



EPICORE ANNUAL REPORT

2018-2019



TABLE OF CONTENTS

Message from the Director	3
Who we are	4
What we do	5
Alberta Strategy for Patient Oriented Research Support for People and Patient-Oriented Research and Trials Unit	6
Highlighted Projects:	
ADI ISLET CORE WEBSITE	10
EPI•RISK™ MOBILE APP	11
APPLYING BIOMARKERS TO MINIMIZE LONG TERM EFFECTS OF CHILDHOOD/ ADOLESCENT CANCER TREATMENT (ABLE)	12
KYMITT STUDY	14
Outreach	15
Awards and Rewards	20
Our Team:	
Dr. Ross Tsuyuki	21
Henry Lee	22
Dr. Yazid N Al Hamarneh	23
Lily Yushko	24
Debbie Boyko	25
Glennora Dowding	26
Dr. Hiroshi Okada	27
Andriani Yunita	28
Bo Pan	29
Marcie Jayne Smigorowsky	30
Paul Braconier	31
Our Students	32
Appendix:	
Appendix A- Current projects	33
Appendix B- Investigators Served	41
Appendix C-EPICORE Publications	45



THANK YOU FOR READING OUR 2018/2019 ANNUAL REPORT! AS YOU'LL SEE, WE REMAIN TRUE TO OUR MISSION OF SERVING OUR COMMUNITY BY SUPPORTING RESEARCHERS IN CLINICAL AND HEALTH OUTCOMES RESEARCH

And in doing so, we support the mission of the Faculty of Medicine and Dentistry and the Departments of Medicine and Pharmacology. We serve the public good through excellence in research and education of the next generation of researchers, improving health and healthcare.

HERE'S A FEW HIGHLIGHTS:

1. As of July 2018, we joined the Department of Pharmacology (as I became their Chair), but still connected to the Department of Medicine and, most importantly, will continue to provide services to everyone, no matter what Department they come from. The Department of Pharmacology has opened up new possibilities to increase our role in facilitating transational research.

2. Some administrative changes – as I stepped into the Chair role for the Department of Pharmacology, I'm pleased to announce the appointment of Mr. Henry Lee as the Associate Director (Administration), and Dr. Yazid Al Hamarneh Associate Director, (Scientific).

3. The Consultation and Research Services Platform of the Alberta SPOR SUPPORT Unit (AbSPORU) has similarly been very successful in impacting patient-oriented research (page 8) and with very high client satisfaction (page 9). Ninety-seven percent of clients were satisfied or extremely satisfied with the services they received and 99% would recommend us to colleagues!

4. For those of you that like numbers, here's a few (see also our "Impact" infographic on page 5):

- Over 840 projects completed
- Over 470 individual investigators served
- 100 research consultations in the past year

Our success formula is pretty simple. We are accessible to all who want our services. We have highly dedicated and skilled people. Read on to learn more about some of the researchers we have supported and our fantastic staff.

And, as always, thank you for your support.

Dr. Ross Tsuyuki
Professor and Chair, Department of Pharmacology
Professor of Medicine and Director of EPICORE Centre
Faculty of Medicine and Dentistry
University of Alberta

WHO WE ARE

WHO WE ARE

EPICORE Centre is an operating unit within the Departments of Medicine and Pharmacology, Faculty of Medicine and Dentistry at the University of Alberta



FACULTY OF MEDICINE AND DENTISTRY MISSION:

The Faculty of Medicine & Dentistry serves the public good through excellence in medical and health professions education, research and patient care. We build partnerships essential to a high-performing academic health sciences centre.

EPICORE CENTRE



EPICORE MISSION:

“To serve the Faculty and our community by generating new knowledge in the areas of health and health care through the design, execution and analysis of clinical trials, health outcomes research and epidemiologic studies”

EPICORE CENTRE SUPPORTS THE MISSION OF THE DEPARTMENT OF PHARMACOLOGY AND THE DEPARTMENT OF MEDICINE THROUGH:

- Conducting innovative research that makes a difference in health and health care
- Furthering excellence through high quality service to other health researchers
- Educating and training of the next generation of health researchers through graduate student programs, postdoctoral fellowship training and courses
- Partnering with like-minded individuals and organizations

A unique aspect of EPICORE Centre is that we are an **open group** – we make our skills and services available to all, not just members of our research group.

WHAT WE DO:

Our Goal is to support clinical and health services research by providing high quality research services to investigators.

EPICORE Centre is involved in the full range of activities necessary for the conduct of health research, including protocol/ research design consultations, assistance with grant preparation, case report form design, database creation, study management, implementation, site coordination (for multicentre trials), data management, biostatistical consultation and analyses.

EPICORE Centre: Impact on the Research Landscape





ALBERTA STRATEGY FOR PATIENT ORIENTED RESEARCH SUPPORT FOR PEOPLE AND PATIENT-ORIENTED RESEARCH AND TRIALS UNIT (ABSPORU)

Alberta Strategy for Patient Oriented Research Support for People and Patient-Oriented Research and Trials Unit (ABSPORU) is a five year \$48 million federal-provincial partnership between Alberta Innovates (AI) and the Canadian Institute for Health Research (CIHR). ABSPORU was the first established unit among a network of SPOR SUPPORT Units across Canada.

The ABSPORU vision is to advance knowledge to improve patient health and healthcare with the goal to increase the quantity and quality of patient-oriented health research.

ABSPORU partners with Alberta Health, Alberta Innovates, Alberta Health Services, Athabasca University, University of Alberta, University of Calgary and University of Lethbridge.

ABSPORU is composed of seven platforms: Career Development, Consultation and Research Services, Data, Knowledge Translation, Methods, Patient Engagement and Pragmatic Clinical Trials. (Please visit www.absporu.ca for further information on each platform).

ABSPORU's approach is to offer training opportunities and services (rather than research operating grants) to support patient-oriented research from initial concept through to the dissemination of study findings.

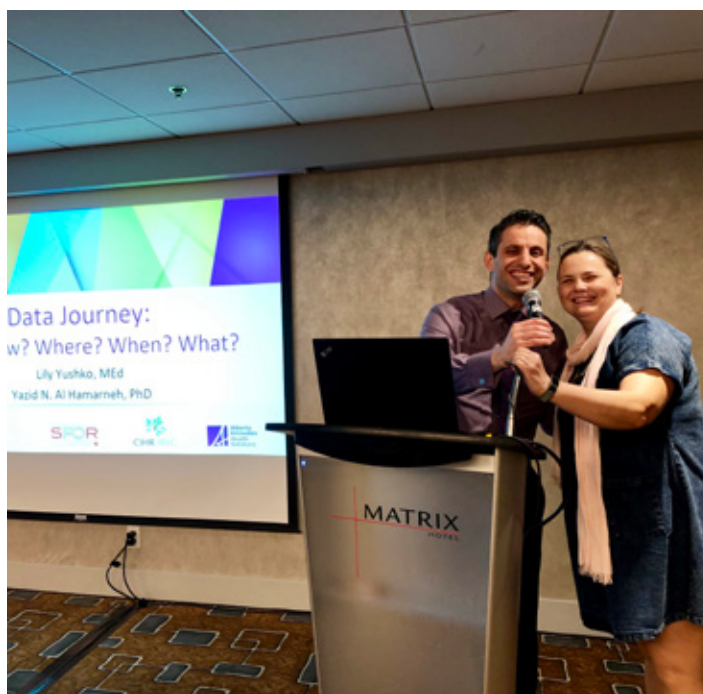
RESEARCH WOULD BE ELIGIBLE FOR ABSPORU'S SUPPORT IF IT:

- Is conducted in Alberta/Northwest Territories or has an Alberta-based investigator
- Is patient-oriented
- Demonstrates evidence of end-user engagement
- Has a potential for end-user (patient)/system impact

ABSPORU CONSIDERS RESEARCH PATIENT-ORIENTED IF IT INCLUDES AT LEAST ONE OF THE FOLLOWING:

- Focuses on patient-identified priorities
- Meaningfully engages patients as partners
- Has the potential to improve patient outcomes

Please visit www.absporu.ca to find out how can you take advantage of all the services that ABSPORU offers.



EPICORE CENTRE ACTS AS THE SECRETARIAT OF THE CRS PLATFORM. IN RETURN, THE PLATFORM PAYS FOR THE SERVICES IT USES

Dr. Ross Tsuyuki is the Consultation and Research Services (CRS) Platform lead. Dr. Yazid Al Hamarneh is the Associate Director/Scientific Officer. Mr. Henry Lee is the Business Manager. The platform was launched in November 2015.

The CRS Platform provides services for projects involving primary data collection (original data which is being collected for the first time to answer research question/s) using qualitative or quantitative methods. Such services can be categorized into:

DESIGN/METHODS SERVICES:

1. Research question refinement
2. Project design
3. Methods consultation
4. Grant review and assistance

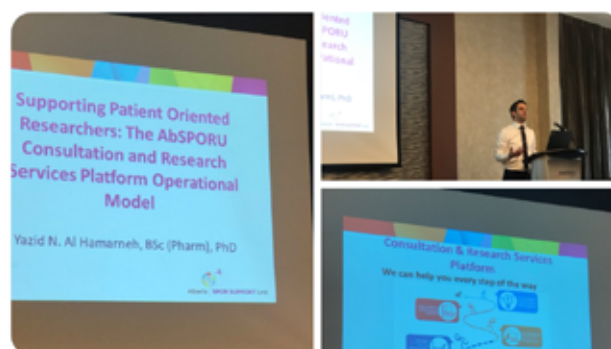
DATA MANAGEMENT

1. Development of case report forms (data collection sheets)
2. Database development and maintenance
3. Randomization
4. Quality Assurance

BIOSTATISTICS

1. Development of analytical plans
2. Sample size calculation
3. Statistical analysis
4. Clinical event adjudication

How can the Alberta SPOR unit help you? 🤔 Yazid Al-Hamarneh explains all! A tailored and collaborative effort to support research teams deliver impactful patient oriented services! 🙌
#AbSPORU_S19



To find out more about the ABSPORU Consultation and Research Services Platform and its services, please visit <https://www.epicore.ualberta.ca/home/spor>

Researchers from a variety of disciplines, institutions and stages of careers (ranging from students to professors) have benefited from the CRS platform services. The following figures illustrate the impact of our services on the Patient-Oriented Research landscape in Alberta and the satisfaction of our clients.



Consultation &
Research Services
Platform

Consultation and Research Services: Impact on Patient-Oriented Research

Stats are from inception of platform until March 31st, 2019.

I Capacity Development

Increasing quantity POR by:

- a) Total of **203** ABSPORU portal applications
- b) Total of **117** pre-portal consults*
- c) Facilitating the conduct of POR for early career researchers, clinicians and those new to Alberta (**101**)
- d) Starting residents, graduate students and trainees on the right foot (**60**)
- e) Recommending and encouraging researchers to include POR in their projects (**30**)
- f) Helping researchers obtain grants (**16 out of 17 applications**)
- g) Reaching out to researchers in the community (e.g. PCNs, Edmonton Seniors Centre, Rocky View Hospital etc.) (**14** and **6** pre-portal consults)

II Increasing quality of POR

- a) Referring ABSPORU portal applications to the Patient Engagement Platform and including them in conversations (**69**)
- b) Providing a multitude of services including:
 - 111** design & methods consultations,
 - 87** database creation & data management,
 - 104** statistical analyses, **79** analytical plans,
 - 52** sample size calculations, **49** case report forms,
 - 49** quality assurance, **30** randomization,
 - 12** clinical event adjudications, & **5** qualitative services

Why use CRS?

Services offered by **CRS** were ranked among the **top 4 services** that investigators need**

III Highly Qualified Personnel

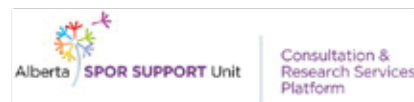
- a) Training the new generation of researchers by involving the ABSPORU studentship awardees in consultations.
- b) Training residents, graduate students and trainees to conduct POR (**60**)

IV Collaboration

- a) Working with other platform(s) (**100**), referring applicants to other platforms (**23**), bringing other platform(s) to the conversation (**15**)
- b) Connecting applicants with patients and/or other health care professionals to create multidisciplinary teams
- c) Decision makers (**27** applications from AHS or SCNs)
- d) Institutions across the province (e.g. University of Lethbridge, Covenant Health, PCNs, etc.)
- e) Researchers from a variety of health disciplines (e.g. physicians, pharmacists, nurses, etc.)

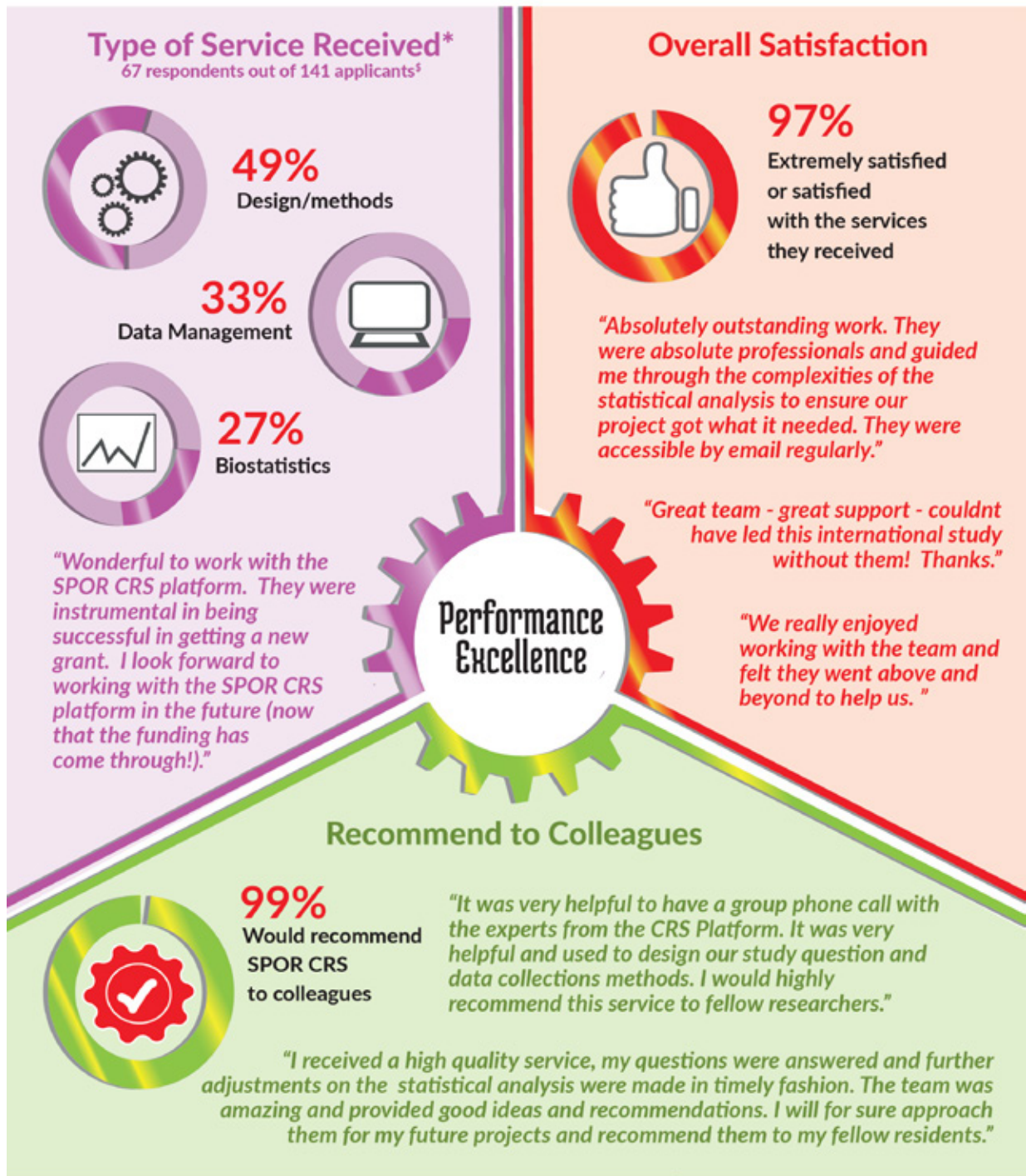
*Pre-portal consult occurs when the investigator(s) contacts the CRS Platform staff directly, then Platform staff meet with them to assess if the suggested project is patient-oriented (how it could be patient-oriented or more patient-oriented), the type of services required and the need to bring other platforms into the conversation based on the services required by the investigator(s). All projects that proceed forward must then apply for ABSPORU support through the portal.

**According to a request for information survey that was completed by the University of Alberta Faculty of Medicine and Dentistry



* As of March 31, 2019

Consultation and Research Services: Client Satisfaction



*Percentages not mutually exclusive
‡ Numbers as of March 31st, 2019

HIGHLIGHTED PROJECTS

ADI ISLET CORE WEBSITE

LEAD INVESTIGATOR:

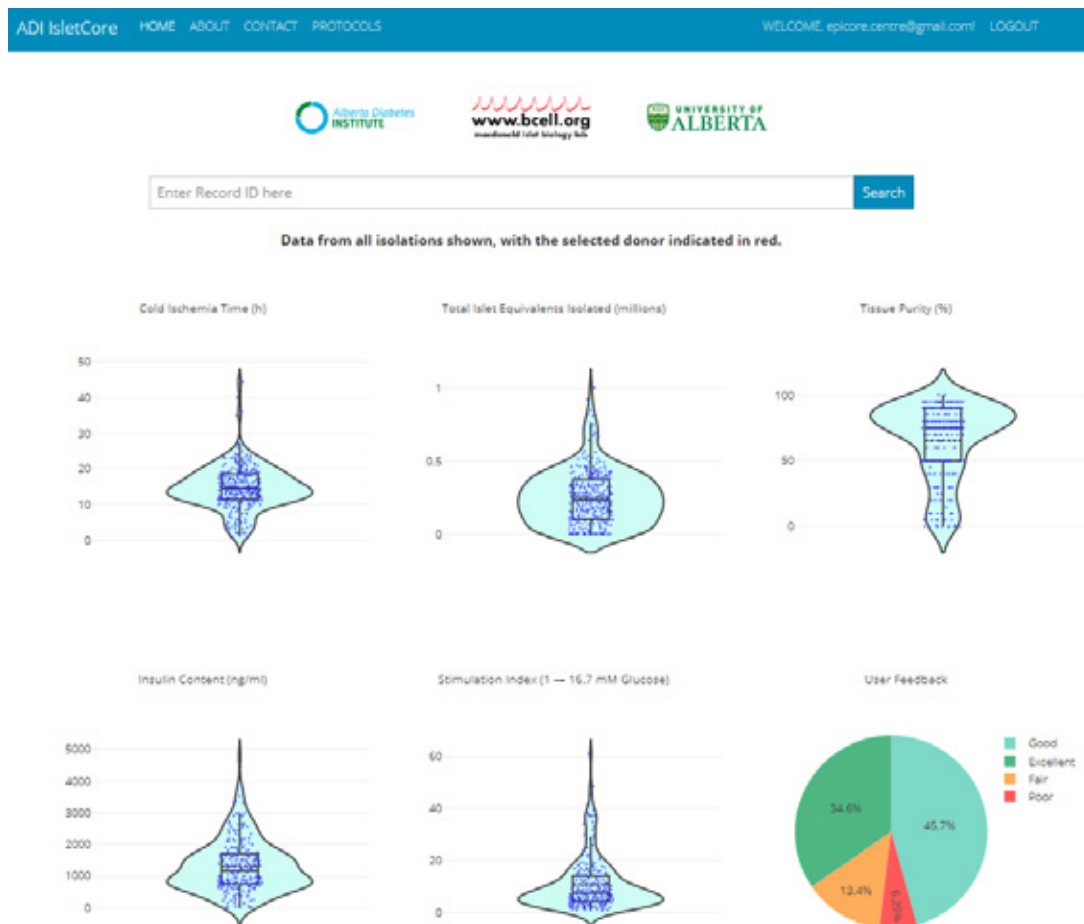
Dr. Patrick MacDonald, Professor, Department of Pharmacology, Faculty of Medicine and Dentistry

OVERVIEW:

MacDonald Islet Biology Laboratory provides human research islets to approximately 90 groups around the world. We at EPICORE Centre built a user friendly web tool for access to donor, organ processing, and quality control information along with banked sample and tissue block inventory.

IN THE WORDS OF THE LEAD INVESTIGATOR:

“The team at the EPICORE Centre provided valuable support, advice, and direction to our recent project. Our group was looking for help in developing a database and web tool for data viewing. The group at EPICORE centre provided guidance in database development, and designed an external-facing web portal for us. Importantly, the group went above and beyond in helping us to identify mechanisms of support to help us achieve our goal of providing important data from our program to the community.”



EPI•R_xISK™ MOBILE APP



LEAD INVESTIGATORS:

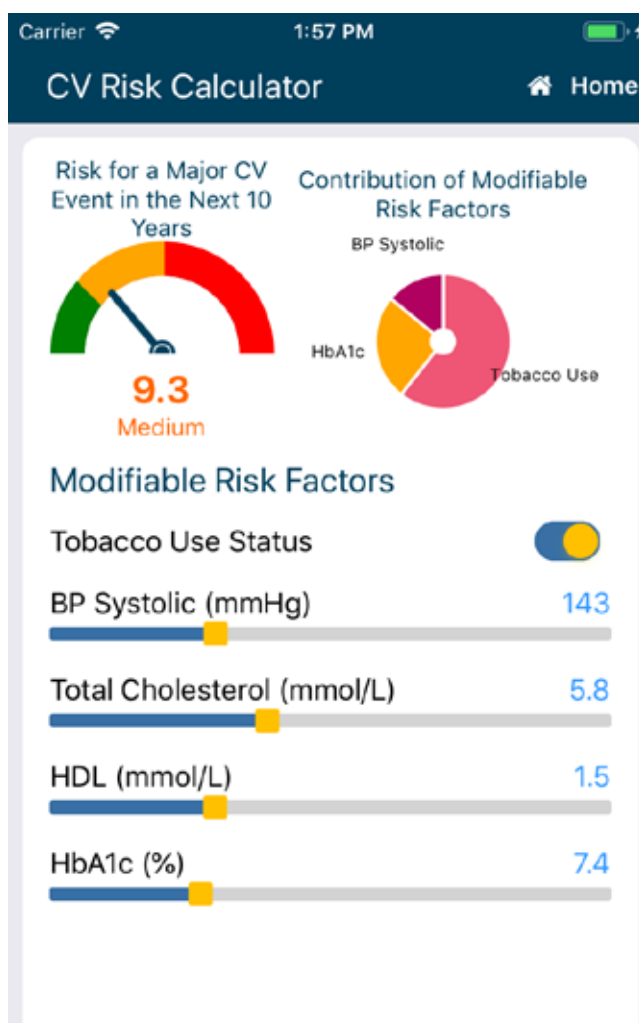
Dr. Ross Tsuyuki, Professor and Chair, Department of Pharmacology, Director, EPICORE Centre, Faculty of Medicine and Dentistry, University of Alberta

Dr. Yazid Al Hamarneh, Associate Director/Scientific Officer, Alberta SPOR Support Unit Consultation and Research Services Platform

OVERVIEW:

EPI•R_xISK™ is an interactive cardiovascular (CV) calculator™ which assesses CV risk and engage patients in managing their risk factors. The estimated risk of a CV event in the next 10 years and the contribution of each risk factor to the overall CV risk will be calculated based on the information that users enter. It also engages users to see the impact of risk factor modification on their CV risk (eg., the effect of lowering blood pressure).

IN THE WORDS OF ONE OF THE LEAD INVESTIGATORS:



“After seeing the excellent impact that the interactive cardiovascular risk calculator had on patients' outcomes in the R_xEACH study, we wanted to expand these benefits to the general population through a mobile application. Andriani Yunita has been instrumental through the entire process. She was very engaged and provided prompt responses and great suggestions that made the application much better. I commend her dedication and extreme attention to details. In summary the application would have been possible without Andriani's help”

IN THE WORDS OF ANDRIANI YUNITA:

“Cardiovascular Risk Calculator into a handy, interactive application, EPI•R_xISK™ Mobile App, allows users to calculate their cardiovascular risk off-line on their phones”

HIGHLIGHTED PROJECTS

APPLYING BIOMARKERS TO MINIMIZE LONG TERM EFFECTS OF CHILDHOOD/ ADOLESCENT CANCER TREATMENT (ABLE)

LEAD INVESTIGATORS:

Project Leader and Site PI: Kirk R. Schultz, MD Director, Childhood Cancer and Blood Research of BC Children's Hospital and Child and Family Research Institute Michael Cuccione Childhood Cancer Research Program Professor of Pediatrics, UBC

ABLE PI (cGVHD) and Site PI: Geoff Cuvelier MD, FRCPC Pediatric Hematology-Oncology Assistant Professor University of Manitoba, CancerCare Manitoba

ABLE PI (Nephrotoxicity): Mike Zappitelli, MD Associate Professor Pediatric Nephrology, Toronto Sick Kids

ABLE PI (Ototoxicity): Rod Rassekh, MD Associate Clinician Scientist, CFRI Clinical Assistant Professor, Division of Oncology/ Hematology/ BMT B.C. Children's Hospital

ABLE PI (Thrombosis): Lesley Mitchell Associate Professor, Department of Pediatrics, University of Alberta

EPICORE Data Management Centre: Dr. Ross Tsuyuki Professor of Medicine and Director, EPICORE Centre, Department of Medicine, Faculty of Medicine and Dentistry, University of Alberta

OVERVIEW:

With modern treatments for childhood cancers, survival has improved dramatically. However, these survivors are now at risk for complications from their cancer therapies, namely blood clots (thrombosis), hearing loss, kidney damage, and effects on bone marrow. The ABLE team project, funded by CIHR since October 1, 2011, consisted of a consortium of multidisciplinary Canadian investigators who have studied biomarkers of late effects of cancer treatment in children. The overall goal of the CIHR ABLE Team was to integrate their expertise and establish core resources that will support collaborative research to: 1) validate and apply biomarkers that predict secondary complications and long-term outcomes and 2) implement pilot clinical interventions to minimize complications and optimize long-term outcomes.

EPICORES CENTRE'S ROLE:

We have had the privilege to oversee the data management and analysis for this extensive study. This included the development of the Case Report Forms, database, training process for data submission, data quality assurance measures, and statistical analyses. Through the 8 years, a close collaboration with the ABLE Team was established. Forty-nine sites across North America and Vienna, Austria participated in at least one of the three arms of this massive project. Our Project Coordinator, Debbie Boyko, was dedicated on an ongoing basis to all sites in all aspects of data submission.

IN THE WORDS OF ABLE RESEARCH COODINATORS:

“
When I joined ABLE I learned a lot from you regarding GCP, definitely a great skill I learned, I thank you for that. You will be missed Debbie, but thank you for your guidance and always the support with a smile”

“
Never saw anything but positive and desire to produce the best quality!”

“
You have done great work on this study and this could not have been done without you”

“
Every time I check my CRFs, I check more, thinking is "Debbie going to like this?", than for actual errors. You have conditioned us like that.”

ABLE CON'T

IN THE WORDS OF ABLE RESERACH COODINATORS:



ABLE study data- collected the old fashioned way

“ You are the best! You are always on the ball and taught me so much about how to run a study (properly). It was a little ruff at first haha but you taught me the valuable lesson of good GCP for which I am grateful.”

“ It has been so great to work by your side for this study. I know the ABLE study data is of platinum quality because of you. You have been truly inspiring to me. You have shown me all the great qualities that are needed to be a great co-worker and site/data coordinator. I only have positive things to say about you.”

“ ABLE study will not be the same without you but know we will continue your good work until study completion! EPICORE is VERY LUCKY to have you as an employee because you are one of the hardest working people I know!”

“ As ABLE’s clinical research manager, I worked closely with EPICORE from the project’s initiation to its conclusion, 7 years later. The data from ABLE’s four projects were received in EPICORE, recorded, reviewed, had a QA system in place to flag problems and was later analyzed by the statisticians. EPICORE’s knowledgeable faculty and staff have been always very professional and helpful. Their approach to handling the data is very detailed and accurate. The whole data management process was very efficient, and every request or inquiry was promptly answered. It was absolutely a pleasure to collaborate with EPICORE.”

HIGHLIGHTED PROJECTS

KYMITT STUDY

LEAD INVESTIGATOR:

Dr. Kathryn King-Shier RN, PhD, FESC, Professor of Nursing and Department of Community Health Sciences at the University of Calgary

OVERVIEW:

Approximately 200 heart surgery patients from the Foothills Medical Centre in Calgary, Alberta will participate in a study of movement guidelines following median sternotomy. Traditional postoperative 'sternal precautions' have been used to prevent placing undo stress on the healing breast bone, in part by asking patients to restrict their arm movement for up to twelve weeks following surgery.

A new movement protocol called 'keep your move in the tube' (KYMITT) has been successfully adopted at Baylor University Medical Centre in Texas and Memorial Regional Hospital in Hollywood, Florida. With this movement protocol, patients are asked to keep their arms from being outstretched and to reduce potential tension on the chest incision; keeping the upper arms close to the body, as if inside an imaginary tube. Participants are instructed to 'stay in the tube' until they are able to perform movements without pain or discomfort. The purpose of the study is to examine 100 heart surgery patients who have used traditional 'sternal precautions' (Phase 1) and 100 heart surgery patients who have used the KYMITT, movement protocol (Phase 2) to provide prospective evidence for its use by comparing patients' return to normal activity over a 12-week post-operative period.

IN THE WORDS OF OF PROJECT COORDINATOR, PAM LEBLANC:

“ *In our experience of working with EPICORE, not only have we received fast, efficient and accurate case report forms development (both hard copy and on-line), but we have enjoyed proceeding with data collection in full confidence that our project data are housed and managed in a highly professional manner. In the instance of form revision or study modifications, EPICORE's staff have been more than helpful in advising how such changes may be incorporated into the database. Additionally, EPICORE's staff has always been available to educate about all aspects of software (REDCap) use.*”



Dr. Gabriel Fabreau

“

I am an clinician-scientist and junior faculty member in the departments of medicine and community health sciences at the University of Calgary and have been fortunate to have had a SPOR application approved to receive research support from the Consultation, Research Services and Knowledge Translation platforms who are supporting two major research programs that I co-lead - The Refugee Health and Connect 2 Care research programs. In both programs, working with SPOR AB has been truly wonderful. In particular, working closely with the research services platform has been extremely helpful. Without exaggeration, through their support, I was able to complete research tasks, organize a data repository, complete surveys and help direct and support one of our graduate students. All that had previously been hopelessly stuck or impossible to complete at my institution alone. Further, the support from the KT platform has been instrumental in preparing, building and delivering our communication and KT strategy to AHS leadership for our PRIHS3 funded C2C program. I am most grateful for their support throughout and can unreservedly say that we would not have been able to further our research programs without their support.”

“

The consultation services provided guidance and helped focus the community based project I had proposed. The team was able to help me strategize and revise the plan to meet the budget and the study objectives. Through the networking of the team I was able to successfully run the project through pharmacies throughout Alberta. The project was larger, more successful, and more efficient than projects I had been involved with before.”



Dr. Cheryl Sadowski

“

The SPOR Consultation and Research Services Platform is an amazing resource for early career researchers! As a new researcher working with an unfamiliar research methodology the welcoming and knowledgeable experts at SPOR helped guide my research design, and were available to answer my never ending questions throughout the study process. I am incredibly grateful for the support of the Consultation and Research Services Platform and would not have been able to successfully complete the qualitative aim in my MSc thesis without their guidance.”



Dr. Julie Beveridge



Dr. Tyler Lamb

“

The Consultation and Research Services Platform provided support in the statistical analysis and interpretation of data from our recent study examining a new technique in echocardiography called 'Multi-view 3D Fusion Echocardiography'. Their contribution was integral to the success of our research. They provided prompt and professional services and were able to help us meet a submission deadline on very short notice when a different group was unable to follow-through with their initial commitment to our project. Because of their excellent quality of work I would consider them as a first-choice for any further research-related / statistical consultations that our group may need to request in the future. Thanks again for that, you guys were a real life-saver"

“

Qualitative research is very different from other research we had done, so accessing the Consultation and Research Services Platform provided us with a resource and the confidence to move forward with a qualitative project on patient preferences regarding acute care pharmacy services. Without this support, taking on a whole new avenue of research might have been too intimidating."



Deonne Dersh-Mills

“

Recently our research team reached out to the Alberta SPOR Support Unit's Consultation and Research Services Platform to assist with project planning and a grant application to the MSI Foundation. Our project application, "Nohtawiy (my father): Supporting Cree fathers-to-be using a culturally-appropriate, community led, and strengths-based approach: impact on maternal, infant and paternal outcomes" was much stronger as a result of the expertise of the Alberta SPOR Support Unit and the consultation process. Specifically, through the Consultation and Research Services platform and face-to-face meetings we were able to develop a more coherent and robust data capture and analysis plan, and a more meaningful knowledge translation framework, that made sense for both our community partners and our research group. This was my first experience with the team, and would not hesitate to recommend the services to colleagues."



Dr. Richard Oster

Dr. Oster's grant application was successful

"We got the MSI grant!! I'm very pleased. Thank you for your help !! Looking forward to collaborating on this project"



Nicole McKenzie

“ Our provincial spinal cord injury (SCI) team in Alberta has had the good fortune to work collaboratively with the Consultation and Research Services Platform for nearly 2 years. Our SCI team, led by SCI Physiatrist and researcher, Dr. Chester Ho, was interested in creating a provincial registry for the long term follow-up of people with an SCI, a chronic condition that results in complex care needs across the lifespan. This registry is intended to build off of the successes of a similar national registry, while providing a more patient-oriented approach. The support and expertise of the Consultation Platform has resulted in the long term follow-up surveys being into the REDCap platform, including the ability for participants to provide electronic consent for participation. The registry will now be available to all SCI patients in the province, regardless of the etiology, or severity of their injury, time since injury, or place of residence. The REDCap platform is very user friendly for patients, clinicians, researchers, and community support teams. The Consultation team has also created reports which will be populated by the patient reported survey data. These reports will create efficiencies in our out-patient clinics and will facilitate the real-time follow-up of any concerns that are raised as a result of the follow-up questions.”

“ HEADSTART is an ambitious multicenter trial that would revolutionize how aortic dissections are managed across the world and would positively impact a large number of very sick patients. The 'Consultation and Research Services Platform' has helped our core investigator group develop a database and data management strategy. The platform has been available to us for any questions and comments at all times and has provided us with helpful advice on a number of topics outside of data services. Their responses have been prompt and insightful and we have benefited greatly from this association.”



Dr. Vamshi Kotha



Dr. Puneeta Tandon

“ We are thankful to the SPOR Consultation and Research Services Platform who met with us at multiple stages during the cirrhosis PRIHS grant development phase to provide guidance around study design and methodology. Closer to submission, Dr. Ross Tsyuki and Dr. Yazid Al Hamarneh provided valuable edits on the proposal which no doubt contributed to our eventual success with our PRIHS application. The Consultation and Research Services team was organized, available, effective and very prompt in their replies back to any queries we had.”



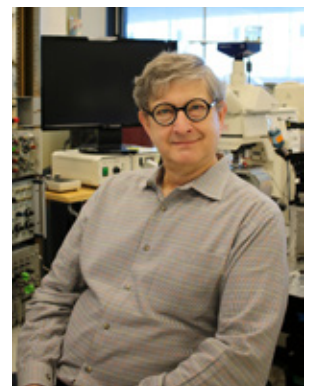
Dr. Claire Temple-Oberle
and Carmen Webb

“

Piloting a Breast Reconstruction Online Interactive Decision Aid in Alberta: A Quality Improvement Research Initiative: Breast reconstruction, as part of breast cancer care, involves a complex decision-making process on the part of patients. This study compared two online breast reconstruction decision aids and sought to understand if either aid led to great decision satisfaction and lesser decision regret. Over the term of each participant's involvement in the study, each participant completed a large number of questionnaires geared towards answering our study question. The support of the EPICORE statisticians was integral to organizing these questionnaires and analyzing the data they produced. The friendliness, professionalism, and availability of this team has helped us to contribute to women's healthcare in breast reconstruction."

“

The Gairdner International Symposium 12th International NPY-PYY-PP meeting, to be held in Edmonton July 27 – 31 2019, chose to interact with the EPICORE team to produce a website for the meeting. The website needed to advertise the existence of the meeting, and eventually have links to registration and to accommodation. We received sensible advice on the strengths and limitations of different ways to build a website, and agreed on a simple but flexible design (single page, multiple links). The team put the website together quickly, was responsive and helpful, and provided clear information on what they needed from me and what they would be able to do. Team members interacted easily with other suppliers. The site itself looks clean and has worked well. The experience working with the EPICORE team was a pleasure."



Dr. W.F. Colmers

“



Gillian Douglas

Our team is composed of three AHS employees, two nurse practitioners and one registered nurse, all providing direct patient care. We were selected to participate in the AHS Research Challenge for novice researchers. Our team experienced initial difficulty with developing our research design but fortunately connected with the ABSPORU in May of 2018 and received invaluable support and direction in developing our research design, proposal, and operationalizing our text-based intervention. ABSPORU provided a great deal of phone and email support throughout this process. Working with ABSPORU support was crucial for getting this team's research off the ground!"



Dr. Kathryn King-Sheir

“

Dear Yazid;

I'm writing to thank you and your team for all the help you have provided over the last few months. We have successfully entered 140 patients into the Keep Your Move in the Tube (KYMITT) study. We had not used RedCAP previously. Lily was instrumental in getting the data collection tools into RedCAP! She asked us some challenging questions about the data collection process. Doing this 'thinking' up front has certainly made the study flow more smoothly. I also appreciate how helpful your team has been with assisting with the Data Safety Monitoring Committee meeting which is coming up shortly!!"

"We developed a protocol to examine the performance of medication adherence questionnaires in south Asians with chronic diseases (relative to their white counterparts). We thus needed to have 'gold standard' data through DIMR. I had no idea where to start in that approval process. There were times when I thought I was in a black hole! However, you and your team showed me the way and made the process seamless! We are about to start Phase I of this study and am looking forward to working with you all on Phase II. You have also been extremely helpful in connecting me with local pharmacists who will help us to recruit patients! I appreciate working with you and your team!!!"

“

I first became connected with the Consultation and Research Services Platform at the Alberta SPOR Support Unit when I was preparing for presentation at an international conference. I received assistance with statistical analysis of data I had collected for my project evaluating thyroid gland ultrasound reports, adherence to guidelines and impact on referrals for biopsy. I had a one on one session with Dr. Al-Hamarneh who took the time to learn about my project and explain to me the necessary statistically analysis.

After presenting at two international conferences, I am now confidently preparing the manuscript for publication. All of this I could not have done without the help of the Consultation and Research Services Platform.

As a resident physician at the University of Alberta, research plays an important part of my training. For many residents research can be daunting especially when it comes to project design and statistical analysis. This unfortunately often results in residents shying away from research. However services like those provided by the Alberta SPOR Support Unit Consultation and Research Services, definitely encourage residents to carry out projects and ensure their success."



Dr. Bashiar Thejeel

AWARDS AND REWARDS

And, this just in- winner of the best oral abstract presentation at the ESCP meeting in Belfast.



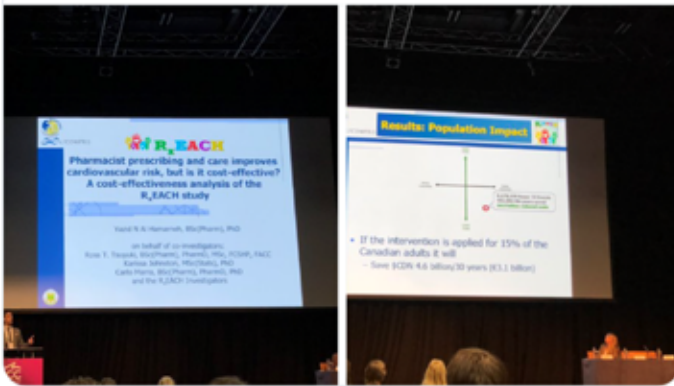
AWARD

BEST

ORAL COMMUNICATION

Ross Tsuyuki @Ross_Tsuy... · 26/10/2018

Dr Yazid Al Hamarneh presenting on the cost effectiveness of pharmacist prescribing & care for cardiovascular risk - cost savings of \$4.6 billion if applied to only 15% at risk in Canada. #Rx EACH



PE C002 COST EFFECTIVENESS OF PHARMACIST CARE FOR MANAGING PATIENTS AT HIGH RISK OF CARDIOVASCULAR DISEASE
Y. N. AL HAMARNEH, UNIVERSITY OF ALBERTA, CANADA.

Bart van den Bemt,
ESCP President

Stephane Steurbaut,
ESCP Secretary



"Chocolates might not make a PhD easier, but they sure don't hurt! Thanks Marcie."



DR. ROSS TSUYUKI

POSITIONS:

- Director, EPICORE Centre
- Professor and Chair, Department of Pharmacology, Faculty of Medicine and Dentistry
- Professor of Medicine, Faculty of Medicine and Dentistry, University of Alberta
- Platform Lead, Consultation and Research Services, Alberta SPOR (Strategy for Patient-Oriented Research) Support Unit
- Editor-in-Chief, Canadian Pharmacists Journal

HOMETOWN: Coquitlam, BC

BACKGROUND:

- BSc(Pharm), University of British Columbia
- Residency, St. Paul's Hospital/University of British Columbia
- PharmD, State University of New York at Buffalo
- Fellowship, Division of Cardiology, McMaster University (Supervisor, Dr. S. Yusuf)
- MSc (Health Research Methods), McMaster University

SKILLS/EXPERTISE:

- Health research methods
- Communicator
- Collaborator
- Clinical skills in heart failure care (Heart Function Clinic x 20 years)
- Educator

WHAT I DO:

- Provide leadership to the Department of Pharmacology
- Health services research, including pharmacy practice research (focus on evidence generation to advance patient care)
- Provision of support to researchers through EPICORE Centre and SPOR CRS Platform
- Training the next generation of health researchers

“*Ross leads by example as his work ethic, responsiveness and welcoming persona are infectious and are reflected in the EPICORE team. He is dedicated to make a difference in the delivery of health care, and that includes helping others to conduct their research.*”



OUR TEAM

HENRY LEE

POSITION:

- Associate Director, Administration, EPICORE Centre

HOMETOWN: Edmonton, AB

BACKGROUND:

- Bachelor of Commerce, University of Alberta
- Chartered Professional Accountant (CPA), Chartered Accountant (CA)

SKILLS/EXPERTISE:

- Seasoned financial manager with Controllership experience
- Senior Management roles with public, private, and not-for-profit companies.



“Henry’s previous finance management roles with professional services, and research organizations is an excellent fit for ABSPORU CRS / EPICORE. His experience in contract and risk management, and his attention to details, helps handling and monitoring the complicated agreements at the Centre.”



DR. YAZID N AL HAMARNEH

POSITION:

- Associate Director, Scientific, EPICORE Centre
- Alberta SPOR Support Unit Consultation and Research Services Platform

HOMETOWN:

Madaba, Jordan

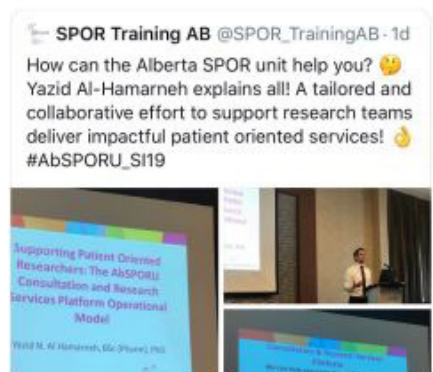
BACKGROUND:

- BSc in Pharmacy, the University of Jordan, 2005
- Professional Medical Representative at Merck Sharp and Dohme IA, 2005-2006
- PhD in Clinical Pharmacy and Pharmacy Practice, Queen’s University Belfast, 2010
- Postdoctoral Fellowship in Medicine (Cardiology) from the University of Alberta, 2015

SKILLS/EXPERTISE:

- Research methodology and design (quantitative and basic qualitative)
- Grant writing and evaluation
- Basic statistics (analytical plan, sample size calculation and basic statistical analysis)
- Basic REDCap and FunctionPoint
- Conducting pharmacy practice research
- Cardiovascular risk calculation and identification and management of cardiovascular disease risk factors

The amazing Yazid Al-Hamarneh! A resource to researchers, delivering information and support to advance health research. #patientengagement #PatientOrientedResearch #ABSPORU_SI19



OUR TEAM

LILY YUSHKO

POSITION:

- Team Lead, Clinical Research Informatics

HOMETOWN: Kyiv, Ukraine

BACKGROUND:

- MEd, National Pedagogical University, Kyiv, Ukraine
- Computer Systems Technology, NAIT, Edmonton, AB

SKILLS/EXPERTISE:

- Years of experience in finding out exactly what needs to be done and doing it right
- All aspects of project design and development
- Travelling in style



“
Lily’s highly developed problem solving skills in analysis, planning and execution allows her to correctly identify client's needs, analyze the pros and cons of many possible solutions and help to find the best one. She also assists her colleagues with any technical or analytical problems”



DEBBIE BOYKO

POSITION:

- Research Project Coordinator

HOMETOWN: Edmonton, AB

BACKGROUND:

- Registered Nurse
- Areas of specialty are Day Surgery and Emergency Nursing
- Part of the Data Management team for an International Pediatric Oncology Study
- Plays a key role in leadership to Research Teams

SKILLS/EXPERTISE:

- Over 40 years experience in nursing and research
- Good clinical practice
- Strong relationships with research teams

“Through Debbie’s many years of nursing experience, she has developed strong interpersonal and special collaborative skills that provide a sound background, guiding and coordinating Research Sites to continuously provide the high standards required for Good Clinical Practice. Debbie is very kind and extremely organized.”



OUR TEAM

GLENNORA DOWDING

POSITION:

- Administrative Assistant

HOMETOWN: Lumsden, NL

BACKGROUND:W

- Management Development Program Certificate, University of Alberta Extension, 1996
- Worked at EPICORE Centre since 1996

SKILLS/EXPERTISE:

- Organization
- Administration
- Communication
- Handling multiple priorities
- Meeting and event coordination
- Records management
- Office procedures
- Supplies management
- Maintaining office equipment Transcribing dictation
- MS Office – Word, Excel, Visio and PowerPoint



“*Glennora is unique as she is our rock who quietly keeps our office running like a well-oiled machine! She maintains constant professionalism to the outside world; from the mail-person to a visiting professor! She has lot of patience and perseverance to keep the office organized in a constantly changing work environment. She stops what she is doing in order to assist anyone who needs help.*”





DR. HIROSHI OKADA

POSITION:

- Postdoctoral research fellow, completed fellowship January, 2019

HOMETOWN:

BACKGROUND:

- BEd, MSc (Biology), PhD
- Pharmacist
- Research Fellow, Kyoto medical center research center, 2008-2016
- Kyoto university school of public health, 2016
- Lecturer, Ritsumeikan University, Kyoto Medical Center, 2015-2016

SKILLS/EXPERTISE:

- CDE (Certified Diabetes Educator 2009-)
- CSII (Continuous Subcutaneous Insulin Infusion) Trainer
- Facilitator of MI (Motivational Interviewing 2012-) program for community pharmacists

“*Hiroshi is an excellent researcher, his teaching and collaboration skill enhances all projects that he manages.*”



OUR TEAM

ANDRIANI YUNITA

POSITION:

- Software Developer

HOMETOWN: Bogor, Indonesia

BACKGROUND:

- Diploma in Computer Programming, Humber College, 2011 - 2013
- Bachelor in Computing Science Specialization in Software Practice , University of Alberta, 2013 - 2018

SKILLS/EXPERTISE:

- Database and web application development
- Badminton and swimming
- Cooking on a student budget
- Traveling on budget



“Andriani’s creativity, knowledge, curiosity and cheerfulness, brings added value to all of the EPICORE projects.”

BO PAN

POSITION:

- Biostatistician

HOMETOWN: Nanjing, China

BACKGROUND:

- BSc (Spec Math), University of Alberta, 2013-2017

SKILLS/EXPERTISE:

- Statistical analysis and deep learning
- Research main in high dimensional data analysis, text image data mining and analysis
- Machine-learning developing
- Cycling and hiking



“ Bo is a mixture of scientist, programmer, experiment designer and others to solve complex data problems. His job is to run the gamut of popular types of statistics and probes, including the sample study, the tabulation method, the interview technique, or the way the results are derived from the figures.”

OUR TEAM

MARCIE JAYNE SMIGOROWSKY

POSITION:

- PhD student, Faculty of Medicine and Dentistry, University of Alberta, successfully defended her PhD dissertation on March 21, 2019
- Nurse Practitioner
- Advanced Practice Nursing, Professional Practice Leader

HOMETOWN: Edmonton, AB

BACKGROUND:

- BScN MN, PhD, CCCN(c)
- Cardiac Nursing for over 30 years
- Coronary Intensive Care Nurse Educator
- Cardiac Rehabilitation Nurse
- Pacemaker Nurse
- Cardiac Nurse Practitioner - 13 years

SKILLS/EXPERTISE:

- General Cardiology
- Atrial Fibrillation
- Advanced Practice Nursing
- Patient Focused Healthcare
- Healthcare Optimization
- Healthcare Research - student



“*Marcie’s experience with the healthcare system has ignited her passion to improve the patient journey and optimize the care delivery through direct patient care and research.*”



PAUL BRACONNIER

POSITION:

- Business Consultant

HOMETOWN: Regina, SK

BACKGROUND:

- BBA (Business), University of Regina
- Chartered Accountant
- Led a full service clinical contract research company that managed and conducted human clinical trials, with operations in Canada, Mexico & Argentina
- Life Sciences-focused TEC Edmonton Executive-In-Residence

SKILLS/EXPERTISE:

- Strong interpersonal and communications skills
- Cross functional team membership and leadership
- Sound business judgment and common sense approach to problem solving
- Customer oriented approach for both internal and external customers
- Team player and team builder, consensus builder
- Extensive financial, legal, administrative and information system management



- Interaction with the investment community including investor and analyst presentations and discussions
- Extensive negotiations of business mergers, divestitures, acquisitions and software licensing agreements

“ Paul provides sound business and management advice. He is an unbiased and knowledgeable mentor, with a wealth of experience in research organizations”



STUDENTS



THOMAS LAI
Undergraduate Pharmacy Student



BETTY YANG
MSc (Statistics) Student



SAURABH VASHISHTHA
PhD Student (Supervisors: Dr. Gordon Broderick and Dr. Ross Tsuyuki) Successfully defending his PhD dissertation March 2019



MARCIE SMIGOROWSKY
PhD Student (Supervisors: Dr. Ross Tsuyuki) Successfully defending her PhD dissertation March 2019

APPENDIX A: CURRENT PROJECTS (248 OF 844 TOTAL)

[HTTPS://WWW.EPICORE.UALBERTA.CA/HOME/APPENDIX-A-1819/](https://www.epicore.ualberta.ca/home/appendix-a-1819/)

PROJECT

1. New program for frail geriatrics in primary care
2. Early implant failure in guided versus non guided implant placements
3. Effect of local antibiotic delivery for treating periodontitis in patients with diabetes
4. Perceived self-efficacy and oral health outcomes among adolescents
5. Periodontitis innovative treatments
6. Anti-platelet prescribing patterns post CABG in patients treated post-ACS
7. Innovative ways to treat periodontitis
8. Improving access to community addiction and mental health services through a multifaceted approach
9. RxEACH CKD
10. Validation of the AB-VTE database to determine admission status using Z-VTE algorithm
11. PEGASIS: Pan-Edmonton Group Addressing Social Isolation of Seniors
12. Healthcare aids at assisted living facilities
13. GLADIATOR
14. Chronic disease management of COPD
15. The prevalence of low value care in Alberta
16. Parent-reported outcomes for swallowing dysfunction in the otherwise healthy infants and toddlers
17. Rheum4U
18. A population approach to improving hypertension
19. GLS from Biplane Contrast Echo
20. IMAGE -CAD Study
21. Improving outcomes in vulnerable pregnant women
22. APRoN
23. Improving access to quality of life of chronic disease care for the Canadian high risk patient through eHealth...
24. SMART-Care
25. Telemonitoring for improved kidney outcomes (TIKO)
26. CPR Simulations
27. Using community engagement to define health research priorities in maternal-child and family health for the community setting
28. Patient perspectives regarding barriers to accessing care through the Northern Peripheral Nerve Clinic
29. Treatment with ursodeoxycholic acid...
30. Canadian Network for the Treatment of Intellectual Disability

PRINCIPAL INVESTIGATORS/ CO-INVESTIGATORS/PROJECT MANAGERS

Abbasi, M
 Abdelhay, N
 Abdelhay, N
 Abdelhay, N
 Abdelhay, N
 Ackman, M
 Addison, O
 Agyapong, V
 Al Hamarneh, Y / Tsuyuki, R
 Alotaibi, G
 Anderson, S
 Awosoga
 Bagshaw, S & Singh, G
 Bakal, J
 Bakal, J
 Baqays, A
 Barber, C
 Beahm, N
 Becher, H
 Becher, H/Sarban, V
 Bell, R
 Bell, R / Letourneau
 Bello, A
 Bello, A
 Bello, A
 Belmurugiah, N
 Benzies, K
 Beveridge, J
 Billington, E
 Bolduc, F

APPENDIX-A

PROJECT

31. Genomin analysis in patients with neurological disorders
32. Supplement use after exercising
33. Family research agenda initiative setting project
34. A Prairie Province Institutional Based Practices for VTE Prophylaxis in Medical Patients
35. AMS Database
36. Audit of Practice for the Management of AVT
37. Low Molecular Weight Heparin
38. VTE Audit 2014-2017
39. VTE Audit 2015/2016
40. Warfarin Management Pilot Study
41. Warfarin requirements in mechanical valve patients
42. Bone health in patients with osteoporosis
43. Pharmacists Prescribing and Managing and Mental Health
44. Why Wait? A shared care case conference model to improve diabetes care delivery
45. LASER
46. C-PASS
47. ICH ADAPT II
48. 5AsT-C
49. PLP collaboration with CRS
50. Cirrhosis Care Alberta Program (CCAP)
51. Deprescribing in the elderly
52. CMV infection and disease in high-risk transplant recipients (CMV donor positive and recipient negative) in the era of universal prophylaxis
53. Pilot study to evaluate the efficacy and safety of fecal microbiota transplantation (FMT) for bowel decolonization of Vancomycin-resistant *Enterococcus faecium*.
54. Diabetes foot care clinical pathway
55. Brain Cooling Study
56. Statistical consultation on reviewers' comments
57. Barriers to accessing care through the Northern Peripheral Nerve Clinic
58. Health care access for an immigrant community
59. NPY Meeting 2019 Website Development

PRINCIPAL INVESTIGATORS/ CO- INVESTIGATORS/PROJECT MANAGERS

Bolduc, F
Bomhof
Brockway, M
Bungard, T
Bungard, T
Bungard, T
Bungard, T
Bungard, T
Bungard, T
Bungard, T
Burt
Burton, D
Butalia, S
Butcher, K
Butcher, K/Sivakumar, L
Butcher, K/Sivakumar, L
Campbell-Scherer, D
Campbell-Scherer, D
Carbonneau, M
Carr, F
Cervera, C
Cervera, C
Chan, C
Chan, Michael/Dunn, M
Chan, Ming
Chan, Ming/Beveridge, J
Chowdhury, T
Colmers, W

PROJECT

60. Stand to strengthen? A cluster RCT to reduce sedentary time and improve the functional capacity and quality of life of older adults in assisted living
61. Cancer tumor criteria reclassification
62. Inter-observer variability in follicular thyroid neoplasms...
63. Multidisciplinary interventions for cancer related fatigue in the advanced cancer population
64. Deprescribing of antipsychotics
65. ABLE - cGVHD Study
66. Acculturation and evolving cardiovascular disease: an unhealthy dyad
67. Implications of Multiple Complications and Bariatric Surgery
68. Evidence-based update to the Canadian Clinical Practice Guideline for Exercise during pregnancy
69. Integrated support care pathway
70. Fibrosis case finding in the community
71. Prebiotics for Prevention of Ulcerative Colitis
72. Prebiotics vs Probiotics Patient Knowledge
73. Promoting safer sex in the context of heterosexual anal intercourse
74. Preoperative alpha-blockade for pheochromocytoma resection: Canada Vs USA
75. SMART-002
76. Quality of care in a novel Alberta Refugee Health Care Centre
77. Does approach affect cost per case in total hip arthroplasty
78. BETTER Program Institute
79. PACMAN — Phase 1
80. PACMAN — Phase 2
81. Change in SDMT and CVLT-2
82. Economic analysis of two different treatments for colon cancer
83. Neoplastic Thyroid Ultrasound
84. Northern Alberta Cirrhosis Cohort
85. Building brains and future
86. Telephone survivor clinics for early breast cancer
87. Impact of Improving CPR Quality on Patient Outcome in PICU
88. Validation of a triage audit process in an urban emergency department
89. Enhanced recovery after surgery
90. Using community engagement to define health research priorities in maternal-child and family health for the community setting

PRINCIPAL INVESTIGATORS/ CO-
INVESTIGATORS/PROJECT MANAGERS

Copeland, J

Craig, S

Craig, S

Culos-Reed, N

Cummings

Cuvelier, G

Dafoe, W

Dang, J

Davenport, M

Davidson, S

Davyduke, T

Dieleman, L

Dieleman, L / Silva, M

Douglas, G / Stewart, J / Gammel, C

Duttchen, K

Dziwenka, M

Fabreau, G

Fairgrieve-Park

Fernandes, C

Freedman, S

Freedman, S

Fujiwara

Fung, C

Fung, C

Garcia, L/Tandon, P

Gibb, R

Giese-Davis, J

Gilfoyle, E

Gillespie, W

Gilmour, L

Ginn, C / Keys, E

APPENDIX-A

PROJECT

91. Psoriasis management in the community
92. Comparison between soft dressing and vacuum heard dressing in amputation patients
93. Fetal alcohol spectrum disorder —Is this a ciliopathy?
94. Enhancing recovery Canada...
95. INFORM
96. The complex care hub
97. MUSICC
98. Introduction of heparin assay for the monitoring of UFH based treatment
99. Pilot study of a computerized decision-support system used to better support care providers in the diagnosis of pulmonary embolism
100. A pragmatic patient preference randomized trial of drug tapering in rheumatoid arthritis
101. DCE in RA, CD and IBS
102. Impact in changes in weight post lung transplant
103. Rheum4U Expansion
104. Spinal cord injury registry
105. Longitudinal follow-up for spinal cord injury
106. Retrospective review of cases of surgically-identified aortitis at 3 Canadian centres
107. EMS Microbiome Project
108. HIV Survey
109. ComPure Study
110. IBD Clinical Decision Making (CDM) Survey
111. Sustaining transfers through affordable research translation (START)
112. Disease severity assessment and the impact on choice of induction
113. Collaborative approach in child and youth mental health
114. Patient assessment tool for older adults
115. Biologic DMARD Prescribing
116. Improving health outcomes together
117. PRECISION
118. W21 collaboration
119. Derm Rheum Educational Tool for Autoimmune Manifestations (DREAM)
120. Rheumatoid Arthritis Biologic/Non Biologic
121. ON-TRAAC

PRINCIPAL INVESTIGATORS/ CO- INVESTIGATORS/PROJECT MANAGERS

Gniadecki, R
Godziuk, K

Goez, H
Gramlich, L
Gramlich, L/Dhaliwal, R
Grinman, M
Guerra, G
Guirguis, M

Haubrich, S

Hazelwood, G

Hazelwood, G
Hirji, A
Hirota, C
Ho, C
Ho, C / McKenzie, N
Hong, J

Hudson, A
Hughes, C
Huntsman, R
Huynh, H
Ickert, C
Isaac, DM
Jackson, M
Jones, A
Jones, B
Kaba, A
Kaplan, G
Kaufman, J
Keeling, S

Keeling, S
Keeling, S / Katz, S

PROJECT

122. Using community engagement to define health research priorities in maternal-child and family health for the community setting
123. Hypertension Clinic Registry
124. SWI — Vancomycin Sternal Wound
125. KYMITT
126. Digital health in Canadian schools of nursing: curricular content and educator capacity
127. CHANGE Workplace Program
128. CHANGE CANCER ALBERTA
129. Drug App
130. Hemiarch vs extended arch in aortic dissection — a systematic analysis by randomized trial (HEADSTART)
131. Contemporary practice in renal replacement therapy
132. Bioethics and consciousness decision making
133. Multi-view ThreeDimensional Fusion Echocardiography
134. Tracking delirium in critical care
135. Bone fracture in patients with hemophilia
136. Public health initiative in the community
137. Immunization in alive organ transplant patients
138. Improving quality of care in Sturgeon hospital
139. Experience of parents and children with neurodevelopment disorders
140. Course design
141. Telehealth in rural patients with CKD
142. Effects of an ICU Diary on PTSD Symptom
143. Patient perception of certain aspects of colorectal cancer treatment
144. Islet Core Database
145. Dietary Therapy in UC
146. C-STOP
147. C-STOP+ Extension Study
148. COPD treatment and management in the community
149. FORCAST
150. RAPPORT - Newfoundland
151. RAPPORT Edmonton
152. Novel clinical trials in islet and stem cell transplantation, restoration of immune tolerance and beta cell regeneration
153. BETTER Project (Registry)
154. BETTER WISE
155. Advancing provider use of collaborative goal-setting and patient-reported measure in community rehabilitation settings in Alberta
156. Treatment of resistant depression

PRINCIPAL INVESTIGATORS/ CO-INVESTIGATORS/PROJECT MANAGERS

Keys, E

Khan, N

Khani-Hanjani, A

King-Shier, K

Kleib, M

Klein, D

Klein, D/ Humphries, S

Koshman, S / Chan, T

Kotha, V

Kutsogiannis, J

Lamb, C

Lamb, T

LaPierre, L

Lee, A

Lee, K

Lee, N

Leon, H

Leung, B

Lindberg, M

Lunney

MacDonald, G

MacDonald, K

MacDonald, P

Madsen, K

Majumdar, S / Beaupre, L

Majumdar, S / Beaupre, L

Makhinova, T

Maksymowych, W

Maksymowych, W

Maksymowych, W

Malcolm, A

Manca, D

Manca, D

Manhas, K

Mann, U

APPENDIX-A

PROJECT

157. Adolescent and family mental health
158. Colorectal cancer questionnaire
159. ENCOMPASS
160. Evaluation Framework of the Cardiovascular Health and Stroke...
161. What is the utility of mycobacterial urine cultures?
162. Critical Care Strategic Clinical Network...
163. Exoskeletal assisted walking in acute rehab following spinal cord injury
164. Community pharmacist intervention in chronic diseases
165. Effect of STEEPO method of handover on MTU...
166. ABLE - Thrombosis
167. BMS Apixiban Biomarkers
168. Bariatric Clinic
169. Community family physician, Xenon gas foam echosclerotherapy
170. Rheum4U
171. Project INSPIRE: Integrated Screening Pathways in Primary Care
172. Specific intervention for the rehabilitation of walking after SCI: Role of the arms
173. Provincial patient registry for lymphedema and lymphatic disorders
174. Mutual maintaining mechanisms underlying the co-occurrence of PTSD and chronic pain in youth
175. Pediatric malnutrition screening
176. Stress in new immigrant mothers
177. RAPPORT - Biologics
178. International Collaboration Qualitative Research
179. Establishing the role of specialized mask fitting in adherence to non-invasive ventilation in children
180. Hypertension Clinic Registry
181. Technomed
182. Improving Post Discharge Care after AKI
183. REPOSE
184. Elderly patients with obesity and osteoarthritis
185. Understanding barriers to diabetic foot examination for patients and primary care providers
186. Nurse practitioner role in palliative care
187. Model of care for sleep-disordered breathing
188. Osteosarcoma Progression: a role for β -catenin/Active β -catenin
189. Intranasal Insulin for HIV-associated dementia
190. ABLE - Cisplatin and Hearing loss
191. Risk of venous thromboembolism in hospitalized cystic fibrosis patients

PRINCIPAL INVESTIGATORS/ CO-INVESTIGATORS/PROJECT MANAGERS

Marsh, R
Marshall, D
McBrien, K
McEwan, M
McFarlane, A
McIntosh, C
McIntosh, K
Michail, K
Minhas, R
Mitchell, L
Mitchell, L
Modi
Morison, N
Mosher, D/Devoe, D/Emrick, A/Barber, C
Mosli, M
Mushahwar, V

Narine, K
Noel, M

Norton, L
Nwoke
Ohinmaa, A/Institute of Health Economics
Okada, H
Olmstead, D

Padwal, R
Padwal, R
Pannu, N
Papathanassoglou, E
Park, E
Parsons, L

Pasirowski, A
Pendharkar, S
Persad, S
Power, C
Rassekh, R
Regan, S

PROJECT

192. Mobili-T (portable swallowing therapy system)
193. Prevention of fetal alcohol spectrum disorder by the use of technology
194. Evaluating the effectiveness of a patient navigator service...
195. Cystic Fibrosis
196. Antibiotics in Cystic Fibrosis
197. Feasibility of a community pharmacy intervention for lower urinary tract symptoms
198. Medication management in older adults
199. Evaluating the effectiveness of a patient navigator service to improve healthcare delivery during transition to adult care for youth/young adults with chronic health issues
200. PIAAF
201. ABLE
202. Perceived self-efficacy and oral health outcomes among adolescents
203. Radiology residents burnout
204. Prebiotics vs Probiotics Patient Knowledge
205. Mystery CRT
206. RAFT
207. Nurse Practitioner Management of AF
208. Blood Clots in People with CF
209. Nurse Practitioner Management of MS
210. Impact of older age on the tolerability and toxicities of adjuvant chemotherapy
211. Acquired hemophilia: clinical characteristics and management
212. Flare ups in patients with IBD
213. ANSd
214. Breast reconstruction surgery
215. A Pilot Randomized Control Trial Comparing the BRECONDA with the Healthwise Breast Reconstruction Decision Aid
216. Population approach to improving hypertension management in the community using pharmacists' advance scope of practice in Alberta
217. EPI-RxISK Mobile Application
218. Rx EACH Mobile App
219. Rx EACH Registry
220. Rx EACH Risk Calculator
221. RxOUTMAP
222. RxIALTA Study
223. RxING Japan
224. RxING Registry
225. Glycemic control after CABG in patients with type 2 diabetes

**PRINCIPAL INVESTIGATORS/ CO-
INVESTIGATORS/PROJECT MANAGERS**

- Rieger, J
Riley, N
Ryan, L
Saad, E
Saad, E/Brown, N
Sadowski, C

Sadowski, C
Samuel, S

Sandhu, R / McAlister, F
Schultz, K
Sharifzadeh-Amin, M
Shiau, G / Ferguson, C
Silva, M
Sivakumaran, S
Sivakumaran, S
Smigorowsky, M / Tsuyuki, RT
Smith, M
Smyth, P
Soleimani, M

Sun, L
Sutton, R
Tandon, P
Temple, C
Temple-Oberle, C

Tsuyuki, R

Tsuyuki, R / Al Hamarneh, Y
Tsuyuki, R / Al Hamarneh, Y
Tsuyuki, R / Al Hamarneh, Y
Tsuyuki, R / Al Hamarneh, Y
Tsuyuki, R / Beahm N
Tsuyuki, R / Morgan, A
Tsuyuki, R / Okada, H
Tsuyuki, R / Okada, H
Turgeon, R

PROJECT

226. Examining the effect of knowledge translation interventions on uptake of evidence-based practice by health care aides in long-term care and assisted-living facilities
227. Post AF ablation pilot study
228. SPA-LTC Initiative
229. Community, inflammatory bowel disease registry
230. Oncocytic adrenal neoplasms
231. Clinical characteristics and determinants of outcomes of pulmonary hypertension patients in Alberta
232. Breast cancer survivors preferences
233. Improving the clinical identification of ACL tears...
234. Prediction Rule for ACL Tears
235. Major bleeding with low-molecular-weight heparins in dialysis patients
236. Developing, implementing, and evaluating in-hospital practices to promote physical activity in children undergoing treatment for cancer
237. Aligning quality improvement curricula with competency-based education
238. Biologic DMARD Prescribing Patterns in Elderly Patients with RA
239. Retrospective review of case of surgically identified aortitis
240. Satisfaction Survey
241. Syrian refugees innovation clinics
242. Association of daily physician activity and aortic distensibility across the heart failure continuum
243. Clinical & community engagement in gestational diabetes education
244. CHOICE Study (hepatitis C in opioid users)
245. Drug induced osteoporosis
246. Practice tool for hormonal contraception for pharmacists
247. ABLE - Cisplatin and Kidney Disease
248. Assessing quality of KT models

PRINCIPAL INVESTIGATORS/ CO-INVESTIGATORS/PROJECT MANAGERS

Tworek, K

Valtuille, L

Venturato, L

Walters, B

Watson, J

Weatherald, J

Webb, C

Whittaker, J

Whittaker, J

Wu, C

Wurz, A

Yacyshyn, E

Yacyshyn, E

Yacyshyn, E

Yacyshyn, E

Yanicki

Yavari, M

Yeung, R

Young, C

Yuksel, N

Yuksel, N

Zappitelli, M

Zimmermann, G

APPENDIX B: INVESTIGATORS SERVED

[HTTPS://WWW.EPICORE.UALBERTA.CA/HOME/APPENDIX-B-1819/](https://www.epicore.ualberta.ca/home/appendix-b-1819/)

1. Abbasi, M	37. Beveridge, J	73. Chan, Michael	109. Drummond, J
2. Abdelhay, N	38. Bichel, A	74. Chan, Ming	110. Drummond, N
3. ABBOTT/Abbvie	39. Billington, E	75. Chao, J	111. Dukolow, S
4. Abdul, A	40. Bolduc, F	76. Chari, R	112. Dumper, J
5. Ackman, M	41. Bomhof	77. Chowdhury, R	113. Duong, E
6. Addison, O	42. Bosonea, AM	78. Chowdhury, T	114. Duttchen, K
7. Agyapong, V	43. Boule, N	79. Choy, J	115. Dziwenka, M
8. Alagiakrishnan, K	44. Bowering, C	80. Chubaty, A	116. Dyck, J
9. Al Hamarneh, Y	45. Braam, B	81. Collins-Nakai, R	117. Dytoc, M
10. Allen, M	46. Brandwein, J	82. Colmers, W	118. Dziegielewski, P
11. Alotaibi, G	47. Bratu, I	83. Cooper, E	119. El Biale, T
12. Anand, V	48. Brisbois, T	84. Copeland, J	120. Emery, D
13. Anderson, C	49. Brockway, M	85. Coulden, R	121. Emrick, A
14. Anderson, S	50. Broderick,	86. Couplan, N	122. Escudar, J
15. Anzarut, A	51. Broule, N	87. Craig, S	123. Estabrooks, C
16. Armstrong, P	52. Brown, N	88. Culos-Reed, N	124. Eurich, D
17. Ashton, T	53. Buldoc, F	89. Cummings	125. Evaschesen, C
18. Awosoga	54. Bullard, M	90. Cuvelier, G	126. Everaert, D
19. Badri, P	55. Bungard, T	91. Dafoe, W	127. Ezekowitz, J
20. Bagshaw, S	56. Burt	92. Dahlan, R	128. Fabreau, G
21. Bailey, D	57. Burton, D	93. Dang, J	129. Fairgrieve-Park
22. Bakal, J	58. Burton, J	94. Davenport, M	130. Fedorak, R
23. Baqays, A	59. Butalia, S	95. Davidson, S	131. Fedorak/Alistair
24. Barber, C	60. Butcher, K	96. Davis, P	132. Ferguson, C
25. Beahm, N	61. Butler, C	97. Davyduke, T	133. Fernandes, C
26. Beard, K	62. Cadili, A	98. Deane	134. Fodor, G
27. Beaulieu, C	63. Cameron, J	99. Dersch-Mills, D	135. Fox, R
28. Beaupre, L	64. Campbell, D	100. Devoe, D	136. Francis, G
29. Becher, H	65. Campbell-Scherer, D	101. Dewart, K	137. Frank, C
30. Bedard, E	66. Carbonneau, M	102. Dhaliwal, R	138. Freedman, S
31. Bell, N	67. Carr, F	103. Diamant, M	139. Fujiwara
32. Bell, R	68. Carrie, A	104. Dieleman, L	140. Fuller, M
33. Bellerose, D	69. Casey, L	105. Dillane, D	141. Fung, C
34. Bello, A	70. Cervera, C	106. Dolatabadi, S	142. Galvin, D
35. Benzies, K	71. Chan, C	107. Dong, K	143. Gammel, C
36. Belmurugiah, N	72. Chan, K	108. Douglas, J	144. Garcia, L

APPENDIX-B

145. Garneau Lung Lab	181. Hudson, A	216. Kleib, M	252. Maier, E
146. Garros, D	182. Hughes, C	217. Klein, D	253. Majumdar, S
147. Ghamdi, M	183. BHunt, I	218. Kopolovic, I	254. Makaroff, C
148. Gibb, R	184. Huntsman, R	219. Koshman, S	255. Makhinova, T
149. Giese-Davis, J	185. Huynh, H	220. Kotha, V	256. Makowsky, M
150. Gilfoyle, E	186. Hwang, P	221. Kroeker, K	257. Makskmowych, W
151. Gillespie, W	187. Ickert, C	222. Kumar, A	258. Malcolm, A
152. Gilmour, L	188. Institute of Health Economics	223. Kutsogiannis, J	259. Man, P/Sin, D
153. Ginn, C	189. Isaac, DM	224. Lai, F	260. Manca, D
154. Gniadecki, R	190. Jacka, M	225. Lai, T	261. Manhas, K
155. Godziuk, K	191. Jackson, M	226. Lamb, C	262. Mann, U
156. Goez, H	192. Janzen, W	227. Lamb, T	263. Manns, B
157. Gonzales	193. Jean-Anne	228. LaPierre, L	264. Marin, A
158. Gragasin, F	194. Jeerakathil, T	229. Lazaurescu, A	265. Marra, C
159. Graham, M	195. Joffe, M	230. Lee, A	266. Marrie, T
160. Graham, T	196. Johnson, JA	231. Lee, K	267. Marsh, R
161. Gramlich, L	197. Johnston, B	232. Lee, M	268. Marshall, D
162. Green, T	198. Jones, A	233. Lee, N	269. Martin, L
163. Grinman, M	199. Jones, B	234. Lee, T/Fedorak, R	270. Mason, A
164. Gross, D	200. Kaba, A	235. Lehr, E	271. Masterson, T
165. Guenther, C/Anzarut, A	201. Kalra, S	236. Leon, H	272. May, L
166. Guerra, G	202. Kanji, H	237. Leung, B	273. Mayers, I
167. Guirguis, M	203. Kao, D	238. Lewanczuk, R	274. McAlister, F
168. Gyenes, G	204. Kaplan, G	239. Li, Suqing	275. McBrien, K
169. Hall, J, Hall, K	205. Katz, S	240. Lin, A	276. McEwan, M
170. Hanna, J	206. Kassiri, J	241. Lindberg, M	277. McFarlane, A
171. Haubrich, S	207. Kaufman, J	242. Logsetty, S	278. McGhan, S
172. Haykowsky, M	208. Keeling, S	243. Long, R	279. McIntosh, C
173. Hazelwood, G	209. Kendle, D	244. Lu, C	280. McIntosh, K
174. Hazenbiller, O	210. Keshteli, A	245. Lunney	281. McKenzie, N
175. Hirji, A	211. Keys, E	246. Ma, M	282. McKinnon, G
176. Hirota, C	212. Khan, N	247. MacDonald, G	283. McLean, D
177. Ho, C	213. Khani-Hanjani, A	248. MacDonald, K	284. McMurtry, S
178. Hong, J	214. Kimber, S	249. MacDonald, P	285. McNeely, M
179. Hossini, F	215. King-Shier, K	250. Mackie, A	286. McNeil, J
180. Houle, S		251. Madsen, K	287. Meherali, S

288. Metz	325. Pannu, N	362. Ruiz, M	399. Soo, I
289. Michail, K	326. Pantano, A	363. Russell, A	400. Spoor, M
290. Michelakis, E	327. Papathansoglou, E	364. Ryan, E	401. Spencer, T
291. Miciak, G	328. Parent, E	365. Ryan, L	402. Steiner, I
292. Minhas, R	329. Park, E	366. Saad, E	403. Sun, L
293. Mitchell, L	330. Parsons, L	367. Sadowski, C	404. Sutton, R
294. Modi	331. Pasiorowski, A	368. Sadowski, D	405. Svenson, L
295. Mohydeen, S	332. Pate	369. Samuel, S	406. Svystun, O
296. Molzahn, A	333. Patel	370. Sandhu, R	407. Tandon, P
297. Monument, M	334. Paterson, I	371. Sarban, V	408. Taylor, J
298. Morgan, A	335. Pauly, R	372. Scantlebury, M	409. Thejeel, B
299. Morgan, C	336. Pearson, G	373. Schindel, T	410. Temple, C
300. Morison, N	337. Pehowich, M	374. Schultz, K	411. Temple-Oberle, C
301. Zygun, D	338. Pendharkar, S	375. Schulze, C	412. Teo, K
302. Morrissey, A	339. Persad, S	376. Shanks, M	413. Thompson, A
303. Mosher, D	340. Pharis	377. Shapiro, A	414. Thomson, A
304. Mosli, M	341. Plint, P	378. Sharma, A	415. Tomczak, C
305. Murray, A	342. Power, C	379. Sharpe, H	416. Tonelli, M
306. Mushahwar, V	343. Pretorius, V	380. Sheldon, S	417. Terrible, S
307. Nanda, A	344. Quan, H	381. Shiao, G	418. Toth, E
308. Narine, K	345. Rajesky, A	382. Shibata, M	419. Townsend, D
309. Nee, A/Paterson, I	346. Rashiq, S	383. Sharifzadeh-Amin, M	420. Toy, J
310. Newman, S	347. Rassekh, R	384. Shiao, G	421. Tredget, T
311. Noel, M	348. Ravid, N	385. Sia, W	422. Triska, O
312. Norris, C	349. Regan, S	386. Siddiqi, Z	423. Tsui, B
313. Norris, J	350. Reid, S	387. Siffeldeen, J	424. Tsuyuki, R
314. Norton, L	351. Rieger, J	388. Silva, M	425. Turgeon, R
315. Nwoke	352. Riley, N	389. Simpson, S	426. Tworek, K
316. O'Connell, D	353. Robinson, A	390. Sinclair, D	427. Tymchak, W
317. Ohinmaa, A	354. Robinson, J	391. Singh, G	428. Tyrrell, B
318. Okada, H	355. Rolfson, D	392. Sivakumar, L	429. Tyrrell, G
319. Olmstead, D	356. Rolfson, D	393. Sivakumaran, S	430. Tyrrell, L
320. Olson, D	357. Romney, J	394. Slaughter, S	431. Urquhart, G
321. Oster, R	358. Rosenthal, M	395. Smigorowsky, M	432. Valtuille, L
322. Oudit, G	359. Ross, D	396. Smyth, P	433. Van Diepen, S
323. PACU-RAH	360. Rowe, B	397. Solimani, M	434. Van Haften, D
324. Padwal, R	361. Rudolf, F	398. Somily, A	435. Van Zanten, S

APPENDIX-B & C

436. Venturato, L	447. Webb, C	458. Wilson, M	469. Zhu, J
437. Vethanayagam, D	448. Webber	459. Wong, J	470. Zimmermann, G
438. Vliagoftis, H	449. Weis. E	460. Wright	471. Zuk, D
439. Vohra, S	450. Wells, H	461. Wu, C	472. Zygun, D
440. Wagg, A	451. Welsh, R	462. Wurz, A	
441. Walters, B	452. Whiting, J	463. Yacyshyn, E	
442. Walters, S	453. Whittaker, J	464. Yanicki	
443. Wang, S	454. Wiebe, S	465. Yavari, M	
444. Warneke, L	455. Wilke, M	466. Yeung, R	
445. Watson, J	456. Wilkinson, G	467. Yuksel, N	
446. Weatherald, J	457. Wilson, K	468. Zappitelli, M	

APPENDIX C: EPICORE CENTRE PUBLICATIONS – APRIL, 2018 TO MARCH, 2019

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10. Tsuyuki RT. FAQs (frequent asinine questions) on pharmacists' scope of practice. (Editorial). *Can Pharm J* 2018;151(4):212-213.
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12. Sanyal C, Husereau D, Tsuyuki RT. Evidence and its impact on pharmacy practice: Don't be evidence-illiterate. (Editorial). *Can Pharm J* 2018;151(6):357-358.

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