooms
  - Three procedure rooms (one per floor)
- 140 workstations for various types of work with ergonomic options including adjustable sit/stand desks, standing tables and hoteling options
- Shared "muster areas" for each clinical space, including privacy booths

700 Elgin Leadership Team

Reid Love
Executive Director, Ambulatory Care and Clinical Supports, Shared Health - HSC

Gus Castaneda
Director of Health Services, Ambulatory Care and Day Procedures, Shared Health - HSC

Tracy Choptain
Manager of Patient Care, Ambulatory Care Medicine, Shared Health - HSC

Dr. Eberhard Renner
Head and Provincial Specialty Lead, Internal Medicine

Dr. David Robinson
Site Medical Director, Ambulatory Care, Internal Medicine
Advisory Groups

Ambulatory Care Oversight Committee
Caroline Beaudoin, Marie Bevan, Gus Castaneda, Hana Forbes, Claudia Gabriele, Kym Morris, Loriebeth Quileza, Dr. Eberhard Renner, Dr. David Robinson, Jeff Skrumeda

Physician Advisory Group
Drs. Veena Agrawal, Colin Barber, Michael Cantor, Laura Chisick, Konstantin Jilkine, Kelly Kaita, Ruth Ann Marrie, Nancy Porhownik, Mahwash Saeed

Support Staff Advisory Group
Angel Aguinaldo, Kimberly Bare, Jody Hainstock-Beavis, Kathi Bryan, Rochelle Castillo, Cherry Lou Clemente, Rosemarie Dodd, Triaana Furlong, Golda Gardiola, Princess Herrera, Jade Michelle Marasigan, Carol Mydlo, Marina Potenza, Lorie Radtke, Indira Ragho, Jeannette Reyes, Josiewenya Sahagun, Bozana Sajdak, Karen Koch-Schulte, Michelle Shemeluk, Crystal Solano, Janna Van Walleghem

Patient Advisory Group
Richard Beaumont, Sel Burrows, Brenda Chambers-Ivey, Madeline Everett, Susan Kaplick, Lydia Smith, Kim Trudeau

700 Elgin will be the future home to...
- Allergy and Clinical Immunology
- Cardiology
- Dermatology
- Endocrinology and Metabolism
- Gastroenterology
- General Internal Medicine
- Hepatology
- Hypertension (GH)
- Infectious Diseases
- Neurology
- Respiratory Medicine
- Rheumatology
- Vascular (GH)
Strategic Plan

As we continue to collaborate with internal stakeholders (committees, faculty and staff) to finalize our 2022-2025 strategic plan, we focus our priorities to align, strengthen and expand our clinical excellence, academic experience, research capacity and foundational support (administration).

The Department of Internal Medicine Strategic Plan document will be available on our website once finalized in early 2022.