

Saskatchewan  
**Health Authority**

RESEARCH REPORT  
COLLEGE OF MEDICINE – REGINA CAMPUS  
JANUARY – DECEMBER 2020

Research Department  
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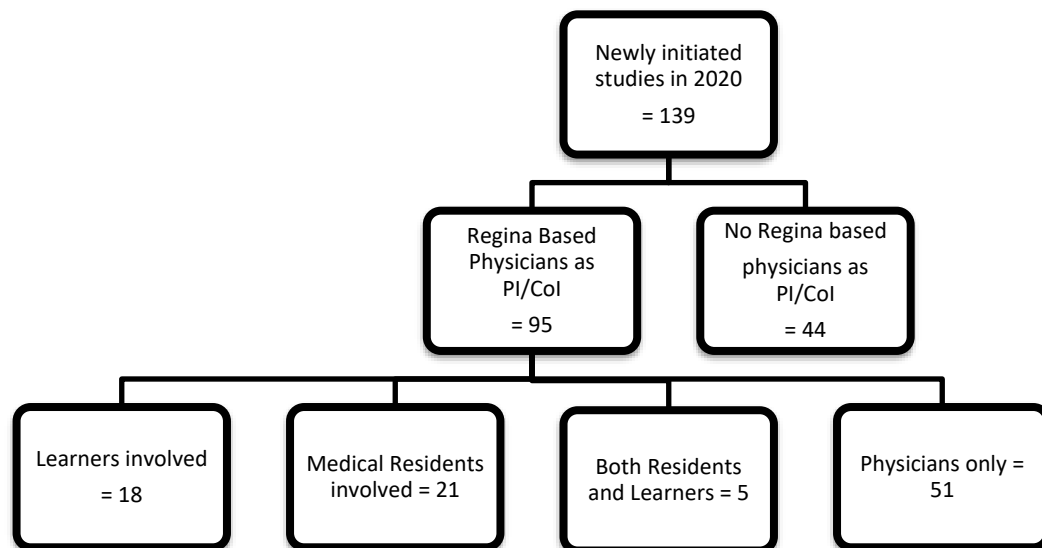
## 1. Introduction

This report is prepared for the College of Medicine (Regina Campus), University of Saskatchewan and provides an overview of studies that were conducted in Regina, between January and December 2020. It provides a description of the types of studies initiated in 2020, research funding obtained through scholarly activity, and a summary of the posters, presentations, and publications resulting from research being supported on the Regina Campus.

## 2. Studies Initiated in 2020

In 2020, 139 studies were submitted for Research Ethics Board (REB) approval. Of these newly initiated studies, 95 (68%) involved a Regina based physician as a Principal Investigator (PI) or Co- Investigator (Co-I), 17% (n=23) involved a medical student, and 19% (n=26) involved a Resident. **Figure 1** illustrates the number of studies in different categories that were initiated in 2020.

**Figure 1: Number of Studies Initiated in 2020**



A number of medical specialties are represented in the studies shown in **Figure 1**. An overview of these studies categorized by specialty is provided below (**Table 1**). The numbers of studies that involve residents represent all projects that they are involved in, including those that meet their curricular requirements.

**Table 1: Studies Initiated in 2020 per Specialty (Regina based physician as PI or CoI only)**

<i>Specialty</i>	<i>Total Number of Studies</i>	<i>Number of Studies Involving Learners</i>	<i>Number of Studies Involving Residents</i>
<i>Cardiology</i>	17	3	4
<i>Internal Medicine</i>	13	5	4
<i>Family Medicine</i>	12	1	6
<i>Infectious Disease</i>	10	1	1
<i>Obstetrics &amp; Gynecology</i>	9	3	5
<i>Pediatrics</i>	9	3	1
<i>Emergency Medicine</i>	6	3	2
<i>Psychiatry</i>	5	1	3
<i>Orthopedics</i>	4	1	0
<i>Pathology and Laboratory Medicine</i>	4	0	0
<i>Vascular Surgery</i>	2	1	0
<i>Dermatology</i>	1	0	0
<i>Oncology</i>	1	1	0
<i>Nephrology</i>	1	0	0
<i>Community Health and Epidemiology</i>	1	0	0
<b>Total</b>	<b>95</b>	<b>23</b>	<b>26</b>

3.

## Graduates of the Clinician Research Support Program

The Clinician Research Support Program (CRSP) is an exciting partnership between the Saskatchewan Health Authority (SHA) and College of Medicine - Regina Campus. It aims to assist promising new, Regina-based clinician researchers in achieving early successes that will strengthen their future funding applications to provincial, national, and international funding opportunities.

Congratulations to the most recent graduates of this program.

Dr. Megan Clark is a Regina family physician and a recipient of the 2019-2021 Clinician Research Support Program (CRSP). Her research supported by the CRSP focuses on improving health care services for trans and gender diverse people in Saskatchewan and is a community-led research project in partnership with SK's trans community.



Dr. Clark, as co-Principal Investigator with Dr. Stéphanie Madill from the School of Rehabilitation Science, secured a Saskatchewan Health Research Foundation-SK Centre for Patient-Oriented Research Sprout grant valued at \$179,741.

*"This grant is funding a foundational research project in Saskatchewan's trans and gender diverse community and will pilot a new peer health navigator program."*

*"The fundamental thing for me is to improve health-care service delivery for gender and diverse people in Saskatchewan. This project will be a great opportunity for our healthcare system and even Saskatchewan's general public to learn about our trans community, its needs and its strengths."*



Dr. Darrien Rattray is the Obs/Gyne Residency Program Director with the University of Saskatchewan for the Regina site and the Simulation Co-Director for the program. He has a research interest in fibroids, endometriosis, ambulatory gynecology, chronic pelvic pain, and surgical simulation.

As part of the CRSP, he secured \$14,970 in funding from a ComRAD grant and presented four abstracts.

*"The Clinician Research Support Program was a game changer for me. The support through this program allowed me to develop a successfully funded double-blind, placebo-controlled, randomized trial assessing a less painful way to provide an outpatient endometrial ablation for women," explains Dr. Rattray. "It provided me the extra bit of time necessary to apply for grants that I normally wouldn't have been able to access. It has been a privilege to be part of the CRSP, and I'm eternally grateful."*

Dr. Eric Sy is a Critical Care Medicine and Internal Medicine physician practicing in Regina, Saskatchewan at the Regina General Hospital and Pasqua Hospital since 2015. Dr. Sy is a 2019-2021 recipient of the CRSP. The research supported by CRSP focuses on several areas including: the study of direct discharges home from the intensive care unit, the safe transition of patients out of the intensive care unit, and the epidemiology of critically ill patients in the intensive care unit.



*"These projects are important as ICU admissions are rising across Canada. ICU patients represent the sickest patients admitted to the hospital and typically will have long, costly hospitalizations. The study of improvement processes to safely transition these patients out of the ICU may have meaningful impacts to the health care system."*

Dr. Sy secured \$231,600 in funding and authored 12 publications.

*"The CRSP has helped me tremendously in getting my research organized and started, allowing me to be competitive for Provincial Granting Agencies, such as the Saskatchewan Health Research Foundation," says Dr. Sy. "We recently have been able to secure Impact Grant funding from SHRF to study virtual care follow-up of critically ill patients."*



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#### 4. Research Funding Applications

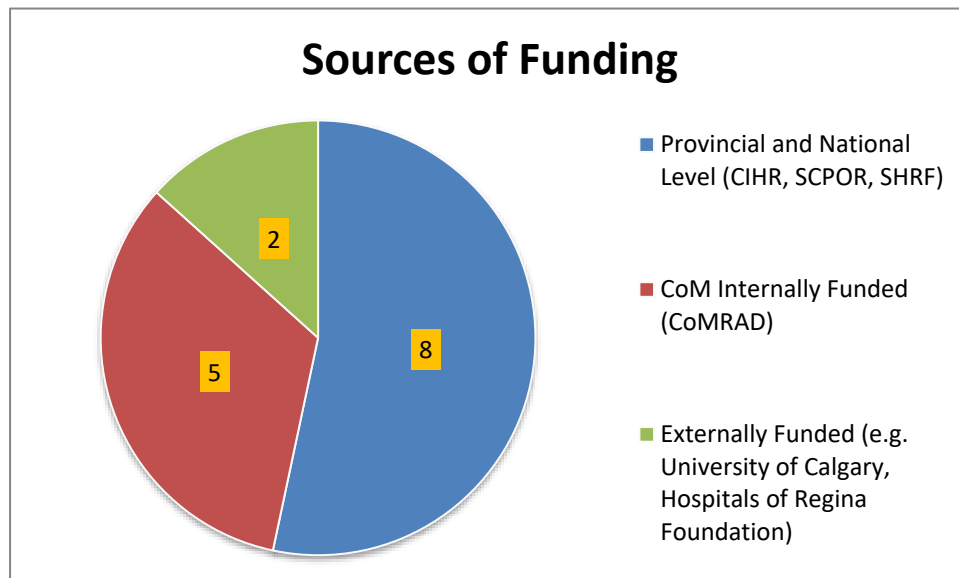
In 2020, 21 funding applications from the College of Medicine (Regina Campus) were submitted to different funding agencies; among which 15 were approved and awarded for a total of \$1,545,693. One application result is still pending. **Table 2** provides a list of the funding applications submitted in 2020. **Figure 2** provides a summary of the funding sources.

Table 2: 2020 Research Funding

<i>Name of PI or Co-I</i>	<i>Funding agency</i>	<i>Description</i>	<i>Project Title</i>	<i>Amount received/ requested</i>	<i>Status</i>
<i>Dr. Rattray</i>	USask	CoMRAD	The use of fundal block during NovaSure endometrial ablation to reduce intraoperative pain: A randomized controlled feasibility study	\$14,970	Approved
<i>Dr. Sy</i>	USask	CoMRAD	Evaluation of patient perspectives and outcomes for patients discharged directly to home (DDH) from the ICU	\$ 23,900	Approved
<i>Dr. Sy</i>	SHRF	Development Grant	Randomized, Embedded, Multifactorial Adaptive Platform trial for Community-Acquired Pneumonia (REMAP-CAP)	\$12,500	Approved
<i>Dr. Sy</i>	University of Calgary	Tic Seed Grant	Patient & family perspectives on the quality and safety of direct discharges home and transfers out of the intensive care unit	\$10,000	Approved
<i>Dr. Sy, Dr. Lee, Dr. Betcher</i>	SHRF	Impact Grant	Saskatchewan Virtual Follow-up Clinic of Patients Directly Discharged Home from ICU (Vi-DISH)	\$150,000	Approved
<i>Dr. Asiniwasis</i>	USask	CoMRAD	Virtual Dermatology Clinics in Remote and Northern Saskatchewan Indigenous	\$27,620	Approved
<i>Dr. Lee, Dr. Skinner, Dr. Karunakaran, Dr. Kamrul, Dr. Michaels, Dr. Vasquez, Dr. Maroof</i>	SHRF	COVID-19 Rapid Response funding	Staying Connected with Social Media During Social Distancing	\$7,523	Approved
<i>Dr. Skinner, Dr. Lee, Dr. Lavoie, Dr. Richardson, Dr. Clark</i>	SHRF	Research Connections COVID-19 Rapid Response	A distance access to prevention, treatment and response (ADAPT-R): An agile approach to COVID-19	\$9,050	Approved

<i>Dr. Clark</i>	SHRF & SCPOR	Sprout Grant	TRANS: Trans Research and Navigation Saskatchewan - Evaluating the Impact of Peer Navigators on the Health of People who are Trans and Gender Diverse	\$179,741	Approved
<i>Dr. Dehghani</i>	SHRF	2020-2021 Partnership Grant	North American COVID-19 ST-Segment Elevation Myocardial Infraction (NACMI) Registry	\$49,389	Approved
<i>Dr. Prasad, Dr. Goyal, Dr. Korkola</i>	USask	CoMRAD	Histological burden of calcification in left internal mammary artery conduit graft in patients with stage 5 chronic kidney disease	\$20,314	Approved
<i>Dr. Prasad (Co-Applicant)</i>	CIHR	COVID-19 May 2020 Rapid Research Funding Call	Development of SARS-CoV-2 Peptide Therapeutics and Point-of-Care Salivary Diagnostics for Rapid Viral Detection	\$937,950	Approved
<i>Dr. Prasad, Dr. Goyal</i>	SHRF	Collaborative Innovation Development (CID Program)	Feasibility study of a randomized controlled trial investigating renal denervation as a possible treatment option in patients with Loin Pain Hematuria Syndrome	\$ 49,486	Approved
<i>Dr. Goyal, Dr. Prasad</i>	USask	CoMRAD	Feasibility study of a randomized controlled trial investigating renal denervation as a possible treatment option in patients with Loin Pain Hematuria Syndrome	\$28,250	Approved
<i>Dr. Prasad</i>	HRF	Hospitals of Regina Foundation	Unraveling cellular and molecular mechanism of LPHS to understand underlying pathophysiology in search for prognostic markers and therapeutic targets	\$25,000	Approved
<i>Dr. Kopriva, Dr. Richardson, Dr. Skinner, Dr. Lee, Dr. Clark, Dr. Geller</i>	CIHR	Team Grant: Diabetes Mechanisms and Translational Solutions	Developing a culturally-responsive, translational peer-led diabetes care model with First Nations partner communities and the urban Regina hub	\$10,000	Pending

**Figure 2: Sources of successful funding in the year 2020**





## 5. Posters, Presentations and Manuscripts

Sixteen posters were presented and 15 oral presentations were given at different local, national, and international conferences during the reporting period. Twenty-four posters were presented by students at the 2020 SHA Research Showcase. Furthermore, 43 manuscripts were published in 2020. Despite our best efforts in compiling this list, it is possible that it is not inclusive of all posters, presentations and manuscripts from Regina Campus clinician researchers.

### Posters:

1. Topping, M., Karreman, E., & Lett, C. September, 2020. Identifying the rate of preoperative and postoperative anemia in patients undergoing planned cesarean section at a tertiary care centre. Society for the Advancement of Blood Management, Virtual annual meeting.
2. Woo, L., Karreman, E., & Kamencic, H. September, 2020. Vaginal Cuff Dehiscence after Hysterectomy: A Case Series. Canadian Society for the Advancement of Gynecologic Excellence, Virtual annual meeting.
3. Skinner, S., Pandey, M., Smith, L., Sasakamoose, J., Klein, D., & Campbell, T. 2020. Cultural Orientation of HIV Care to Reduce Related Stigma and Enhance Screening, Diagnosis, and Linkage to Care. CoMRAD Symposium, University of Saskatchewan.
4. Pandey, M., Nicolay, S., Desjarlais, Konrad, S., Derjarlias, J., Campbell, T., & Skinner, S. May, 2020. "Advancing Health Equity in First Nations Communities: Bridging the Gap through Relationships." CAHSPR.
5. Pandey, M., Lee, S., Skinner, S., Maroof, R., Kamrul, R., Michaels, C., Vasquez, A Karunakaran, K., Moura, L., Shi. Y, Maina, G., Sachdev, N., Newaz, S., & McCarron, M. 2020. Staying Connected with Social Media During Social Distancing. Poster presented at 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK.
6. Maroof R, Kamrul R, Rocha Michaels C, Vasquez Camargo A, Pandey M. Barriers in Accessing Mental Health Services for Refugees. Poster presented at the Virtual Family Medicine Forum 2020, College of Family Physicians of Canada, November 4, Virtual from Mississauga, ON, Abstract – 471.
7. Asiniwasis, R., Eglington, T., Odeshi, O., Richels, L., Hinthier, K., Phillips, Z., & Pandey, M. 2020. Saskatchewan Rural Communities and Skin Diseases: A Health Practitioner Survey on Dermatologic Conditions seen in Saskatchewan's Remote Indigenous Communities. Poster presented at 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK.
8. Ong-Tone, L., & Bell, A. 2020. Practice Patterns of Canadian Ophthalmological Society members in Cataract Surgery-Survey 2019. Poster presented at 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK.
9. Prasad, B., Jafari, M., Tangri, N., Jin, S., Osman, M., Kappel J. June, 2020. Do All Patients Benefit from Multidisciplinary Chronic Kidney Disease Clinics? Congress of European Renal Association European Dialysis and Transplant Association. Milan, Italy.
10. Prasad, B., Jafari, M., Tangri, N., Jin, S., Osman, M., Kappel J. May, 2020. Do All Patients Benefit from Multidisciplinary Chronic Kidney Disease Clinics? Canadian Society of Nephrology, Annual General Meeting. Halifax, Canada.
11. Prasad, B., Jafari, M., Gross, L., Toppings, J., Kappel J. June, 2020. Economic Benefits of Switching from Intravenous to Subcutaneous Erythropoiesis-Stimulating Agents Therapy for Management of Anaemia in Hemodialysis Patients. Congress of European Renal Association European Dialysis and Transplant Association. Milan, Italy.
12. Prasad, B., Jafari, M., Gross, L., Toppings, J., Kappel J. May, 2020. Economic Benefits of Switching from Intravenous to Subcutaneous Erythropoiesis-Stimulating Agents Therapy for Management of Anaemia in Hemodialysis Patients. Canadian Society of Nephrology, Annual General Meeting. Halifax, Canada.

13. Jafari, M., Kour, K., Prasad, B. June, 2020. The Burden of Frailty On Mood, Cognition, Quality of Life And Level Of Independence In Patients On Hemodialysis. Congress of European Renal Association European Dialysis and Transplant Association. Milan, Italy
14. Jafari, M., Kour, K., Prasad, B. June, 2020. The Burden of Frailty On Mood, Cognition, Quality of Life And Level Of Independence In Patients On Hemodialysis. Canadian Society of Nephrology, Annual General Meeting. Halifax, Canada.
15. Diebel L., Shah S., Jafari, M., Prasad, B. May, 2020. Barriers To Home Hemodialysis In Saskatchewan. Canadian Society of Nephrology, Annual General Meeting. Halifax, Canada.
16. Diebel L., Prasad, B., Jafari, M., Shah S. May, 2020. Barriers To Peritoneal Dialysis In Saskatchewan Canada: Results From A Province Wide Survey. Canadian Society of Nephrology, Annual General Meeting. Halifax, Canada.

### Oral Presentations:

1. Aftab, N., Maroof, R., Kamrul, R., Pandey, M., McCarron, M., & Clay, A. 2020. Mental health literacy in Canadian, immigrant and refugee young adults: A comparison. Paper presented at the 30<sup>th</sup> annual Department of Academic Family Medicine Resident Research Day, University of Saskatchewan, Saskatoon, SK.
2. Ciutiis, J., Wunder, S., Siddiqui, M., & Kraushaar, J. June, 2020. An evaluation of Physical Medicine & Rehabilitation skills days: A survey of medical students. Second Place Honourable Mention Education Abstract in 70<sup>th</sup> Annual Scientific Meeting of Canadian Association of Physical Medicine & Rehabilitation.
3. Beurivage, C., Mahood, S., & McCarron, M. 2020. Abortion training in residency: A comparison of two urban family medicine sites in Saskatchewan. Paper presented at the 30<sup>th</sup> annual Department of Academic Family Medicine Resident Research Day, University of Saskatchewan, Saskatoon, SK.
4. Bortolotti, E., Howe, C., King, J., Haver, R., McCarron, M., & Clay, A. 2020. Screening practices related to sexually transmitted infections undertaken by family physicians in Moose Jaw, Saskatchewan. Paper presented at the 30<sup>th</sup> annual Department of Academic Family Medicine Resident Research Day, University of Saskatchewan, Saskatoon, SK.
5. Christopherson, L., McLaren, K., Schramm, L., Holinaty, C., Ruddy, G., Boughner, E., Clay, A., McCarron, M., & Clark, M. 2020. Assessment of knowledge, attitudes, and skills working with transgender clients of Saskatchewan family physicians, family medicine residents and nurse practitioners. Paper presented at the 30<sup>th</sup> annual Department of Academic Family Medicine Resident Research Day, University of Saskatchewan, Saskatoon, SK.
6. Gable, H., Vasquez, A., McCarron, M., & Clay, A. 2020. Sterile vs. non-sterile gloves in primary care practice. Paper presented at the 30<sup>th</sup> annual Department of Academic Family Medicine Resident Research Day, University of Saskatchewan, Saskatoon, SK.
7. Singh, S., Clark, M., Clay, A., & McCarron, M. 2020. Examining patients' attitudes and perspectives towards medicinal and recreational cannabis use. Paper presented at the 30<sup>th</sup> annual Department of Academic Family Medicine Resident Research Day, University of Saskatchewan, Saskatoon, SK.
8. Skinner, S., Liskowich, S., & McCarron, M. 2020. Interpretation and management of genetic test results by Canadian family physicians: A multiple choice survey of performance. Paper presented at the 30<sup>th</sup> annual Department of Academic Family Medicine Resident Research Day, University of Saskatchewan, Saskatoon, SK.
9. Skinner, S., Sasakamoose1, J., Campbell, T., Wahpoosewyan, D., Nicolay, S., Konrad, S., Pandey, M., Riehl, G, Brace, G., Albert, J, Reed, N., Bryant, D., Desjarlais, J., Stonechild, S. November, 2020. Peer Health Advocacy Wellness Network (PHAWN): Establishing a network of

peers within rural Indigenous communities and a Regina Hub in Saskatchewan. [Oral Presentation, at Research Showcase].

10. Skinner, S., Sasakamoose1, J., Campbell, T., Wahpoosewyan, D., Nicolay, S., Konrad, S., Pandey, M., Riehl, G., Brace, G., Albert, J, Reed, N., Bryant, D., Desjarlais, J., Stonechild, S. May 2020. "Peer Health Advocacy Wellness Network (PHAWN): Commencing a Network of Peers within First Nations Communities in Saskatchewan." [Oral Presentation, at CAHR].
11. McEwen, A., Yunus, M., Clark, M., Pandey, M., Nicolay, S., Skinner, S., Kay, C., Pratt, M., Bigsky, S., Desjarlais, V. November, 2020. Primary Care access on Select First Nations. Family medicine Forum. Virtual from Mississauga, ON.
12. Vasquez-Camargo A. Doctor, vaping is better than cigarettes, Right? September 18, 2020. Presented at the 66th Family Medicine Conference sponsored by the Saskatchewan College of Family Physicians, virtually from Saskatoon, SK.
13. Nilson S, Schuster B. Tips and tools for deprescribing in a busy practice. September 18, 2020. Presented at the 66th Family Medicine Conference sponsored by the Saskatchewan College of Family Physicians, virtually from Saskatoon, SK.
14. Prasad, B., Jafari, M., Diebel L., Shah S. June, 2020. Barriers To Home Hemodialysis In Saskatchewan Canada: Results From A Province Wide Survey. Congress of European Renal Association European Dialysis and Transplant Association. Milan, Italy.
15. Prasad, B., Diebel L., Jafari, M., Shah S. June, 2020. Barriers To Peritoneal Dialysis In Saskatchewan Canada: Results From A Province Wide Survey. Congress of European Renal Association European Dialysis and Transplant Association. Milan, Italy.

#### Publications:

1. Giroux, M., Jabs, C., McLellan, S., Beck, L. P., Scollan, A., Nelson, N., Karreman, E., Howe, C., & Henni, J. 2020. Effectiveness of pessary and pelvic floor physiotherapy alone and in combination for management of stress and mixed urinary incontinence: a literature review. *Gynecology and Pelvic Medicine*, <http://dx.doi.org/10.21037/gpm.2020.02.02>
2. Ho, K., Patel, R., & Dehghani, P. 2020. Deployment of a covered stent for left internal mammary perforation from percutaneous pacemaker implantation. *Canadian Journal of Cardiology (CJC) Open*. 14;2(6):708-710. doi: 10.1016/j.cjco.2020.06.018
3. Ho, K., Kopriva, D., & Dehghani, P. 2020. A Case of an Aortic Dissection after Mechanical Chest Compression by LUCAS. *JACC: Case Reports*, 2(12): 1984-1987
4. Kawakami, R., Katsuki, S., Travers, R., Romero, D.C., Becker-Greene, D., Passos, L.S.A., Higashi, H., Blaser, M.C., Sukhova, G.K., Buttigieg, J., Kopriva, D., Schmidt, A.M., Anderson, D.G., Singh, S.A., Cardoso, L., Weinbaum, S., Libby P., Aikawa, M., Croce, K., & Aikawa, E. 2020. S100A9-RAGE Axis Accelerates Formation of Macrophage-Mediated Extracellular Vesicle Microcalcification in Diabetes Mellitus. *Arterioscler Thromb Vasc Biol*, 40(8):1838-1853. doi: 10.1161/ATVBAHA.118.314087.
5. Birnie, D.H., Wang, J., Alings, M., Philippon, F., Parkash, R., Manlucu, J., Angaran, P., Rinne, C., Coutu, B., Low, R.A., Essebag, V., Morillo, C., Redfearn, D., Toal, S., Becker, G., Degrâce, M., Thibault, B., Crystal, E., Tung, S., LeMaitre, J, Sultan, O., Bennett, M., Bashir, J., Ayala-Paredes, F., Gervais, P., Rioux, L., Hemels, M.E.W., Bouwels, L.H.R., Exner, D.V., Dorian, P., Connolly, S.J., Longtin, Y., & Krahn, A.D. 2020. Risk Factors for Infections Involving Cardiac Implanted Electronic Devices. *J Am Coll Cardiol*. 11;76(6):762.
6. Ghisi, GLd.M., Xu, Z., Liu, X., Mola, A., Gallagher, R., Babu, A.S., Yeung, C., Marzolini, S., Buckley, J., Oh, P., Contractor, A., & Grace, S.L. 2020. Impacts of the COVID-19 Pandemic on Cardiac Rehabilitation Delivery around the World. *medRxiv*; DOI: 10.1101/2020.11.11.20230045

7. Keir, M., Penner, M., Dehghani, P., Neudorf, C., Lim, H. J., Bradley, T. J., Bree, T., & Kakadekar, A. 2020. Barriers to Care in ACHD: A Study of Young Adults in Saskatchewan. *Canadian Journal of Cardiology (CJC) Open*. 29;2(6):439-446. doi: 10.1016/j.cjco.2020.05.008
8. Chetty, K., Lavoie, A., & Dehghani, P. 2020. A Literature Review of Cannabis and Myocardial Infarction-What Clinicians May Not Be Aware Of. *CJC Open*. 3;3(1):12-21. doi: 10.1016/j.cjco.2020.09.001
9. Dehghani, P., Davidson, L.J., Grines, C.L., Nayak, K, Saw, J., Kaul, P., Bagai, A, Garberich, R., Schmidt, C., Ly, H.Q., Giri, J., Meraj, P., Shah, B., Garcia, S., Sharkey, S., Wood, D.A., Welt, F.G., Mahmud, E., & Henry, T. D. 2020. North American COVID-19 ST-Segment-Elevation Myocardial Infarction (NACMI) registry: Rationale, design, and implications. *Am Heart J*, 227:11-18. doi: 10.1016/j.ahj.2020.05.006
10. Dehghani, P., Singer, Z., Morrison, J., Booker, J., Lavoie, A., Zimmermann, R., Basran, P., Webb, J.G., Cheema, A.N., Pibarot, P., & Clavel, M.A. 2020. Characteristics and usefulness of unintended premature ventricular contraction during invasive assessment of aortic stenosis. *Int J Cardiol*. 15;313:35-38. doi: 10.1016/j.ijcard.2020.02.053.
11. Wood, D.A., Sathanathan, J., Gin, K., Mansour, S., Ly, H.Q., Quraishi, A.U., Lavoie, A., Lutchmedial, S., Nosair, M., Bagai, A., Baine, K.R., Boone, R.H., Liu, S., Krahn, A., Virani, S., Mehta, S.R., Natarajan, M.K., Velianou, J.L., Dehghani, P., Wijeyesundera, H.C., Asgar, A.W., Virani, A., Welsh, R.C., Webb, J.G., & Cohen, E.A. 2020. Precautions and Procedures for Coronary and Structural Cardiac Interventions during the COVID-19 Pandemic: Guidance from Canadian Association of Interventional Cardiology. *Can J Cardiol*. 36(5):780-783. doi: 10.1016/j.cjca.2020.03.027
12. Lavoie, A.J. 2020. Iron deficiency in heart failure: getting to the guidelines. *Curr Opin Cardiol*. 35(2):133-137. doi: 10.1097/HCO.0000000000000714.
13. Bui, K.A., Matteau, A., Elbarouni, B., Baine, K.R., Fordyce, C.B., Bagai, A., Rose, B., Lutchmedial, S, Leis, B., Lavoie, A., Cox, J., Mansour, S., & Potter, B.J. 2020. Management of Acute Coronary Syndromes Beyond the First Year: A Canadian Clinical Practice Survey. *CJC Open*. 13;2(6):619-624. doi: 10.1016/j.cjco.2020.08.002
14. Harenberg, S., St Onge, J.R., Robinson, J., Eguakun, O., Lavoie, A., Dorsch, K., Kakar, R.S., & Dehghani, P. 2020. Assessing Postoperative Cognitive Dysfunction Using 3D Multiple Object Tracking in Open Heart Surgery Patients. *Technology and Disability*,32(2): 123 – 128.
15. Szerlip, M., Anwaruddin, S., Aronow, H.D., Cohen, M.G., Daniels, M.J., Dehghani, P., Drachman, D.E., Elmariah, S., Feldman, D.N., Garcia, S., Giri, J., Kaul, P., Kapur, N.K., Kumbhani, D.J., Meraj, P.M., Morray, B., Nayak, K.R., Parikh, S.A., Sakhuja, R., Schussler, J.M., Seto, A., Shah, B., Swaminathan, R.V., Zidar, D.A., & Naidu S.S. 2020. Considerations for cardiac catheterization laboratory procedures during the COVID-19 pandemic perspectives from the Society for Cardiovascular Angiography and Interventions Emerging Leader Mentorship (SCAI ELM) Members and Graduates. *Catheter Cardiovasc Interv*, 1;96(3):586-597. doi: 10.1002/ccd.28887.
16. Woo, L., Shirley, J., Wellman, E., Karreman, E., & Jabs, C. 2020. Effects of an Early Pregnancy Assessment Clinic (EPAC) on the Management of Spontaneous Abortions. *Journal of Obstetrics and Gynaecology Canada*, 42(9), 1086-1092.
17. Smith, S. N., Thorp, L., Karreman, E., & Adanlawo, A. 2020. Review of Stillbirth in a Canadian Tertiary Care Centre. *Journal of Obstetrics and Gynaecology Canada*, 42(2), 126-130
18. Giroux, M., Funk, S., Karreman, E., Kamencic, H., & Bhargava, R. 2020. A randomized comparison of training programs using a pelvic model designed to enhance pelvic floor examination in patients presenting with chronic pelvic pain. *International Urogynecology Journal*, <https://doi.org/10.1007/s00192-020-04487-y>
19. St.Onge, J. S., Karreman, E., McCarron, M., Harasen, L., & Ames, C. 2020. P076: Assessment of a newly integrated and standardized approach for pediatric concussions aimed to improve the concussion recovery process. *Canadian Journal of Emergency Medicine*, 22(S1), S91-S92

20. Laube, M., Kleisinger, A., & Siddiqui, M. 2020. Injury Rates in Amateur Cheerleaders in Saskatchewan. CASEM Poster Presentations, *Clinical Journal of Sport Medicine*, 30 (3): e88-e110 doi: 10.1097/JSM.0000000000000844
21. Mah, A., Thiel, P., Siddiqui, M., & Lett, C. 2020. Changing transfusion practice in obstetrics and gynecology: The effect of hospital-wide education, *Journal of Obstetrics and Gynaecology Canada*, 42(6); 681-681 <https://doi.org/10.1016/j.jogc.2020.02.062>
22. Sin, P., Siddiqui, M., Wozniak, R., Minion, J., Sanche, S., Udell, J., Lavoie, A., & Dehghani, P. Heart Failure after Laboratory-Confirmed Influenza Infection (FLU-HF). *Journal of the American College of Cardiology*, 75 (11, Supplement 1); 827 [https://doi.org/10.1016/S0735-1097\(20\)31454-6](https://doi.org/10.1016/S0735-1097(20)31454-6)
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#### **Student Posters (Presented at the 2020 SHA Research Showcase):**

1. Parvez, S., Donnelly, R., Mailman, J., Kassir, S., Lau, V., & Sy, E. 2020. National Healthcare Provider Survey of Patients that are Discharged Directly from the ICU and Sent Home (PROVIDER-DISH). Poster presented at the 2020 Research Showcase and College of Medicine Undergraduate Research Day
2. Donnelly, R., Parvez, S., Gill, J., Kassir, S., Mailman, J., Lau, V., & Sy, E. 2020. Direct from ICU Sent Home (DISH) – Evaluation of Safety Outcomes of Direct Discharge Home Patients from Intensive Care Units: an updated systematic review and meta-analysis. Poster presented at the 2020 Research Showcase and College of Medicine Undergraduate Research Day
3. Karunatilake, M., Kassir, S., & Le, B. 2020. MRI Shoulder at 3T versus MRI Shoulder Arthrography for Detecting Labral and Rotator Cuff Tears. Poster presented at the 2020 Research Showcase and College of Medicine Undergraduate Research Day
4. Wong, A., & Le, B. 2020. Incidence of Infection Following Prostate Biopsy. Poster presented at the 2020 Research Showcase and College of Medicine Undergraduate Research Day.

5. Khan, A., Kassir, S., Othman, I., & Souied, O. 2020. Literature Review: Hematologic Toxicities with Immunotherapy in Cancer Patients. Poster presented at the 2020 Research Showcase and College of Medicine Undergraduate Research Day
6. Pham, A., Newaz, S., & Petryk, P. 2020. Post Diagnostic Management of Autism Spectrum Disorders (ASD): Utility of the Canadian Pediatric Society Checklist for Physicians and Clinicians. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
7. Durr, M., Mela, M., Petryk, S., & Newaz, S. 2020. Utilization of Psychotropic Medications in Children with FASD: a retrospective review. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
8. Kate, K., & Petryk, S. 2020. Free distribution and use of menstrual cups in an effort to decrease school absence. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
9. Lett, K., Karreman, E., & Wildenboer, W. 2020. Psychosocial Interventions in Conjunction with Opioid Agonist Therapy: A Systematic Review. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
10. Spilchen, D.T., Skinner, S., Pandey, M., & Spence, C. 2020. In Search of Effective HIV Care Delivery Models for Rural Populations. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
11. Singh, J., & Liu, D. 2020. Evaluation of Deep Learning-based Needle Detection in High-dose-rate prostate brachytherapy. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
12. Wasim, A., & Lee, J. 2020. Hormone replacement therapy use in young cervical cancer patients in Southern Saskatchewan. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
13. Moustapha, A., & Martin, L. 2020. Can ED Chest Pain Patients with Intermediate HEART Scores be managed as Outpatients? A Retrospective Review of Two Rapid Access Chest Pain Clinics. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
14. Islam, E., & Damodharan, S. 2020. Evaluation of Brief 'Caring Telephone Contact' Suicide Prevention Program of Suicidal Children & Adolescents post-discharge from Emergency Department and/or Adolescent Psychiatric Unit, Regina. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
15. Thatcher, M., & Reed, J. 2020. The Accuracy of Landmark Based Placement of Suprascapular + Axillary Nerve Blocks. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
16. Thatcher, M., & Reed, J. 2020. Does Tranexamic Acid Improve Visualization During Arthroscopic Rotator Cuff Repair? A Double Blinded, Randomized Controlled Trial. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
17. Wees, T., Siddiqui, M., & Kopriva, D. 2020. Evolving trends in abdominal aortic aneurysm (AAA) repair in Regina. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK

18. Lu, S., Lavoie, A., Nicolay, S., Neary, P., & Townsend, K. 2020. Using Ambulatory Cardiac Monitors to Detect Arrhythmias and Heart Problems in High Risk Indigenous Individuals Living in Rural Saskatchewan. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
19. Kamencic, B., Stone, S., Hopkins, L., & Brolund, M. 2020. The Impact of Caesarean Section Surgical Site Infections on Quality of Life. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
20. Abdulhadi, E., & Barton, J. 2020. Transformational Change in Post Graduate Trainees following Cultural Responsiveness Training. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
21. Shamim, W., Siddiqui, M., & Dehghani, P. 2020. Prevalence of new-onset atrial fibrillation in dialysis patients with end-stage kidney disease. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
22. Murung, V., & Stakiw J. 2020. Oncology care pathway modelling: Care pathways as a mechanism for improving patient information, interdisciplinary/ geographically dispersed collaboration, clinician resourcing & workload measurement. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
23. Jabbar, S., & Kamencic, H. 2020. Management of severe postpartum hemorrhage (A quality improvement study). Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK
24. Haque, M., & Damodharan, S. 2020. Self-Harm Hospitalisations as Secondary Suicide Prevention in Saskatchewan: Understanding Health Care Delivery/Utilisation of patients discharged with intentional self-harm using Mental Health Addictions Database & other Administrative Health Databases. Poster presented at the 14<sup>th</sup> Annual Research Showcase, Saskatchewan Health Authority, SK