The Department of Medicine is an academic and clinical department within the College of Medicine at the University of Saskatchewan and the Saskatchewan Health Authority. Most of the 240 plus members of the department are located in Saskatoon or Regina, with additional members in Prince Albert, Moose Jaw, Swift Current, North Battleford and Yorkton.

VISION

Inspiring hope for Saskatchewan patients

MISSION

Advancing patient care by providing innovative education, research and clinical services

To our patients: We offer the best possible medical care.

To our students and residents: As role models for future clinicians and scientists, we offer quality programming and a supportive learning environment.

To our department members: We support, develop and engage all members to foster a mutually beneficial relationship and a common sense of purpose.

To Saskatchewan: We collaborate, engage and innovate to address medical needs.
TABLE of CONTENTS

2 Department of Medicine at a Glance
3 Message from Provincial Head
4 Section I – About the Department of Medicine
   • Department Structure
   • Welcome, Farewell and Congratulations
   • Covid Preparedness, Planning and Impact
9 Section II – Education
   • UGME Report
   • Core IM Report
   • Medicine Grand Rounds
   • Covid BootCamp
16 Section III – Research
   • Research Report
   • Research Supports
20 Section IV – Quality of Care
   • Quality of Care Report
22 Section V – Celebrating Success
   • Provincial Head Awards
   • External Honours
   • Faculty Teaching Awards
   • Residents Awards
29 Section VI – Division Reports
   • Saskatoon
   • Regina
   • SHA Areas
66 Section VII – Research Funding
76 Section VIII – Department Publications
DEPARTMENT of MEDICINE at a GLANCE
(as of June 30, 2020)

240 internists

with 12 subspecialties

in 7 cities

received $6,457,276 in new research funding

*2019/2020 fiscal year - based on OVDR Research Productivity report*

producing > 220 peer reviewed publications

supervised 35 graduate students (MSc and PhDs)

and 103 residents
I am pleased to present the 2019 – 2020 Annual Report for the Department of Medicine at the University of Saskatchewan and the Saskatchewan Health Authority. While the report covers the academic year from July 1, 2019 to June 30, 2020, it is being assembled in the fall of 2020 while the COVID pandemic still rages around us.

Yet there was more to the year than COVID. Our research productivity continued its upward trend as measured in increased number of grants, publications and citation counts. Our postgraduate students enjoyed their first full year of the new CBD curriculum and our faculty continue to learn new ways to provide the education and ongoing feedback students are looking for. To further support faculty engagement, the Department of Medicine formed an Equity, Diversity and Inclusion Committee in the Spring of 2020 with an official launch in July. I look forward to the committee’s recommendations in the year ahead.

And then of course there was COVID. The pandemic forced a sudden and unexpected shift in focus for everyone. While some faculty faced reduced access to patients, putting in-person clinics and research on hold, several were able to pivot and contribute to the growing body of knowledge about the novel coronavirus. Several COVID-19 related publications are included in this year’s publication list.

I want to acknowledge the contributions and extraordinary efforts of the Department of Medicine team from throughout the province. From administrative assistants juggling student schedules, to the leadership provided by faculty from Infectious Diseases /Microbiology and other divisions, to in-hospital COVID teams developing and implementing new protocols, to presenters for the COVID-19 Bootcamps ensuring your colleagues are informed and educated, and to all faculty for your flexibility and resilience; your efforts are noted and appreciated.

Thank you to everyone who contributed to the success of the department this year. We will continue to learn from each other and support each other in the months ahead as we look forward to a return to a new normal.

**DR. HAISSAM HADDAD**
Provincial Head
Dept of Medicine University of Saskatchewan and Saskatchewan Health Authority
ABOUT
THE DEPARTMENT
OF MEDICINE
SECTION I
DEPARTMENT STRUCTURE

(as of June 30, 2020)

PROVINCIAL DEPARTMENT HEAD
Dr. Haissam Haddad

KEY LEADERS
Deputy Head – Dr. Anne PausJenssen
Director Research – Dr. Josh Lawson
Director Quality of Care – Dr. Rabia Shahid
Director UGME – Dr. Rahul Mainra

PGME PROGRAM DIRECTORS
Core IM – Dr. Karen Laframboise
Cardiology – Dr. Kelley Coverett
GIM – Dr. Jessie Baptiste
Nephrology – Dr. Jim Barton
Neurology – Dr. Gary Hunter
Respirology – Dr. Mark Fenton
Rheumatology – Dr. Keltie Anderson

SAKATOON (Acting)
Dr. Haissam Haddad

Saskatoon
Dr. Haissam Haddad

North East
Dr. Adel Ben-Saleh

North West
Dr. Abdul Lookman

South East
Dr. Saliu Oloko

South West
Dr. Fauzi Ramadan

REGINA
Dr. Bonnie Richardson

AREA LEADS

ADMINISTRATION
Assistant to Provincial Head – Lesley Reynolds
Finance & Admin Manager – Helen Chapple
Finance & Admin Coordinator – Lindsay Doig

COMMUNICATIONS
Director Communications – Dr. Rob Skomro
Communications Officer – Susan Burton

EDUCATION PROGRAM SUPPORT
UGME – Tenille Shivak and Angela Kuffner
Core IM – Jenny Gates-Debogorski, Melissa Pardy, Yimika Plumptre, Andrea Holtkamp
Neurology – Angela Loehndorf
Sub-specialities – Sherrise Mareschal, Angela Kuffner

RESEARCH SUPPORT
Research Facilitator – Dr. Ozlem Sari (PhD)

RESERACH SUPPORT

CCHSA – Dr. Niels Koehncke
Cardiology – Dr. Erik PausJenssen
Dermatology – Dr. Duane Lichtenwald
Endocrinology & Metabolism – Dr. Nassrein Hussein
Gastroenterology – Dr. Anil Bedi
General Internal Medicine – Dr. Kempe Gowda
Geriatric Medicine – Dr. Jenny Basran
Infectious Diseases – Dr. Stephen Sanche
Nephrology – Dr. Rod Stryker
Neurology – Dr. Alex Rajput
Respirology, Critical Care & Sleep Medicine – Dr. Rob Skomro
Rheumatology – Dr. Regina Taylor-Gjevre

SECTION HEADS - Regina
Cardiology – Dr. Rod Zimmerman
Critical Care – Dr. Hendrick Van Der Merwe
Dermatology – Dr. Karen Holfeld
Endocrinology – Dr. Jeremy FitzGerald
Gastroenterology – Dr. George Chami
General Internal Medicine – Dr. Jarol Boan
Infectious Diseases – Dr. Stuart Skinner
Nephrology – Dr. Siva Karunakaran
Neurology (Acting) – Dr. Melad Shawush
Physical Medicine & Rehabilitation – Dr. Jacqueline Kraushaar
Respirology – Dr. Zenon Belak
Rheumatology – Dr. Ardyth Milne

ARZI
Dr. Ronnie Richardson
WELCOME, FAREWELL and CONGRATULATIONS

The Department of Medicine welcomed 18 new faculty and said farewell, and in some cases happy retirement, to seven colleagues during the 2019 / 2020 academic year.

RECRUITMENT

Saskatoon

Dr. Janine Eckstein – Cardiology
Dr. Kirsten Walker – Dermatology
Dr. Mina Niazi – Gastroenterology & Hepatology
Dr. Nabeel Samad – Gastroenterology & Hepatology

Dr. Jonathan Dean – General Internal Medicine
Dr. Andrew Yang – General Internal Medicine
Dr. Geoffrey Shumilak – Infectious Diseases / ICU
Dr. Omar DeRita – Neurology/General Internal Medicine

Dr. Mina Niazi – Gastroenterology & Hepatology
Dr. Andrew Yang – General Internal Medicine
Dr. Mina Niazi – Gastroenterology & Hepatology
Dr. Omar DeRita – Neurology/General Internal Medicine

Regina

Dr. Babatunde Adewunmi – General Internal Medicine
Dr. Anmol Cheema – General Internal Medicine
Dr. Olumide Ogundare – General Internal Medicine / Nephrology
Dr. Kathryn Whittemore – General Internal Medicine / Intensive Care
Dr. Rosemary Serwadda – General Internal Medicine

Dr. Wenwan Zhou – Cardiology
Dr. Yang Zhan – Cardiology
Dr. Syed Amin – Nephrology
Dr. Kevin Hamming – Endocrinology

Dr. Rosemary Serwadda – General Internal Medicine
(moved from Swift Current)

Dr. Mohammad Aslam – General Internal Medicine

Moose Jaw

Dr. Muhammad Aslam – General Internal Medicine

DEPARTURES

Saskatoon

Dr. Nicole Hawkins – Dermatology
Dr. Catherine Trask – CCHSA

Regina

Dr. Ramazan Abdullah – Respirology
Dr. Alyssa Shariff – General Internal Medicine

Dr. Suba Mann – General Internal Medicine / Endocrinology
Dr. Milo Fink – PM&R

Prince Albert

Dr. Ali Syed – General Internal Medicine

PROMOTIONS

Congratulations for their promotions to Associate Professor:

Dr. Bonnie Richardson (Regina Area Lead / Nephrology)
Dr. Erika Penz (Respirology, Critical Care and Sleep Medicine – Saskatoon)
COVID-19 PREPAREDNESS, PLANNING and IMPACT

The Covid-19 pandemic led to significant changes in clinical delivery, teaching, research and administrative loads. It was very encouraging to see the Department of Medicine members pull together during this very difficult time. The department was more united than ever and is well positioned to face additional challenges posed by the pandemic.

LEADERSHIP ROLE
The Department of Medicine quickly assumed a leadership role within the Saskatchewan Health Authority (SHA) in preparedness and planning for the Covid-19 pandemic. Department members led and participated in various SHA committees including the following examples:

- COVID testing group
- COVID screening working group
- PPE group
- Respiratory guidelines group re safe use of CPAP and BiPAP group
- SFCC COVID advice line
- Development of training and educational material re management of COVID
- Field Hospital Committee
- Upskilling Committees and Redeployment and Ethics Committee re: pandemic contracts
- Pandemic Area Chief of Staff for Regina
- Pandemic Site leads – RUH and SPH
- Pandemic Physician Co-Lead for Virtual Care SHA for Regina
- Pandemic Physician Site Lead for Wascana Rehabilitation Centre

PATIENT CARE
Department members quickly reorganized clinical activities. In Saskatoon they initially formed four COVID teams; two at Royal University Hospital and two at St. Paul’s Hospital. On very short notice, Department of Medicine members volunteered to provide additional inpatient coverage on these teams as well as expanded ICU teams and back up call schedules. Department members also worked with the System Flow Coordination Centre (SFCC) to support “care in place” to reduce transfers to larger centres and to provide support to physicians outside major centres.

Working with the SHA Digital Health Program, all members adapted to the new reality and adopted virtual care models. The Department of Medicine was one of the few units which never saw a decline in clinical volume. On the contrary, our clinical commitments during the pandemic
rose dramatically. Several department members were involved in quickly creating new virtual multidisciplinary clinics; for example, the Neurology team worked with members of the Respirology Division to create an ALS/motor neuron disease clinic.

**Research**
The Department of Medicine set up a rapid response research call and was able to fund three research teams whose projects focused on COVID related issues. The College of Medicine partnered with the Respiratory Research Centre to fund three additional COVID related research projects. In addition to these competitions, several other Department of Medicine researchers are actively conducting research in COVID related fields either as principal investigators or as members of national teams. The range of investigations spans sub-speciality and geographic areas including Cardiology, Infectious Diseases, General Internal Medicine, Rheumatology, Neurology, Respirology and CCHSA, with work being carried out in Saskatoon, Regina, Prince Albert and Moose Jaw.

Most other research programs were put on hold for several months and resumed in accordance with University of Saskatchewan Resumption of Research Planning. Dr. Darcy Marciniuk has had a leadership role in this regard within the Vice President of Research Office.

**Teaching**
Department of Medicine academic duties also had to be changed on short notice. This required a transition to virtual platforms whenever possible. In her role as UGME Assistant Dean Curriculum, Dr. Regina Taylor-Gjevre has been overseeing the re-organization of the UGME program curriculum and curriculum delivery during the initial and subsequent stages of the pandemic in Saskatchewan.

Department members are also actively involved in educating the public about COVID-19 through both local media and social media, or as featured guest speakers / resource persons for multidisciplinary projects such *NeuroSask: Active and Connected* which remotely engaged people with multiple sclerosis, spinal cord injury and Parkinson’s disease.

**CME Education**
Sixteen Department of Medicine members contributed to the Department of Medicine COVID-19 Bootcamp series, organised by Dr. Jim Barton, which ran from mid April to the end of June. The well-attended weekly online learning sessions were designed to share knowledge and provide a forum for questions about the rapidly changing information available about COVID-19.

Department members also presented in a CME COVID education initiative open to the entire College of Medicine. Participating members were from divisions of Infectious Diseases, Respirology, Critical Care and Sleep Medicine, Cardiology, Geriatric Medicine, General Internal Medicine. The Department Head participated in a session about leadership.
EDUCATION

SECTION II
UNDERGRADUATE MEDICAL EDUCATION

Undergraduate Medical Education has been busy this last year. 2019 ended fairly quietly before the drama of 2020 ensued. The pandemic led to the temporary closure of the undergraduate curriculum. This of course led to significant stress amongst our learners however they found admirable ways to see the silver linings. When the curriculum resumed, all pre-clerkship teaching was done virtually and there were significant changes to the clerkship rotations.

Our faculty showed their resilience by being nimble and finding innovative ways to teach. Clinics were shifted to take place virtually and students and faculty alike found new ways to perform clinical duties and teach this new way of delivery care.

As the new academic year began, faculty once again showed their expertise in new ways of delivering medical education. The year 4 students were challenged by having to do all their electives in Saskatchewan as all programs closed their academic borders to visiting clerks. It has been stressful to find placement for all these students, but our Department has worked hard to fulfill this commitment as best they could. Rural Internal Medicine sites now became engaged in providing educational experiences for clerks.

Entrustable Professional Activities (EPAs) became mandatory for the new Year 3 clerks and this will definitely improve the feedback and learning for our learners. The next step is to develop a competency committee to mentor these students along their training. Department of Medicine faculty continue to excel in teaching at all levels. However, work is still needed to continue to engage faculty and maintain our excellent teaching record.
The Internal Medicine program launched the new Royal College of Physicians and Surgeons Competence by Design (CBD) training curriculum in July 2019. Residents and faculty were engaged in the process to ensure a successful launch. Multiple resident and faculty development sessions were held throughout the academic year to ensure everyone involved engaged in the transition to this “new way” of training Internal Medicine residents. The launch was successful, and we are now into our second year in the new curriculum with residents in the Core of Discipline Stage and the newly starting Internal Medicine residents in the Transition to Discipline/Foundations stages.

The program is building on the faculty development opportunities this new curriculum offers. There have been Grand Rounds held related to understanding EPAs at various stages of training, *How to Provide Useful Feedback*, and training sessions for the residents and Faculty Academic Advisors on *Coaching in Medicine*.

The residents have been very helpful in providing input for improvements within the CBD curriculum and are actively involved in the curriculum development and implementation. Ongoing faculty development will continue to be one of the priorities for the coming year.

The COVID-19 pandemic affected all aspects of resident education. When it started in March, the residents stepped up to ensure safe and appropriate call coverage was maintained by developing a “back up” call schedule and they were front line care providers for patients presenting to the Emergency Department with COVID-19 symptoms. Weekly Academic Half Days (AHD) were quickly switched from in person sessions to Virtual Academic Half Days, ensuring the academic mission of the Internal Medicine Training Program was continued. The virtual Academic Half Day sessions have continued throughout the summer.
months and will continue indefinitely until the pandemic resolves. The faculty presenters at AHD have adjusted their presentations to meet the needs of the resident learners and the reviews of the presentations have been very positive.

Welcoming the new Internal Medicine residents starting in July 2020 will be a new “Virtual” experience.
GRAND ROUNDS

DEPARTMENT OF MEDICINE PRESENTERS

Dr. Stephen Sanche - Infectious Diseases
    Syphilis: What You Need to Know

Dr. John Gordon - Respirology, Critical Care & Sleep Medicine
    Regulatory Cell Therapy for Immunological Disease

Dr. Jason Orvold – Cardiology
    Cryptogenic Stroke: Closing the Gap

Dr. Alex Rajput – Neurology
    Parkinsons Disease - Overview of the 2019 Canadian Guideline

Dr. Gudrun Caspar-Bell - Endocrinology & Metabolism
and guest Dr. Roland Auer - Dept. of Pathology & Lab Medicine
    Beauty and the Beast - The Pituitary Gland

Dr. George Katselis - Canadian Centre for Health and Safety in Agriculture (CCHSA)
    Use of Proteonomics in Biomarker Discovery for Chronic Diseases

Dr. Karen Laframboise - Program Director, Medicine Residency Program
Dr. Anne PausJenssen - CBD Lead, Internal Medicine Residency Program
    CBD Update for IM Program at U of S

Quality Care Committee - Department of Medicine
    What We Have Learned So Far from Quality Improvement Rounds

Dr. Josh Lawson - CCHSA and Respiratory Research Group
    Mental Health and Asthma Among Children

Dr. Bhanu Prasad - Nephrology (Regina)
    Do All Patients Benefit from Multidisciplinary Clinics?

Dr. Donald W Cockcroft - Respirology, Critical Care and Sleep Medicine
    Asthma Guidelines 1989 to GINA 2019 - β2 or not β2: That is the Question.

Dr. Regina Taylor-Gjevre – Rheumatology
    Mortality in Rheumatoid Arthritis

Dr. Dalisizwe Dewa - Cardiology
    The Different Faces of Aortic Stenosis

Dr. Alice Wong - Infectious Diseases
    2019 Novel Coronavirus

Dr. Donna Goodridge - Respirology, Critical Care and Sleep Medicine
Dr. Chung Chun (Anderson) Tyan - Respirology, Critical Care and Sleep Medicine
Dr. Erika Penz - Respirology, Critical Care and Sleep Medicine
    2020 Highlights from the Respiratory Research Centre
GRAND ROUNDS

VISITING PRESENTERS

Dr. Gil Kaplan - Professor, Gastroenterology, University of Calgary
  *The Epidemiological Stages in the Global Evolution of Inflammatory Bowel Disease*

Dr. Aidan Hollis - Professor, Economics, University of Calgary
  *Does Canada Need to Say "No" to Expensive Drugs? The Battle Between Universality and Comprehensiveness.*

Dr. Maria Fleseriu - Professor, Medicine/Endocrinology, Diabetes & Metabolism and Neurological Surgery, Oregon Health & Science University
  *State of the Art in Diagnosis and Treatment of Acromegaly.*
COVID BOOTCAMP

Department members and guest speakers contributed to the Department of Medicine COVID-19 Bootcamp series, organised by Dr. J. Barton and the Office of Continuing Medical Education. The series ran from mid April to the end of June 2020.
The well-attended weekly online learning sessions were designed to share knowledge and provide a forum for questions about the rapidly changing information available about COVID-19.

Dr. Steve Sanche - Infectious Diseases and Dr. Beverly Wudel - Infectious Diseases
Donning, Doffing, N95 Masks

Dr. Kathy Malejczyk - Pathology and Laboratory Medicine (Regina) and Dr. Alexander Wong - Infectious Diseases (Regina)
PPE and Infectious Diseases

Dr. Kelsey Tallon - Respirology (Regina) and Dr. Erika Penz - Respirology, Critical Care and Sleep Medicine
A Pulmonary Primer

Dr. Anne PausJenssen- GIM, Dr. Michael Prystajecky - GIM and Dr. Geoff Shumilak - Infectious Diseases
Answers for your questions related to COVID-19.

Dr. Shaqil Peermohamed - Infectious Diseases and Dr. Sidd Kogilwaimath - Infectious Diseases
COVID19, Antibiotics & Vulnerable Populations

Dr. Andrea Lavoie - Cardiology (Regina), Dr. Payam Dehghani - Cardiology (Regina) and Dr. J. Akhtar - Cardiology
Cardiovascular Considerations in COVID-19 Patient, Part 1: Acute Disease

Dr. Lillian Thorpe - Community Health and Epidemiology
Capacity assessment in the context of end-of-life choices including ethical, legal and clinical perspectives

Dr. Alex Zhai - Cardiology, Dr. Stephan Wardell - Cardiology and Dr. Jason Orvold - Cardiology
Cardiovascular Considerations Part 2: Navigating the chronic cardiovascular disease patient during the pandemic

Dr. Eileen Bridges and Dr. Shirley Lee from the Canadian Medical Protective Association
Covid19 Medical Legal Issues

Dr. Brett Graham - Neurology, Dr. Otto Moodley - Hematology, and Dr. Ilia Poliakov - Neurology
Neurological & Hematological complications of COVID-19

Dr. Anita Chakravarti - Wellness Lead at USask Continuing Medical Education
COVID-19: Physician Wellness & Resilience
RESEARCH

SECTION III
Despite challenges caused by the emergence of Covid, Department of Medicine researchers continue to be productive and move into new areas in response to opportunities that have arisen.

Based on reporting from the College of Medicine’s Office of the Vice Dean of Research, our department still ranks among the highest in the college in all of the research metrics observed. This is a testament to the important work being completed by our researchers.

**FUNDING SUCCESS**

National funding successes include Dr. Donna Goodridge, a co-PI on a CIHR catalyst grant and Dr. Stuart Skinner, a co-PI on two CIHR operating grants through the Network Environments for Indigenous Health Research Program.

The latest research grant funding competition within the department results in funding for eight research teams from six divisions and included both Saskatoon and Regina based researchers.

**STRENGTHENING RESEARCH CAPACITY**

Our department and research committee continue to develop ways to strengthen research capacity by helping researchers move into research or advance their research programs. 2019/20 saw the launch of our Research Lunch and Learn Series. See Research Events for a list of the topics covered.

**COVID-RELATED OPPORTUNITIES**

While COVID caused some research programs to pause, it has also led to researchers adjusting their programs to help address this challenge. The Department of Medicine set up a rapid response research call and was able to fund three research teams whose projects focused on COVID related...
issues. These were led by Drs. George Katselis, Jay Shavadia, and Rob Skomro.

The College of Medicine also partnered with the Respiratory Research Centre to fund additional COVID studies.

Drs. Donna Goodridge, George Katselis, and Shelley Kirychuk were successful in this competition. In addition to these competitions, a number of other Department of Medicine researchers are actively conducting research in COVID related fields either as principal investigators or as members of national teams.

It was a very active year for research despite the presence of COVID and we would like to congratulate you all for your successes. As always, we encourage you to contact the research committee and staff about your projects and ways in which we can assist you. Our departmental Research Facilitator, Dr. Ozlem Sari, can be reached at ozlem.sari@usask.ca. We also hope that by working together, we will be able to continue to build on our momentum in research.
RESEARCH SUPPORTS 2019-2020

RESEARCH LUNCH AND LEARNS

Research Lunch and Learns are needs-driven topical meetings for members of the Department of Medicine. Our goals are to increase understanding of each other’s research, build a strong research community and foster learning and growth.

Meetings are held once a month during the academic term. The following topics were covered during the 2019/2020 academic year:

- Department of Medicine Research Supports
- Open Access Publishing
- Saskatchewan Health Research Foundation (SHRF) Sprout Workshop
- Behavioural and Biomedical Ethics
- Sex and Gender in Health Research
- Patient-Oriented Research and Knowledge Translation
- Social Sciences Research Laboratories

RESEARCH MENTORSHIP PROGRAM

The Research Mentorship Program is designed to provide one on one support and advice for new researchers. The program kicked off with the identification of mentors and mentees. Initial meetings were held but full implementation was delayed due to COVID. Given our current capacity, we are able to offer this program to two or three new researchers each year. If you are within five years of your first faculty appointment, you can contact our Research Facilitator to express interest or learn more about the program.

ANNUAL RESIDENT RESEARCH DAY

The Annual Resident Research Day was delayed due to the COVID-closures, and then rescheduled as online events. The PGY1 Case Presentations were held in June, and the PGY2 Poster Presentations took place in October. See the Celebrating Success pages of this report for a list of the winners.
QUALITY of CARE

SECTION IV
Other than adapting to the unique requirements in response to COVID-19, there were two major areas of focus for the Quality of Care Committee.

**EARLY WARNING SYSTEM**
Internal medicine residents are currently collaborating in a pilot project to implement an Early Warning System communication tool in the Clinical Teaching Unit.

Patients can show signs of clinical deterioration hours before the actual event. The Early Warning System communication tool is used by hospital care teams to recognize early clinical deterioration and has been successfully implemented in various institutions worldwide. The aim of this project is to reduce unexpected deaths and cardiac arrest.

**ASSESSMENT PROGRAM**
It is broadly agreed that education in quality improvement (QI) and patient safety is needed in every aspect of health care education. It is also essential to learn and discuss patients' safety and QI concepts within our organization and how they are integrated into the daily work of health care ideas to provide safe care. However, there is a paucity of continuing education on patient safety and QI.

The Department of Medicine Quality of Care Committee is introducing a formalized assessment program to enhance the knowledge of patient safety, provide analysis of a critical incident, and determine how system thinking can improve health care and minimize patient adverse events. The self-assessment program will be delivered along with Quality Improvement Rounds for the Department of Medicine members to learn and enhance those skills.
CELEBRATING SUCCESS

SECTION V
PROVINCIAL HEAD AWARDS 2019-2020

SASKATOON

Dr. Erika Penz
Clinician of the Year

Dr. Michael Prystajecky
Teacher of the Year

Dr. Anne PausJenssen
Administrator of the Year

Dr. Jay Shavadia
Researcher of the Year

REGINA

Dr. Andrea Lavoie
Clinician of the Year

Dr. Liz Gibbings
Teacher of the Year

Dr. Dorothy Thomas
Administrator of the Year

Dr. Alex Wong
Researcher of the Year
EXTERNAL HONOURS

Along with their duties within the province, many of our faculty are involved in national and internal organizations. Some examples of their achievements are provided below.

**Dr. Haissam Haddad** (*Provincial Head*) received the Canadian Certified Physician Executive (CCPE) credential from the Canadian Society of Physician leaders. The CCPE credential is a nationally recognized, standards-based peer assessment for physicians in leadership.

**Dr. Donald W Cockcroft** (*Respirology, Critical Care and Sleep Medicine*) received the Outstanding Review Award for the Annals of Allergy, Asthma and Immunology: American College of Allergy Asthma and Immunology.

**Dr. Milo Fink** (*Physical Medicine and Rehabilitation – Regina*) received an honorary lifetime membership to the CMA for medical leadership.

**Dr. John Gordon** (*Respirology, Critical Care and Sleep Medicine*) was inducted as a Fellow into the Canadian Academy of Health Sciences in recognition of his 30 plus years of research on immunotherapeutics in allergic and other inflammatory diseases.

**Dr. Brian L Graham** (*Respirology, Critical Care and Sleep Medicine*) was awarded the Dr. Robert Crapo Memorial Lifetime Achievement Award in Pulmonary Diagnostics for 2020.

**Dr. Michael Levin** (*Chair in MS Clinical Research - Neurology*) was selected to serve on the MS Society of Canada’s Medical Advisory Committee and has a lead role in the national Canadian MS Treatment Optimization Committee.

**Dr. Stuart Skinner** (*Infectious Diseases – Regina*), was featured in the global grand prize-winning Coalition for Global Hepatitis Elimination video contest for his work with the Hepatitis C program in Ahtahkakoop Cree Nation. The video was shown at the 8th International Conference on Hepatitis Care in Substance Users (INHSU) where Dr. Skinner’s work was one of three international models of Hepatitis C care to be showcased at a plenary session. Dr. Skinner also received *Ward of the 21st Century (W21C)* health innovation competition award for most promising idea for health care innovation from the University of Calgary for the Wellness Wheel program for Indigenous Health.

**Dr. Chung-Chun (Anderson) Tyan** (*Respirology, Critical Care and Sleep Medicine*) and his co-authors, received the Chris Bolliger Award from Respiration, the International Journal of Thoracic Medicine. The prize is awarded to researchers who have published an original article which received the most citations in the previous year.
FACULTY
TEACHING
AWARDS  2019-2020

VOTED ON BY RESIDENTS

Bedside Teacher of the Year Award

Dr. Jay Shavadia

Distinguished Lecturer Award
and
Teacher of the Year Award

Dr. Joshua Lawson

Regina Teacher of the Year

Dr. Alex Wong
RESIDENT AWARDS 2019-2020

VOTED ON BY FACULTY

Dr. David Cotton Award (PGY1 or 2)

The Junior Resident who best displays the quality of professionalism, accountability, commitment to excellence, duty, integrity and respect for patients and colleagues.

Dr. Ian Holmes Award (Senior PGY3 Resident)

The Senior Resident who best displays the qualities of professionalism, accountability, commitment to excellence, duty, integrity and respect for patients and colleagues.

Regina Resident of the Year

Awarded to the Regina Resident who best displays the qualities of professionalism, accountability, commitment to excellence, duty, integrity and respect for patients and colleagues.
RESIDENT AWARDS 2019-2020

T.W. Wilson Spirit Award
Awarded by the Internal Medicine Residents to the resident whose outstanding contribution to the program helped to build a rewarding and positive environment, motivating and inspiring his or her colleagues.

Kloppenburg Award
Awarded to the PGY3 resident who has shown consistent excellence in research throughout their core years.

Alex Trebek Award (tied)
Awarded to the Senior Resident who best demonstrated excellence in bedside teaching, informal teaching, morning report teaching, or any other teaching activities as voted on by the PGY1 residents.
RESIDENT RESEARCH DAY

Due to pandemic-related restrictions, Resident Research Day was held as two online events. Congratulations to the winners.

The PGY1 Case Presentations were held in June.

TIm He – 1st

Sam Harder – 2nd

Nikki Hodgins – 3rd

The PGY2 Poster Presentations were held in October.

Karen Ho – 1st

Zachary Singer – 2nd

Vanessa Wheeler – 3rd
SASKATOON DIVISION REPORTS
The Canadian Centre for Health and Safety in Agriculture is a Type B University of Saskatchewan Research and Outreach Centre, with many of our faculty belonging to the Department of Medicine. Contributions from faculty whose primary academic appointment are outside the Department of Medicine are not included in this report. The Centre’s **MISSION** is to conduct and stimulate research, education, and health promotion programs aimed at enhancing the health and well-being of agricultural, rural and remote populations.

CCHSA remains quite busy despite the **COVID** lockdown, with outreach and research activity carrying on, albeit in different ways. CCHSA Department of Medicine faculty have had significant roles related to the COVID pandemic including work related to the SARS CoV-2 vaccine hunt, connecting the Saskatchewan Health Authority with IRSST in Quebec for mask development research and testing with engineering, research with engineering addressing impact of ventilation on virus transfer, and senior leadership in both SHA PPE policy development and helping manage resumption of research activities in health sciences.

**THE AGRICULTURAL HEALTH AND SAFETY NETWORK** is the outreach arm of the Centre. The Ministry of Agriculture has provided the Centre $300,000 over 3 years towards outreach activities starting in 2020. The Network has built a library of COVID resources for agriculture and has been a very active partner in national efforts to coordinate resource development and communication strategies for agricultural producers across Canada. The spring edition of the Network News, delivered to approximately 22000 rural and farm families, included a new Electrical Safety

---

**Faculty and Rank**

(only those with primary appointment at Department of Medicine)

- **Distinguished Research Chair**
  - Dr. James Dosman

- **Emeritus Professor**
  - Dr. Roland Dyck

- **Professor**
  - Dr. Joshua Lawson (PhD)
  - Dr. Debra Morgan (PhD)

- **Associate Professor**
  - Dr. Shelley Kirychuk
  - Dr. Niels Koehncke

- **Assistant Professor**
  - Dr. George Katselis (PhD)

- **Professional Research Associate**
  - Dr. Chandima Karunanayake (PhD)

- **Graduate Students**
  - 6 PhD
  - 6 MSc
Resource created in partnership with SaskPower and funded through the Provincial CAP program ($50,000 matched).

CCHSA also provides the knowledge translation for seven different applied research programs for the next four years under the Agrivita Canada Agrisafety Applied Science Program ($470,000 matched).

**THE RURAL DEMENTIA ACTION RESEARCH (RaDAR) team**, housed at CCHSA and under the leadership of Dr. Morgan, outlined their 20-year research program in a new book titled *Remote and Rural Dementia Care: Policy, Research, and Practice*, released May 2020. Edited by Anthea Innes (UK), Debra Morgan (SK), and Jane Farmer (Australia), it is the first edited collection focusing on dementia in remote and rural areas and is available from Policy Press, University of Bristol.

**DR. CATHERINE TRASK** has left CCHSA and the University to start work in Sweden after nearly a decade of remarkable work here leading the CCHSA Ergonomics Lab. Thank you to Dr. Trask for her leadership and remarkable efforts in establishing and growing CCHSA’s ergonomics laboratory over this time, and we wish her the very best in her new position at the KTH Royal Institute of Technology.

CCHSA continued to provide clinical screening and surveillance to employers and producers through its **CANWORKSAFE PROGRAM**. This includes hearing testing, lung function testing as well as respirator fit testing and medical fitness-to-wear respirator assessments, delivered by a nurse and under the supervision of an occupational medicine specialist.
THE COVID PANDEMIC required everyone to adapt to a very fluid situation. The division of cardiology was instrumental in several aspects of the delivery of care in the Covid era as it pertained to cardiovascular issues. Cardiology members demonstrated leadership and worked collaboratively in creating the Protected Code Blue Pathway for Covid or suspected Covid patients within SHA. This would help ensure safety to all members of the health care team but also ensure that patients would still receive optimal care. In collaboration with SHA, we facilitated the temporary relocation of CCU to the 6th floor in order to optimize ICU capacity in the anticipation of Covid.

SPH CARDIOLOGY SERVICE
Starting in July 2019, there was the implementation of a new and separate cardiology consult service (7 days/week) at St. Paul’s Hospital (SPH). This was the first time there has been an official consult cardiology service at this site. This service has been utilized by physicians from GIM, ED, ICU and continues to evolve over time to enhance cardiovascular care in this patient population.

THE USASK CARDIOVASCULAR RESEARCH GROUP (CRG) was recently formed within the Department of Medicine and is committed to creating a research environment that will aim to improve cardiac care delivery to the province. It is chaired by Dr. Haddad and co-chaired by Dr. Shavadia. Several research projects are currently underway, and details are available on the Department of Medicine website.
DEPARTMENT OF MEDICINE
UNIVERSITY OF SASKATCHEWAN
ANNUAL REPORT 2019 – 2020

DERMATOLOGY

DR. DUANE LICHTENWALD
DIVISION HEAD

Faculty and Rank
Clinical Association Professor
Dr. Duane Lichtenwald
Assistant Professor
Dr. Kyle Cullingham
Dr. Kerry Gardner
Dr. Irina Oroz
Dr. Monica Miliszewski
Dr. Kirsten Walker

WELCOME
Dr. Irina Oroz, a native of Regina, obtained her medical degree from USask and completed her residency in dermatology at the U of Alberta. She earned her FRCPC in 2018. She is practicing general dermatology at Skinsense Dermatology.

Dr. Kirsten Walker obtained her Medical degree from Dalhousie University and completed her dermatology residency at the U of Toronto. She earned her FRCPC in 2019. She is practicing general dermatology at Skinsense Dermatology and has taken over the clinical trials at Skinsense Dermatology.

FAREWELL to Dr. Hawkins and Dr. Law. who have relocated to other provinces.

PATIENT CARE
All six Saskatoon dermatologist are full time private office-based fee for service physicians handling consultations predominantly from the northern half of the province.

Dr. Lichtenwald is the medical director of the phototherapy unit at RUH.

RESEARCH
Skinsense Dermatology currently has three ongoing clinical trials:
  i. Dupilimab for adolescents with atopic dermatitis,
  ii. An oral immune modulator for adults with atopic dermatitis,
  iii. A phosphodiesterase inhibitor (apremiplast) in mild to moderate psoriasis.

EDUCATION
Medical students, medical, surgical, pediatric and family medicine residents do elective time in the private dermatology offices of the division members.

Members of the division lecture in the undergraduate skin sciences course.

Members have lectured at provincial CME conferences for Family Physicians Pediatricians and Pharmacy.

Members of the division have a monthly accredited journal club and a monthly accredited clinical meeting to review challenging cases. These are attended by the division members, medical students interested in pursuing dermatology and students or residents doing dermatology electives.

DIVISION HIGHLIGHTS
This past year the division was pleased to welcome two new members, both graduates of the return of service program which has been in place for the last several years.
Congratulations to Dr. Terra Arnason for being awarded a CIHR Project Grant for *Functional dissection of the role of the Anaphase Promoting Complex in cellular longevity.*
GASTROENTEROLOGY & HEPATOLOGY

WELCOME
2019/20 saw the recruitment of the first two hepatologists in Saskatchewan, Dr. Nabeel Samad and Dr. Mina Niazi.

RESEARCH
Congratulations to Dr. Sharyl Fowler, principle investigator, for being awarded a Saskatchewan Health Research Foundation Sprout Grant to look at the experience of Saskatchewan patients using medicinal cannabis for inflammatory bowel disease.


PATIENT CARE
Advancement of endoscopic therapeutic intervention. Endoscopic Submucosal Dissection (ESD) is a new technique for resection of large cancers and precancerous lesions from the gastrointestinal tract. This allows curative resection of tumours that previously required surgical resection.

Another new procedure being performed is Per Oral Endoscopic Myotomy (POEM). This is a complete endoscopic approach to management of achalasia and associated esophageal motility disorders. These techniques are very new to North America and allow us to provide services locally that are limited in opportunity to very few centers across Canada.

Dr. Samson Haimanot has performed multiple ESD and POEM procedures this year in collaboration with Dr. Gowing from Thoracic Surgery.
**PATIENT CARE**

Dr. Basran shares clinical work with four family physicians in the Geriatric Evaluation and Management (GEM) program. The GEM physicians work with a full interdisciplinary team to provide home visits, outpatient clinics, consult service to all three Saskatoon hospitals, as well as a day hospital for frail older adults from across Saskatchewan.

In addition to providing comprehensive geriatric assessment and management, a key priority for the GEM program is education on geriatric core competencies to undergraduate students as well as practicing clinicians.

The GEM team also supported the development and training of the Community Health Centre at Market Mall where Dr. Basran spends her remaining clinical care time.

**LEADERSHIP ROLES**

In addition to clinical care, Dr. Basran is the Senior Medical Information Officer for the Saskatchewan Health Authority, where she is focusing on improving data and analytics, as well as co-leading system flow innovation projects within the Digital Health portfolio.

Dr. Basran is also a member of the Health Technology Expert Panel (HTERP) at Canadian Agency for Drugs and Technologies in Health (CADTH), where she participated in the creation of several national reports including:

GENERAL INTERNAL MEDICINE

DR. KEMPE GOWDA
DIVISION HEAD

RESIDENCY PROGRAM DIRECTOR
Dr. Jessie Baptiste

PROGRAM ADMIN ASST.
Sherrise Mareschal

Residents: 8

Faculty and Rank
Emeritus Professor
Dr. Thomas Wilson
Clinical Professor
Dr. Uddhav Bhalerao
Dr. Kempe Gowda
Dr. Nawal Sharma
Clinical Associate Professor
Dr. Sabyasachi Bose
Associate Professor
Dr. Heather Ward
Dr. Syed Ali
Assistant Professor
Dr. Raviqubal Basi
Dr. Sharon Card
Dr. Nathan Degenhart
Dr. Mark Fenske
Dr. Colin Gebhardt
Dr. Rodmehr Hafezi
Dr. Alexandra King
Dr. Benjamin Leis
Dr. Lori Mamchur

The General Internal Medicine Division has 41 Internists actively providing support to clinical services and educational activities at all three hospital sites in Saskatoon. Along with coverage for sixteen in-hospital services, GIM members provide support to management of diabetic patients at Westwind clinic, as well as the HIV Service and the Tuberculosis Unit at RUH.

Current clinical service is provided by the Division of General Internal Medicine as follows:

Royal University Hospital Clinical Service Coverage = 6
GIM members provide a significant number of weeks of call coverage to three clinical teaching units, and the Gold/Covid 19 unit along with other subspecialty members. All GIM members are actively involved in providing clinical service and teaching to medical students, residents and fellows. GIM consulting support is also provided for patients of General Surgery, Obstetrics and Gynecology, and other services.
St. Paul's Hospital  Clinical Service Coverage = 8
GIM provides clinical service support (along with sub-specialty members) to six Accountability Care Units. This has increased the quality care of patients at SPH. Patients requiring observation support are confined to fifth Medicine observation units. GIM is also involved in teaching residents, GIM fellows and medical students.

Members of the GIM division provide coverage to the Covid19 Unit and Overflow patients. GP Hospital Unit is covered by the GP Hospital Team.

GIM Surgical Internist consult service provides consultation service to patients of General Surgery, Vascular Surgery, Plastic Surgery and Urology service at SPH.

The GIM On Call Internist provides consultation service to medical patients for the Emergency Department at SPH and also ACAL coverage for consultations for patients referred from out of Saskatoon through the ACAL service.

Saskatoon City Hospital  Clinical Service Coverage =2
GIM provides clinical service as a Surgical Internist at SCH, providing consultation to the Pre-op Assessment Unit for surgical patients. Consultation service is provided to Rehab Medicine, the Geriatric Unit and Electro Diagnostics.

GIM members also provide weekend call coverage to the Rehab Medicine Unit when their own physician is not on call as well as providing coverage for Convalescent Unit patients at SCH.

Clinical Initiatives
The GIM Division is planning to establish an Urgent Consultation Referral Clinical and Post-Discharge follow-up clinics in the region.

Congratulations to Dr. Hassan Masri who was selected as one of two Teachers of the Year by the Resident Doctors of Saskatchewan. Residents nominate individuals who have demonstrated exceptional skill in delivering resident education. Nominees are then judged on several criteria including the quality of their teaching, their positive role modelling, their rapport with residents and their overall enthusiasm and commitment.
WELCOME

The Division of Infectious Diseases (ID) was very pleased to have Dr. Geoff Shumilak join us this year, dividing his clinical time between ID and Critical Care.

The most significant development impacting the ID Division in 2019-20 was the COVID-19 pandemic. All members of the Division became actively engaged in COVID-19 planning and policy development at both local and provincial levels, in addition to maintaining patient care activities.

- **Dr. Alice Wong**, Saskatoon Area Infection Prevention and Control (IPAC) clinical lead, was a key member of the Provincial IPAC Leadership Team.
- **Dr. Beverly Wudel** returned from parental leave earlier than planned, assisting with IPAC decisions in addition to serving on the Provincial PPE Task Force Committee.
- **Dr. Satchan Takaya** was co-chair of the Provincial Screening Working Group and has been named as the Provincial Pandemic Physician Leader for Infectious Diseases.
- **Dr. Geoff Shumilak** has been a key member of the Saskatoon Area committee that developed Critical Care protocols for management of patients requiring ICU care.
- **Dr. Stephen Sanche** was part of the Clinical Microbiology team that was successful in instituting COVID-19 testing in the microbiology lab at Royal University Hospital.
- **Dr. Shaqil Peermohamed and Dr. Siddharth Kogilwaimath** led efforts toward local COVID clinical trial involvement.

These activities are continuing into 2020-21 for all members; we are hopeful that will no longer be the case in 2021-22.
NEW INITIATIVES

Dr. E. van der Merwe has developed and implemented a new multidisciplinary clinic at St. Paul’s Hospital (Kidney Health Clinic) to care for patients living with Autosomal Dominant Polycystic Kidney disease. She also is the PI for patients cared for in Saskatoon that participate in Canadian Medical Assessment of JINARC Outcomes Registry form 2016 to current. This multicenter trial will determine whether the medication tolvaptan can delay loss of kidney function in persons with polycystic kidney disease at high risk of kidney failure.

Dr. A. Ahmed has initiated a multidisciplinary pediatric transition clinic for persons who are aged 17 years and are living with kidney disease or are on dialysis. Patients are seen at the kidney health clinic at St. Paul’s Hospital along with members of the pediatric and adult care teams to optimize the transfer of care and ongoing care of these individuals.

LEADERSHIP ROLES

Dr. A. Halpin and Dr. E. van der Merwe continue to participate on nation guideline committee for kidney failure conservative care pathways.

Dr. S. Shah is a member of the Royal College of Physicians and Surgeons’ nephrology examination board.

Dr. Barton continues to participate on local and national medical education committees such as the Professional Learning and Development Committee-Royal College, the AFMC CACME Committee, and the Physician Skills Enhancement Committee.
Saskatoon’s stroke program received **Acute Stroke Distinction** status from Accreditation Canada in October 2019. Acute Stroke Distinction is a rigorous and highly specialized program. Stroke distinction drives high-quality stroke care and ensures the organization and its members are performing at or above national standards. Having distinction status is an honour and helps strengthen staff recruitment and retention and supports research funding.

Clinical care changed dramatically with the **COVID-19** pandemic restrictions starting March 2020. Multidisciplinary clinics in multiple sclerosis (MS) and ALS/motor neuron disease clinics were developed on short notice to provide ongoing care to the people of the province. This is no small feat, as multiple disciplines were involved. Stroke Clinic provided ongoing care by transitioning to virtual visits, and a daytime provincial telestroke service was piloted in early 2020. **Dr. Paul Masiowski** has played a leading role since March in educating the public about COVID-19. He was active on social media and appeared in local television and newspaper coverage.

**Drs. Rajput, Poliakov and Levin** were active collaborators and featured guest speakers/resource persons for a multidisciplinary project entitled **NeuroSask: Active and Connected** which received a SHRF 2020-21 COVID-19 Rapid Response grant. The project remotely engaged people with multiple sclerosis, spinal cord injury and Parkinson’s disease. Sessions included participants from every province and even internationally.

**Leadership Roles**

**Dr. Michael Levin** (*Chair in MS Clinical Research - Neurology*) was selected to serve on the MS Society of Canada’s Medical Advisory Committee and has a lead role in the national Canadian MS Treatment Optimization Committee.
The Division of Respirology, Critical Care and Sleep Medicine continues to provide specialty outpatient and inpatient services and leadership at a variety of SHA and University levels. Our members contribute significantly to undergraduate and postgraduate teaching.

The Division also actively participated in additional clinical and administrative duties during the COVID-19 pandemic with active involvement on additional inpatient services (COVID and ICU), leadership in resumption of service planning, and leadership of the resumption of research at University of Saskatchewan.

The Division has had a very successful research year with more than 50 peer reviewed publications and 17 grants. One of our most prominent researchers, Dr. Marciniuk, co-authored a paper published in The New England Journal of Medicine.
The Division maintains a very active research program in **INDIGENOUS HEALTH**; Dr. Fenton and Dr. Graham have completed important work on reference equations for pulmonary function tests in Saskatchewan First Nations. In addition, Drs. Fenton and Skomro have collaborated with Dr. Dosman (CCHSA) on a CIHR funded project addressing disparities in sleep health among First Nations people.

The following Division members received **NATIONAL/INTERNATIONAL AWARDS AND HONOURS**:

- **Dr. Donald W Cockcroft** received the Outstanding Review Award for the *Annals of Allergy, Asthma and Immunology*: American College of Allergy Asthma and Immunology. November 2019.

- **Dr. John Gordon** was inducted as a Fellow into the Canadian Academy of Health Sciences in recognition of his 30 plus years of research on therapeutics in allergic and other inflammatory diseases. September 2019.

- **Dr. Brian L Graham** was awarded the Dr. Robert Crapo Memorial Lifetime Achievement Award in Pulmonary Diagnostics for 2020.

- **Dr. Chung-Chun (Anderson) Tyan** and his co-authors, received the Chris Bolliger Award from *Respiration, the International Journal of Thoracic Medicine*. The prize is awarded to researchers who have published an original article which received the most citations in the previous year. October 2019.

- **Dr. Robert Skomro** became Vice President of Canadian Sleep Society in 2019.
The Saskatoon Division of Rheumatology continues to have ten adult rheumatologist members. We continue to support a subspecialty residency program and have had four rheumatology residents during the 2019-20 academic year.

Saskatoon division members participate in all aspects of the department and university mission including research, teaching, administration and clinical service delivery. Division members participate in national committees and in national scientific conferences.

In addition to general rheumatology clinics, several members have developed more focused areas of special clinical service including:

- **Dr. Keltie Anderson** (in collaboration with Dr. Veronica Marcoux in respiratory medicine) holds a combined rheumatology/respiratory disease clinic to assess and treat patients with intersecting disease presentations such as interstitial lung disease.

- **Dr. Jodie Reis** (in collaboration with Dr. Sharyl Fowler in GI) holds a combined rheumatology/GI clinic for patients with MSK involvement related to inflammatory bowel disease. Dr. Reis also supports a post-hip fracture referral pathway clinic and has an increasing interest in bone health for cancer clinic patients on hormone replacement therapy.

- **Dr. Olszynski** continues to work in the clinical area of osteoporosis.

- **Dr. Bindu Nair** is actively growing an axial spondyloarthritis outpatient clinic practice.

- **Dr. Tun Nyo** is increasingly called upon for his expertise in clinical ultrasound assessment especially in the setting of giant cell arteritis.
REGINA DIVISION REPORTS
It has been a challenging and yet inspiring year. I have had a front row seat watching the leadership of the members of the Department of Medicine as they work tirelessly to create processes and improve quality during the COVID pandemic.

I have been immensely proud of the work done in the Department of Medicine. Department members went above and beyond, working at “warp” speed to address the many challenges brought on by the COVID pandemic.

Regina medicine provided leadership to our local area as well as to the province with several provincial initiatives being led by members of the department. It was inspiring to see the provincial collaboration and product of that teamwork.

Our department established a quality committee prior to COVID, and it will be our challenge in the coming year to support this work.

We have had some success in recruitment and will continue to focus on this important strategy to ensure stability, sustainability and patient and physician wellness.

I look forward to working with you over the next year.

Dr. Bonnie Richardson MD, FRPC
Area Lead – Regina
CARDIOLOGY – REGINA

**INITIATIVES**
We have recently taken over management of the Lipid Clinic in Regina, rebranding it as a **Cardiac Risk Clinic** to reflect management of Cardiac risk beyond lipids, including Diabetes and Rehabilitation.

We are continuing to expand the TAVI program.

**ENHANCED RESEARCH CAPACITY**
The Prairie Vascular Research Group, led by **Dr. Dehghani** and **Dr. Lavoie** continues to provide significant output of research from the Regina base with multiple publications and presentations.

**LEadership Positions**
**Dr. Zimmermann** has just completed his role as Treasure of the Canadian Cardiovascular Society and remains the Chair of the External Relations Committee.

**Dr. Dehghani** has played a large role in development of a North American Initiative for Development of A COVID-19 ST-Elevation Myocardial Infarction Registry.

**Dr. Lavoie** is Secretary of the Canadian Association of Interventional Cardiology and on the Royal College AFC Subcommittee of Interventional Cardiologists She also sits on the Board of The Hospitals of Regina Foundation and is the Director and Chair of the Prairie Cardiac Foundation.

**ConGRATULATIONS** to **Dr. Lavoie** for her designation as a Fellow of the American College of Cardiology.

---

**Faculty and Rank**
**Clinical Professor**
- Dr. Ayman Aboguddah
- Dr. Hassan Gargoum
- **Dr. Rodney Zimmermann**

**Clinical Associate Professor**
- Dr. Wladyslaw Wojcik
- Dr. Payam Dehghani

**Assistant Professor**
- Dr. Jeffrey Booker
- Dr. Vernon Gebhardt
- Dr. Andrea Lavoie
- Dr. Dakshina Murthy,
  - Dr. Omar Sultan
  - Dr. Colin Yeung
  - Dr. Yang Zhan
- Dr. Wenwan Zhou
DERMATOLOGY – REGINA

Dr. Karen Holfeld

Division Head

Faculty and Rank
Clinical Professor
  Dr. Roberta McKay
Clinical Associate Professor
  Dr. Karen Holfeld
Assistant Professor
  Dr. Mariam Abbas
  Dr. Rachel Asiniwasis
  Dr. Olivia Potok

EDUCATION
Dr. Holfeld is the new UGME dermatology module Director as well as the Dermatology Residency Program Director. There are two residents in the program at present. The first two years of the program are in Saskatchewan and the last three are through the University of Alberta in Edmonton.

RESEARCH
Dr. Asiniwasis continues her work with Saskatchewan’s remote Indigenous communities. She was invited to present the 20th Annual Dr. Arthur Birt Memorial Lecture (November 2019) at the University of Manitoba Dept. of Pediatrics & Child Health in Winnipeg where she presented “Complex Dermatology in Remote and Northern Saskatchewan’s First Nations Pediatric Population.”
**COVID-19 REPRESENTATION**

Dr. Kevin Hamming and Dr. Jeremy FitzGerald served as Coronavirus (COVID-19) Department of Medicine Task Force Members to assist with strategic planning in preparation for the COVID-19 pandemic.

**QUALITY IMPROVEMENT INITIATIVES**

Dr. Hamming and Dr. FitzGerald played a prominent role in the collaborative revision of two Preprinted Order Sets (PPOs) to improve diabetes care for patients living in the Regina Area by minimizing the risk of medication errors in these specific patient populations.

**March 2020** - Revisions to Insulin Preprinted Order Set 455 (PPO-455) to update recommended glucose targets for non-critically diabetic patients in hospital and to include Tresiba insulin on the order set.

**March 2020** - Revisions to Insulin Preprinted Order Set 655 (PPO-655) to update recommended glucose targets for patients undergoing cardiac surgery and to include Tresiba insulin on the order set.

A separate order set was created in response to the ongoing COVID pandemic to allow patients admitted to the inpatient setting with Diabetic Ketoacidosis (DKA) to be managed on the medical ward, allowing critical care beds to be utilized for patients with COVID-19 given these patient’s higher acuity and ventilatory dependant needs.

GASTROENTEROLOGY – REGINA

NOTABLE PUBLICATION
Dr. Reuda-Clausen was a co-author of *Obesity in Adults: A Clinical Practice Guideline* published in the Canadian Medical Journal

RESEARCH FUNDING
Dr. Reuda-Clausen is Co-PI for 2020 Rapid Response COVID 18 Research Award. *Development and testing of a prototype mouthpiece to reduce aerosol production during upper endoscopic procedures*

Faculty and Rank
Clinical Professor
Dr. James McHattie

Assistant Professor
Dr. Massud Ali
Dr. Sanchit Bhasin
Dr. George Chami
Dr. Michael O’Byrne
Dr. Chris Rueda-Clausen
The Division of General Internal Medicine is a group of General Internists who work on a fee-for-service basis providing teaching, research, and clinical care in the tertiary referral centres in Regina.

Regina Out-Patient Clinical Care and hospital coverage includes:
- pre-operative consult service
- 2 hospital based GIM consultants
- General Internal Medicine ward

The Regina General Hospital now has four admitting lines to manage the Medicine wards. This has improved physician wellness with a decrease in the number of call nights, and improved flow.

**Education**
During the 2019 – 2020 academic year there were 16 trainees in PGY1 – PGY3

**Dr. Marc Reeson** was appointed as the Residency Program Director for the CTU in Regina.

**Covid**
**Dr. Liz Gibbings** took an active role in developing the pandemic skills enhancement program in the beginning of the pandemic (April-June 2020).

A Pandemic Day Admitter program was developed and funded in July 2020. This program has significantly improved the flow from the Emergency Room and has stabilized medicine admissions, so patients get immediately transferred to a medical ward.

**Welcome** to new faculty members who joined the GIM team in 2019/20:
- Dr. Babatunde Adewunmi
- Dr. Anmol Cheema
- Dr. Olumide Ogundare
- Dr. Kathryn Whittemore
- Dr. Rosemary Serwadda (from Swift Current)
The Infectious Diseases Division in Regina has been a leader in the development and implementation of treatment for communicable diseases such as HIV and Hepatitis.

Along with teaching, education and research, division members provide on call clinical services as well as outpatient clinics.

**CLINICAL INITIATIVES**

**Dr. Skinner**
- Development of the COVID-19 Regina Inpatient Screening and Infection Control Pathway
- Lead for Division of Infectious Diseases COVID-19 Response in Regina
- Development of the diabetic foot ulcer initiative and pathway to reduce lower limb amputations with Touchwood Agency Tribal Council
- Clinical director for the Wellness Wheel Mobile Outreach Clinics for First Nations
- HIV and Hepatitis C Elimination in Ahtahkakoop and Big River First Nations
- Clinical care and development of a Virtual Care Clinic (VCC) for Saskatchewan First Nation communities for COVID-19 testing/care/support for First Nation communities
- Development and implementation of a pharmacy-based HIV point-of-care testing pilot
- Development and implementation of a pharmacy-based initiation of HIV pre-exposure prophylaxis pilot.

**Dr. Wong**
- Medical Lead for Assisted Self-Isolated Sites (ASIS) Programming for Saskatchewan Health Authority.
- Ongoing clinical outreach work in a variety of high-risk settings: addictions medicine, community pharmacies, correctional facilities.
- Various task-shifting initiatives for HIV and HCV care in community settings, including nurse-led and pharmacist-led work.
• Ongoing medical lead for HIV Pre-Exposure Prophylaxis (PrEP) programming covering southern Saskatchewan.
• Completion of phase 3 programming for long-acting injectable HIV medications, including byline publication in *Lancet*.
• Initiation of first HBV cure study in Saskatchewan.

**Dr. Lee**
• COVID-19 Virtual Wards and Intensive Care Initiative
• Provincial Home Health Monitoring for various conditions
• Digital Health Co-Lead (Regina) for Saskatchewan Health Authority (above programs part of this role)
• Provincial COVID-19 Evidence Committee (ID Lead)
• Member of LINK Call Service
• Contributor to National Institute of Health (USA) National COVID Cohort Collaborative (N3C)
• Various pre-printed order creation (PROM, blood-borne exposures)

**AWARDS:**

**Dr. Skinner**
• Global Grand Prize in the Coalition for Global Hepatitis Elimination video contest for the Hepatitis C program in Ahtahkakoop Cree Nation
• 1 of 3 International models of Hepatitis C care to be showcased at a plenary and by a video documentary at the 8th International Conference on Hepatitis Care in Substance Users (INHSU)
• Ward of the 21st Century (W21C) health innovation competition award for most promising idea for health care innovation for Wellness Wheel, University of Calgary, October 2019.

**Dr. Lee**
• Top 5 Finalist in Design Challenge in American Medical Informatics Association Conference, 2019.
• Accepted into startup incubator (Conexus Cultivator) for N-wton (idea regarding big data in medicine)

**INDIGENOUS HEALTH INITIATIVES**

**Dr. Skinner, Dr. Wong, Dr. Lee**
• Wellness Wheel Mobile Outreach Clinic for First Nation Communities
• Indigenous Wellness Research Community Network

**Dr. Wong**
• Participation in national correctional SARS-CoV-2 sero-prevalence survey in conjunction with COVID-19 Immunity Task Force.
Dr. Skinner

- Video development for Ahtahkakoop Cree Nation showcasing Indigenous community leadership in Hepatitis C and health initiatives
- Development of the diabetic foot ulcer initiative and pathway to reduce lower limb amputations with Touchwood Agency Tribal Council
- Clinical director for the Wellness Wheel Mobile Outreach Clinics for First Nations
- Hepatitis C Elimination in Ahtahkakoop and Big River First Nations
- Clinical care and development of a Virtual Care Clinic (VCC) for Saskatchewan First Nation communities for COVID-19 testing/care/support for First Nation communities
- Development and implementation of a provincial Indigenous peer program entitled ‘Peer Health Advocate Wellness Network (PHAWN)’
Nephrology – Regina

Dr. Siva Karunakaran
Division Head

Faculty and Rank

Clinical Associate Professor
Dr. Mohamed Abdulhadi
Dr. Bhanu Prasad
Dr. Siva Karunakaran

Associate Professor
Dr. Bonnie Richardson

Assistant Professor
Dr. Syed Amin
Dr. Dorothy Thomas

Congratulations to Dr. Bonnie Richardson who was promoted to Associate Professor

The nephrologists work in a multidisciplinary Kidney Health Center which serves chronic kidney disease patients, home dialysis patients and chronic kidney stone patients.

Most of our work this year was focused on Pandemic planning.

COVID

Dr. Dorothy Thomas was seconded into leadership as the Pandemic Area Chief of Staff for Regina and was co-commander of the local Integrated Health Incident Command Center.

She was recognized as the Regina Administrator of the Year by the Department of Medicine

Quality Improvement

Along with serving as Regina Area Lead, Dr. Bonnie Richardson continues to provide leadership in the hemodialysis and therapeutic plasma exchange and has recently embarked on a quality improvement project with chronic pain pathways and program expansion for red cell transfusions. The project was selected for a Canadian Quality Improvement Program (CQIP).

Dr. Thomas is leading the quality improvement for our Chronic Kidney Care Redesign Project together with the multidisciplinary CKD team. Our aim is to ensure patient care is delivered in the most patient centre approach in keeping with the SHA values.
NEUROLOGY – REGINA

DR. MELAD SHAWUSH
DIVISION HEAD

Faculty and Rank
Clinical Professor
Dr. Felix Veloso
Assistant Professor
Dr. Mohammad Ijaz
Dr. Vinesh Pillay
Dr. Hakim Raghig
Dr. Ziaur Rehman
Dr. Syed Rizvi
Dr. Melad Shawush
The division provides a variety of services such as interventional therapy like bronchoscopy and Endobronchial Ultrasound (EBUS).

**EDUCATION**

Dr. Tallon has taken on the role of CBD Lead for Regina students.

The Division of Respirology continues to have a strong presence on the CTU. Both Dr. Belak and Dr. Tallon participate on the teaching unit regularly and are fond of teaching respirology procedures to the residents such as chest tube insertion and management as well as thoracentesis.
RHEUMATOLOGY - REGINA

We are happy to WELCOME Dr. Cairsten McDougall to Regina as our fourth rheumatologist starting Sept 1, 2020.

EDUCATION
This year the Internal Medicine residents who were rotating through Rheumatology are participating in the weekly Provincial Rheumatology Rounds.

DR. ARDYTH MILNE
DIVISION HEAD

Faculty and Rank

Clinical Professor
Dr. Robert McDougall

Assistant Professor
Dr. Nicole Fahlman
Dr. Ardyth Milne
(stars Sept 1, 2020) Dr. Cairsten McDougall
**CRITICAL CARE ASSOCIATES (CCA) – REGINA**

![Image of Dr. Hennie Van Der Merwe]

**DR. HENNIE VAN DER MERWE**

**DIVISION HEAD**

Division Members:
- 25 Family Physicians

**COVID**
The Division of Critical Care Associates (CCA) has been a key player in the development and leadership of the COVID Airway Code Blue teams in the Regina General Hospital and the Pasqua Hospital. The CCA developed an upskilling program for non-critical care physicians to gain essential ICU skills in preparation for the COVID-19 surge. This program is designed for rural doctors to gain confidence with resuscitation skills by working alongside CCAs. Several physicians have already successfully completed this program.

**CLINICAL INITIATIVE**
In collaboration with the Division of Neurology, we have implemented the inpatient stroke protocol to cut down the in-hospital treatment time to rTPA. The CCA provides the initial physician assessment for potential stroke patients who are admitted, therefore cutting down on the lead time to thrombolytic therapy.

**EDUCATION**
The CCAs have maintained involvement in simulation sessions including COVID-19 Airway simulations. We continue to invest time in CME opportunities with the continuation of our case study/M&M rounds, journal clubs, toxicology rounds and syllabus builder. Members of the division remain active participants in the Critical Care Management committee and the Department of Medicine Quality Improvement committee.

**TEACHING**
Over the last year, several division members have attained formalized teaching positions with the University of Saskatchewan College of Medicine. All of our CCAs remain actively involved in resident bedside teaching in the ICUs. We are excited to announce the new CCA teaching initiative for undergraduate medical students to gain clinical experience in the renal unit.
Physical Medicine & Rehabilitation – Regina

Physical Medicine & Rehabilitation provide inpatient and outpatient rehabilitation services through Wascana Rehabilitation Centre (WRC) for the southern half of Saskatchewan.

Clinical Initiatives
Due to the COVID-19 pandemic resulting in restrictions to in-person clinical delivery, the Department of PM&R is working to establish a comprehensive virtual care model at WRC. This includes both inpatient and outpatient care services.

- Inpatient team conferences are now able to be held with the multidisciplinary team, patients and their families via videoconference. This allows patients to connect with their families, and families to participate virtually in rehabilitation.
- Virtual outpatient clinics have been established including multidisciplinary Prosthetics Clinics and virtual consultations with remote hospitals.
- Pediatric rehabilitation through the Children’s Program at WRC has also been providing virtual therapy and physician appointments. Feedback from patients and healthcare professionals has overall been quite positive.

Leadership
- Dr. Shane Wunder served as a Pandemic Physician Co-Lead for Virtual Care SHA (Regina Area) providing leadership in developing virtual care strategies for the Regina Area.
- Dr. Kraushaar served as both the Regina Area PM&R Pandemic Physician Lead and the Pandemic Physician Site Lead for WRC providing leadership and support for patient care needs and planning for surge capacity.
ACADEMIC
In order to further expand our knowledge about Indigenous health and wellness within our Department and better support our patients, several faculty and residents are participating in “The Role of Practitioners in Indigenous Wellness” course offered through the University of Saskatchewan.

FAREWELL
We would like to wish Dr. Milo Fink a very well deserved and happy retirement. Dr. Fink began working at Wascana Rehabilitation Centre in 1987 and retired in June 2020. Throughout his career, Dr. Fink provided strong leadership both clinically and academically not only within our department but in the Regina Area. This past year, Dr. Milo Fink received an honorary lifetime membership to the CMA for medical leadership.
SASKATCHEWAN HEALTH AUTHORITY AREAS
NE AREA – Prince Albert

**DR. ADEL BEN-SALEH, – NE AREA LEAD**

**Faculty and Rank**

*Assistant Professor*

- Dr. Paul Acheampong (GIM)
- Dr. Adel Ben-Saleh (GIM)
- Dr. Radu Ilie-Haynes (GIM)
- Dr. Allison Martin (GIM)

Four internists provide internal medicine consults and ICU care for referred patients from family physician and ER physicians. They also provide educational rounds for medical students.

**NEW CLINICAL INITIATIVES**

We run team-based multidisciplinary Diabetic and Heart Failure Clinics.

**RESEARCH**

Dr. Paul Acheampong is leading clinical research work in the areas of physician and patient perspectives on the use of virtual care.

---

SW AREA – Moose Jaw and Swift Current

**DR. FAUZI RAMADAN – SW AREA LEAD**

**Faculty and Rank**

*Clinical Associate Professor*

- Dr. Wadea Tarhuni (Cardiology)

*Assistant Professor*

- Dr. Jeffrey Wilkinson (Cardiology)
- Dr. Alexandra Akinfioresoye (GIM)
- Dr. Muhammad Aslam (GIM)
- Dr. Robin Colwell (GIM)
- Dr. Falah Majid (GIM)
- Dr. Tadeyo Khonje (GIM)
- Dr. Fauzi Ramadan (GIM)
- Dr. Omar Rodwan (GIM)

---

SE AREA – Yorkton

**DR. SALIU OLOKO – SE AREA LEAD**

Assistant Professor GIM

---

NW AREA – North Battleford

**DR. ABDUL LOOKMAN – NW AREA LEAD**

Assistant Professor GIM
DEPARTMENT of MEDICINE RESEARCH FUNDING

SECTION VII
## Research Grants July 1, 2019 – June 30, 2020

(Main Source of Information: USask Uview)

<table>
<thead>
<tr>
<th>PI</th>
<th>Division</th>
<th>Agency</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Terra Arnason</td>
<td>Endocrinology and Metabolism</td>
<td>CIHR Project Grant: Canadian Institutes of Health Research</td>
<td>Functional dissection of the role of the Anaphase Promoting Complex in cellular longevity</td>
</tr>
<tr>
<td>Dr. Jim Barton</td>
<td>Nephrology</td>
<td>College of Medicine – Dean’s Project</td>
<td>Transformational Change in Post Graduate Trainees Following Cultural Responsiveness Training</td>
</tr>
<tr>
<td>Dr. Jim Barton</td>
<td>Nephrology</td>
<td>The Saskatchewan College of Family Physicians</td>
<td>Exploring barriers and motivators to physician engagement in Saskatchewan</td>
</tr>
<tr>
<td>Dr. Jim Barton</td>
<td>Nephrology</td>
<td>Committee on Rural and Remote Physicians-Saskatchewan Medical Association</td>
<td>Exploring barriers and motivators to physician engagement in Saskatchewan</td>
</tr>
<tr>
<td>Dr. Sharon Card</td>
<td>General Internal Medicine</td>
<td>Department of Medicine</td>
<td>Exploring and identifying factors that promote and impede successful entrustable professional activity (EPA) completion.</td>
</tr>
<tr>
<td>Dr. Donald Cockcroft</td>
<td>Respirology Critical Care and Sleep Medicine</td>
<td>Astrazeneca Ab</td>
<td>D8900C00004: A Phase Ila, Double-Blind, Randomized, Parallel Group, Placebo Controlled Multi-Centre Study to Evaluate the Effect of AZD8154 Administered via Nebulizer Once Daily on Allergen-Induced Inflammation in Subjects with Mild Allergic Asthma Challenged with an Inhaled Allergen</td>
</tr>
<tr>
<td>PI</td>
<td>Division</td>
<td>Agency</td>
<td>Title</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>---------------------------------</td>
<td>--------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr. Donald Cockcroft</td>
<td>Respirology Critical Care and Sleep Medicine</td>
<td>Department of Medicine</td>
<td>Tiotropium efficacy against allergen induced early asthmatic responses</td>
</tr>
<tr>
<td>Dr. Reuda Clausen (Co-PI)</td>
<td>Gastroenterology – Regina</td>
<td>2020 Rapid Response COVID-19 Research Award</td>
<td>Development and testing of a prototype mouthpiece to reduce aerosol production during upper endoscopic procedures</td>
</tr>
<tr>
<td>Dr. Payam Dehghani</td>
<td>Cardiology-Regina</td>
<td>Saskatchewan Health Research Foundation (SHRF)</td>
<td>North American COVID 19 STEMI registry</td>
</tr>
<tr>
<td>Dr. Sharyle Fowler</td>
<td>Gastroenterology and Hepatology</td>
<td>Saskatchewan Health Research Foundation Sprout Grant</td>
<td>Medicinal Cannabis in Inflammatory Bowel Disease: The experience of patients in Saskatchewan</td>
</tr>
<tr>
<td>Dr. Sharyle Fowler</td>
<td>Gastroenterology and Hepatology</td>
<td>Abivax</td>
<td>ABX464-103: A randomized, double blind, placebo controlled, parallel group, multiple dose, induction study to evaluate the safety, tolerability and optimal dose of ABX464 compared with placebo in patients with moderate to severe ulcerative colitis who have inadequate response, loss of response, or intolerance with at least one of the following agents</td>
</tr>
<tr>
<td>Dr. Sharyle Fowler</td>
<td>Gastroenterology and Hepatology</td>
<td>F. Hoffmann-La Roche Ltd</td>
<td>Confidentiality Agreement with Hoffmann-La Roche Limited for Protocol MA41419</td>
</tr>
<tr>
<td>Dr. Sharyle Fowler</td>
<td>Gastroenterology and Hepatology</td>
<td>IQVIA</td>
<td>ABX464-104: Confidential Disclosure Agreement</td>
</tr>
<tr>
<td>Dr. Sharyle Fowler</td>
<td>Gastroenterology and Hepatology</td>
<td>IQVIA</td>
<td>I6T-MC-AMAN: A Phase 3, Multicenter, Randomized, Double-Blind, Parallel, Placebo-Controlled Induction Study of Mirikizumab in Conventional-Failed and Biologic-Failed Patients with Moderately to Severely Active Ulcerative Colitis</td>
</tr>
<tr>
<td>Dr. Sharyle Fowler</td>
<td>Gastroenterology and Hepatology</td>
<td>IQVIA</td>
<td>STUDY START-UP AGREEMENT: A Phase 3, Multicenter, Randomized, Double-Blind, Parallel, Placebo-Controlled Induction Study of Mirikizumab in Conventional-Failed and Biologic-Failed Patients with Moderately to Severely Active Ulcerative Colitis”, Protocol I6T-MC-AMAN</td>
</tr>
<tr>
<td>Dr. Sharyle Fowler</td>
<td>Gastroenterology and Hepatology</td>
<td>Janssen Inc.</td>
<td>Confidential Disclosure Agreement with Janssen and Parexel for CTNO1959CRD3001</td>
</tr>
<tr>
<td>Dr. Regina Gjevre</td>
<td>Rheumatology</td>
<td>Arthritis Society</td>
<td>Building capacity for rheumatology health data research in Saskatchewan</td>
</tr>
<tr>
<td>Dr. Regina Gjevre</td>
<td>Rheumatology</td>
<td>Department of Medicine</td>
<td>Health Literacy Needs of People with COPD or Heart Failure</td>
</tr>
<tr>
<td>PI</td>
<td>Division</td>
<td>Agency</td>
<td>Title</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>-----------------------</td>
<td>---------------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr. Regina Gjevre</td>
<td>Rheumatology</td>
<td>Euroqol Research Foundation</td>
<td>Health Literacy Needs of Patients with COPD or Heart Failure (HF)</td>
</tr>
<tr>
<td>Dr. Regina Gjevre</td>
<td>Rheumatology</td>
<td>Respiratory Research Centre</td>
<td>Treatment acceptance and adherence in patients with Obstructive Sleep Apnea: Examining the roles of health literacy and self-efficacy</td>
</tr>
<tr>
<td>Dr. Regina Gjevre</td>
<td>Rheumatology</td>
<td>Saskatchewan Centre for Patient-Oriented Research</td>
<td>Improving Care of Mental Health Clients in the ED (PEADA)</td>
</tr>
<tr>
<td>Dr. Regina Gjevre</td>
<td>Rheumatology</td>
<td>Saskatchewan Health Research Foundation</td>
<td>The influence of health literacy and self-efficacy on treatment acceptance and adherence in patients with Obstructive Sleep Apnea</td>
</tr>
<tr>
<td>Dr. Regina Gjevre</td>
<td>Rheumatology</td>
<td>Swinburne University of Technology</td>
<td>HLQ License: Health Literacy: Reducing Inequities and Improving Outcomes for Clients Using Mental Health Services</td>
</tr>
<tr>
<td>Dr. Regina Gjevre</td>
<td>Rheumatology</td>
<td>University of Manitoba</td>
<td>Under-reporting in Abuse of Older Adults in the Prairie Provinces</td>
</tr>
<tr>
<td>Dr. Donna Goodridge</td>
<td>Respirology</td>
<td>Respiratory Research Centre</td>
<td>Health Literacy, Deferred and Virtual Health Care Visits and Health Concerns of Tenants in Social Housing during the COVID-19 Pandemic</td>
</tr>
<tr>
<td>Dr. Donna Goodridge and Dr. Mark Fenton</td>
<td>Respirology</td>
<td>Saskatchewan Health Research Foundation, Collaborative Innovation Grant.</td>
<td>Treatment acceptance and adherence in patients with obstructive sleep apnea: examining the roles of health literacy and self-efficacy</td>
</tr>
<tr>
<td>Dr. Donna Goodridge and Dr. Mark Fenton</td>
<td>Respirology</td>
<td>Respiratory Research Centre, Team Building Grant.</td>
<td>Treatment acceptance and adherence in patients with obstructive sleep apnea: examining the roles of health literacy and self-efficacy</td>
</tr>
<tr>
<td>Dr. Brett Graham</td>
<td>Neurology</td>
<td>Department of Medicine</td>
<td>Saskatoon Stroke Prevention Clinic Nurse-led, Telephone-based Secondary Prevention Follow-Up</td>
</tr>
<tr>
<td>Dr. Brett Graham</td>
<td>Neurology</td>
<td>Saskatchewan Health Authority</td>
<td>ESCAPE LATE: A multicenter, retrospective study looking at the potential benefit of mechanical thrombectomy among patients with acute ischemic stroke due to proximal large vessel occlusion when treated beyond six (6) hours from time last seen well compared to medical treatment alone</td>
</tr>
<tr>
<td>Dr. Brett Graham</td>
<td>Neurology</td>
<td>Saskatchewan Health Authority</td>
<td>SECRET – Study of rivaroxaban in cERebra venous Thrombosis</td>
</tr>
<tr>
<td>PI</td>
<td>Division</td>
<td>Agency</td>
<td>Title</td>
</tr>
<tr>
<td>------------------</td>
<td>------------------------</td>
<td>---------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr. Brett Graham</td>
<td>Neurology</td>
<td>Saskatchewan Health Authority</td>
<td>TOP-SECRET: registry for Prognosis after cerebral venous thrombosis in those ineligible for SECRET</td>
</tr>
<tr>
<td>Dr. Haissam Haddad</td>
<td>Cardiology</td>
<td>Department of Medicine</td>
<td>Optimizing the Care of Patients with Coronary Artery Disease</td>
</tr>
<tr>
<td>Dr. Haissam Haddad</td>
<td>Cardiology</td>
<td>Novartis Pharmaceuticals Canada Inc.</td>
<td>RUH: Optimization of Heart Failure Therapy in Hospital</td>
</tr>
<tr>
<td>Dr. Haissam Haddad</td>
<td>Cardiology</td>
<td>University Relations</td>
<td>Chronic Disease Quality of Care Improvement Research Fund</td>
</tr>
<tr>
<td>Dr. Vernon Hoeppner</td>
<td>Respiratory</td>
<td>Saskatchewan Health Authority</td>
<td>Recurrent tuberculosis in Canada - translating whole genome sequence insights into best public health practice</td>
</tr>
<tr>
<td>Dr. Gary Hunter</td>
<td>Neurology</td>
<td>Saskatchewan Health Authority</td>
<td>PROTEST TRIAL: PROphylaxis for Venous ThromboEmbolism in Severe Traumatic Brain Injury, a double-blind Randomized Controlled Trial</td>
</tr>
<tr>
<td>Dr. George Katselis</td>
<td>CCHSA</td>
<td>Department of Medicine</td>
<td>Get your head straight: A pilot study of vibration-related micro-concussions</td>
</tr>
<tr>
<td>Dr. Alexandra King</td>
<td>General Internal Medicine</td>
<td>Canadian Institutes of Health Research</td>
<td>Wuniska! Indigenous Centre on HIV/HCV/STBBI Inequities</td>
</tr>
<tr>
<td>Dr. Alexandra King</td>
<td>General Internal Medicine</td>
<td>College of Medicine</td>
<td>Wuniska! Indigenous Centre on HIV/HCV/STBBI Inequities: matching funds from College of Medicine</td>
</tr>
<tr>
<td>Dr. Alexandra King</td>
<td>General Internal Medicine</td>
<td>Office of the Vice-President Research</td>
<td>Wuniska! Indigenous Centre on HIV/HCV/STBBI Inequities</td>
</tr>
<tr>
<td>Dr. Shelley Kirychuk</td>
<td>CCHSA</td>
<td>College of Medicine</td>
<td>One of these things is not like the other: Unraveling the sex differential inflammatory response to airborne agriculture exposures</td>
</tr>
<tr>
<td>Dr. Shelley Kirychuk</td>
<td>CCHSA</td>
<td>Mitacs</td>
<td>The Anti-Inflammatory Potential of Natures Immuno on Inflammation Induced by LPS (for Amanda Nascimento)</td>
</tr>
<tr>
<td>Dr. Shelley Kirychuk</td>
<td>CCHSA</td>
<td>Natural Sciences and Engineering Research Council of Canada</td>
<td>Antimicrobial resistance genes in bioaerosols in Canadian arctic, rural, and urban environments: sources, profiles, transport and fate</td>
</tr>
<tr>
<td>Dr. Shelley Kirychuk</td>
<td>CCHSA</td>
<td>Respiratory Research Centre</td>
<td>Effects of Low elevations of CO2 on lung infection and inflammation</td>
</tr>
<tr>
<td>Dr. Joshua Lawson</td>
<td>CCHSA</td>
<td>Office of the Vice-President Research</td>
<td>Global Ambassador Award Incoming for Dr. Grzegorz Brozek</td>
</tr>
<tr>
<td>PI</td>
<td>Division</td>
<td>Agency</td>
<td>Title</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------------</td>
<td>----------------------------------------</td>
<td>--------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr. Joshua Lawson</td>
<td>CCHSA</td>
<td>Office of the Vice-President Research</td>
<td>Global Ambassador Award Outgoing</td>
</tr>
<tr>
<td>Dr. Joshua Lawson</td>
<td>CCHSA</td>
<td>Respiratory Research Centre</td>
<td>Visiting Scholar Grant</td>
</tr>
<tr>
<td>Dr. Stephen Lee</td>
<td>Infectious Diseases</td>
<td>Department of Medicine</td>
<td>Leveraging Big Data for Discovery of Novel Insights in Medicine: Clostridium Difficile Disease</td>
</tr>
<tr>
<td>Dr. Rahul Mainra</td>
<td>Nephrology</td>
<td>University of British Columbia</td>
<td>Canadian-Australasian Randomised Trial of Screening Kidney Transplant Candidates For Coronary Artery Disease: CARSK</td>
</tr>
<tr>
<td>Dr. Darcy Marciniuk</td>
<td>Respirology Critical Care and Sleep Medicine</td>
<td>Arrowhead Pharmaceuticals, Inc.</td>
<td>CONFIDENTIAL DISCLOSURE AGREEMENT with Arrowhead Pharmaceuticals, Inc.</td>
</tr>
<tr>
<td>Dr. Darcy Marciniuk</td>
<td>Respirology Critical Care and Sleep Medicine</td>
<td>IQVIA</td>
<td>Confidential Disclosure Agreement with IQVIA for a study relating to molecule “RPL554”</td>
</tr>
<tr>
<td>Dr. Darcy Marciniuk</td>
<td>Respirology Critical Care and Sleep Medicine</td>
<td>Sanofi-Aventis Canada Inc.</td>
<td>A Randomized, Double-blind, Placebo-controlled, Parallel-group, 52-week Pivotal Study to Assess the Efficacy, Safety, and Tolerability of Dupilumab in Patients with Moderate-to-severe Chronic Obstructive Pulmonary Disease (COPD) with Type 2 inflammation</td>
</tr>
<tr>
<td>Dr. Veronica Marcoux</td>
<td>Respirology Critical Care and Sleep Medicine</td>
<td>Department of Medicine</td>
<td>Improving Interstitial Lung Disease Care in Royal University Hospital</td>
</tr>
<tr>
<td>Dr. Bindu Nair</td>
<td>Rheumatology</td>
<td>Department of Medicine</td>
<td>Comorbidity Monitoring in Spondyloarthritis</td>
</tr>
<tr>
<td>Dr. Colin Pearce</td>
<td>Cardiology</td>
<td>Milestone Pharmaceuticals Incorporated</td>
<td>NODE-303: Multi-Centre, Multi-National, Open Label, Safety Study of Etipaml Nasal Spray for Patients with Paroxysmal Supraventricular Tachycardia</td>
</tr>
<tr>
<td>Dr. Shaqil Peermohamed</td>
<td>Infectious Diseases</td>
<td>Department of Medicine Research Fund</td>
<td>Implementation of Fecal Microbiota Therapy for Recurrent Clostridioides difficile Infection in Saskatoon, Saskatchewan</td>
</tr>
<tr>
<td>Dr. Erika Penz</td>
<td>Respirology Critical Care and Sleep Medicine</td>
<td>AstraZeneca Canada Inc.</td>
<td>“Real-World Evidence” study concerning the Evaluation of COPD outcomes in Canadian patients (BALLISTIC study)</td>
</tr>
<tr>
<td>Dr. Erika Penz</td>
<td>Respirology Critical Care and Sleep Medicine</td>
<td>AstraZeneca Canada Inc.</td>
<td>“Real-World Evidence” study concerning the use of SABA medication in Canada (SABINA).</td>
</tr>
<tr>
<td>Dr. Erika Penz</td>
<td>Respirology Critical Care and Sleep Medicine</td>
<td>Health Quality Council of Saskatchewan</td>
<td>Exploration of End of Life Care in Lung Cancer and COPD</td>
</tr>
<tr>
<td>PI</td>
<td>Division</td>
<td>Agency</td>
<td>Title</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------------------</td>
<td>---------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr. Erika Penz</td>
<td>Respirology Critical Care and Sleep Medicine</td>
<td>Respiratory Research Centre</td>
<td>Animal-Assisted Therapy in Advanced Chronic Obstructive Pulmonary Disease (COPD): an exploratory study</td>
</tr>
<tr>
<td>Dr. Ilia Poliakov</td>
<td>Neurology</td>
<td>F. Hoffmann-La Roche Ltd</td>
<td>CONFIDENTIALITY AGREEMENT CONCERNING THE DRUG PRODUCT OCREVUS AND THE PROTOCOLS BN42083, BN42082, GN41851 AND GN42272</td>
</tr>
<tr>
<td>Dr. Bhanu Prasad</td>
<td>Nephrology</td>
<td>College of Medicine</td>
<td>Histological burden of calcification in left internal mammary artery conduit graft in patients with stage 5 chronic kidney disease</td>
</tr>
<tr>
<td>Dr. Michael Prystajecky</td>
<td>General Internal Medicine</td>
<td>Department of Medicine</td>
<td>Impact of Geographically Collocating an Internal Medicine Inpatient Service</td>
</tr>
<tr>
<td>Dr. Michael Prystajecky</td>
<td>General Internal Medicine</td>
<td>Hamilton Health Sciences Corporation</td>
<td>PeriOperative ISchemic Evaluation-3 (POISE-3)</td>
</tr>
<tr>
<td>Dr. Jodie Reis</td>
<td>Rheumatology</td>
<td>Saskatchewan Health Authority</td>
<td>Sicca Syndrome as a Rare Clinical Feature of System AL Amyloidosis</td>
</tr>
<tr>
<td>Dr. Kerri Schellenberg</td>
<td>Neurology</td>
<td>ALS Society of Saskatchewan</td>
<td>Electrical Impedence Tomography in Measurement of Lung Recruitment in Motor Neuron Disease (MND)</td>
</tr>
<tr>
<td>Dr. Kerri Schellenberg</td>
<td>Neurology</td>
<td>Apollis Pharmaceuticals, Inc.</td>
<td>CDA: CG2921-CDN013: Confidentiality Agreement for a Phase 2 clinical study in Amyotrophic Lateral Sclerosis</td>
</tr>
<tr>
<td>Dr. Kerri Schellenberg</td>
<td>Neurology</td>
<td>ICON Clinical Research Limited</td>
<td>Confidential Disclosure Agreement with ICON for studies related to MT-1186</td>
</tr>
<tr>
<td>Dr. Kerri Schellenberg</td>
<td>Neurology</td>
<td>University of Winnipeg</td>
<td>Integrase Inhibitors as a therapeutic modality for ALS</td>
</tr>
<tr>
<td>Dr. Jay Shavadia</td>
<td>Cardiology</td>
<td>Hamilton Health Sciences Corporation</td>
<td>Confidentiality Agreement - CLEAR SYNERGY (OASIS 9): A 2x2 factorial randomized controlled trial of CoLchicine and spironolactone in patients with ST elevation myocardial infarction/SYNERGY Stent Registry - Organization to Assess Strategies for Ischemic Syndromes 9</td>
</tr>
<tr>
<td>PI</td>
<td>Division</td>
<td>Agency</td>
<td>Title</td>
</tr>
<tr>
<td>-----------------------</td>
<td>---------------</td>
<td>---------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr. Jay Shavadia</td>
<td>Cardiology</td>
<td>Minneapolis Heart Institute Foundation</td>
<td>North American COVID-19 ST-Segment Elevation Myocardial Infarction (NACMI) Registry</td>
</tr>
<tr>
<td>Dr. Jay Shavadia</td>
<td>Cardiology</td>
<td>Saint Luke’s Hospital of Kansas City</td>
<td>Non-Disclosure and Confidentiality Agreement for the “DARE-19” clinical study related to COVID-19</td>
</tr>
<tr>
<td>Dr. Ahmed Shoker</td>
<td>Nephrology</td>
<td>Vitaeris Incorporation</td>
<td>A pivotal phase 3 trial to evaluate the safety and efficacy of clazakizumab for the treatment of chronic active antibody mediated rejection in kidney transplant recipients</td>
</tr>
<tr>
<td>Dr. Ahmed Shoker</td>
<td>Nephrology</td>
<td>CSL Behring</td>
<td>ICON Study # 3940/0006, Treatment of Chronic Active ABMR in Kidney Transplant Recipients 2019/2020</td>
</tr>
<tr>
<td>Dr. Stuart Skinner</td>
<td>Infectious Diseases</td>
<td>Saskatchewan Health Research Foundation</td>
<td>A Distance Access to Prevention, Treatment and Response (ADAPT-R): An agile approach to COVID-19</td>
</tr>
<tr>
<td>Dr. Stuart Skinner</td>
<td>Infectious Diseases</td>
<td>PHIVOT Grant Viiv Peer Health Advocate Wellness Network (PHAWN)</td>
<td>Development of a peer-to-peer network support system</td>
</tr>
<tr>
<td>Dr. Stuart Skinner</td>
<td>Infectious Diseases</td>
<td>NEIHR Community Partnership Development Grant</td>
<td>Establishing a Virtual Care Clinic for COVID-19 Screening and Treatment in First Nation Communities in Saskatchewan</td>
</tr>
<tr>
<td>Dr. Stuart Skinner</td>
<td>Infectious Diseases</td>
<td>NEIHR Community Partnership Development Grant</td>
<td>Nutrition Transition: Preventing, Reversing and Curing Diabetes in Partnership with Indigenous Communities</td>
</tr>
<tr>
<td>Dr. Stuart Skinner</td>
<td>Infectious Diseases</td>
<td>SHRF Connections</td>
<td>COVID-19 Rapid Response: A Distance Access to Prevention, Treatment and Response (ADAPT-R): An agile approach to COVID-19</td>
</tr>
<tr>
<td>Dr. Stuart Skinner</td>
<td>Infectious Diseases</td>
<td>College of Medicine Deans Project</td>
<td>Asset Mapping Healthcare Services for HIV and HCV Management in First Nations Communities</td>
</tr>
<tr>
<td>Dr. Stuart Skinner</td>
<td>Infectious Diseases</td>
<td>Network Environments for Indigenous Health Research (NEIHR) The</td>
<td></td>
</tr>
<tr>
<td>PI</td>
<td>Division</td>
<td>Agency</td>
<td>Title</td>
</tr>
<tr>
<td>--------------------------</td>
<td>------------------------------</td>
<td>------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr. Stuart Skinner</td>
<td>Infectious Diseases</td>
<td>Merck Peer Health Advocate Wellness Network (PHAWN)</td>
<td>Implementing a Rural Peer Network to Improve Education, Linkage and Treatment of HIV and HCV in Saskatchewan</td>
</tr>
<tr>
<td>Dr. Stuart Skinner (Co-PI)</td>
<td>Infectious Diseases</td>
<td>Gilead Investigator Initiated Grant Program</td>
<td>Evaluation of Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Alafenamide(ECF/TAF) Switch followed by Sofosbuvir/Velpatasvir (SOF/VEL) Antiviral HCV Therapy followed by Bictegravir/Emtricitabine/Tenofovir Alafenamide (B/F/TAF) Simplification in HIV</td>
</tr>
<tr>
<td>Dr. Stuart Skinner</td>
<td>Infectious Diseases</td>
<td>University of Saskatchewan Biomedical Research Project</td>
<td>Care Cascade in Community</td>
</tr>
<tr>
<td>Dr. Rod Stryker</td>
<td>Nephrology</td>
<td>RUH Foundation</td>
<td>Microbiological analysis of tunnelled hemodialysis catheters isolated from patients receiving hemodialysis in the SHA</td>
</tr>
<tr>
<td>Dr. Eric Sy</td>
<td>General Internal Medicine</td>
<td>College of Medicine</td>
<td>Evaluation of outcomes and safety of patients discharged directly to home from the ICU</td>
</tr>
<tr>
<td>Dr. Julian Tam</td>
<td>Respirology Critical Care and Sleep Medicine</td>
<td>Department of Medicine</td>
<td>Saskatoon Adult Cystic Fibrosis Clinic Equipment</td>
</tr>
<tr>
<td>Dr. Jose Tellez-Zenteno</td>
<td>Neurology</td>
<td>Centre Hospitalier de L'universite de Montreal</td>
<td>The EDGAR study (Elderly with epilepsy Drug Appropriateness)</td>
</tr>
<tr>
<td>Dr. Jose Tellez-Zenteno</td>
<td>Neurology</td>
<td>College of Medicine</td>
<td>An evaluation of stigma in patients with epilepsy in a Canadian Center</td>
</tr>
<tr>
<td>Dr. Jose Tellez-Zenteno</td>
<td>Neurology</td>
<td>Department of Medicine</td>
<td>Ambulatory EEG as Diagnostic tool for Seizure Recurrence in Patients with Single Unprovoked Seizure: The CX-Seizure Study</td>
</tr>
<tr>
<td>PI</td>
<td>Division</td>
<td>Agency</td>
<td>Title</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------</td>
<td>---------------------------------------</td>
<td>-------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr. Jose Tellez-Zenteno</td>
<td>Neurology</td>
<td>Department of Medicine</td>
<td>Validation of a Mobile-electroencephalogram Technology for the Diagnosis of Epilepsy at RUH</td>
</tr>
<tr>
<td>Dr. Chung-Chun Tyan</td>
<td>Respirology Critical Care and Sleep Medicine</td>
<td>Department of Medicine</td>
<td>Improving access to advanced bronchoscopy procedure at RUH</td>
</tr>
<tr>
<td>Dr. Chung-Chun Tyan</td>
<td>Respirology Critical Care and Sleep Medicine</td>
<td>Respiratory Research Centre</td>
<td>Development and testing of a novel transbronchial lung parenchymal biopsy tool</td>
</tr>
<tr>
<td>Dr. Sabira Valiani</td>
<td>General Internal Medicine</td>
<td>College of Medicine</td>
<td>Intensive End of Life Care: Implementation of a guideline-based order set for the withdrawal of life-sustaining therapy in the ICU</td>
</tr>
<tr>
<td>Dr. Alexander Wong (Co-PI)</td>
<td>Infectious Diseases</td>
<td>Gilead Investigator Initiated Grant Program</td>
<td>Evaluation of Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Alafenamide(ECF/TAF) Switch followed by Sofosbuvir/Velpatasvir (SOF/VEL) Antiviral HCV Therapy followed by Bictegravir/Emtricitabine/Tenofovir Alafenamide (B/F/TAF) Simplification in HIV</td>
</tr>
</tbody>
</table>
DEPARTMENT of MEDICINE
PUBLICATIONS
SECTION VIII
Each publication is included only once and is in order based on the last name of the first listed Department of Medicine author.

The names of Department of Medicine faculty (or Professional Research Associate) are bolded.


Chelico L, King A, Ticknor J, McDonald M, Rosenes R, Mereredi J, Saddleback J, Bailey G, King M. Perspectives of Saskatchewan researchers and community members on HIV-1 strains circulating in Saskatchewan. AIDS. 2020 Mar 3; [Online ahead of print]


Wirth I, Penz E, Marciniuk DD. Examination of COPD Management in Patients Hospitalized with an Acute Exacerbation of COPD. Can J Resp Crit Care Med. Published online 21 Feb 2020.


