

EPICORE ANNUAL REPORT

2017-2018



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THANKS FOR READING OUR 2017/18 ANNUAL REPORT. WE ARE EXCITED TO REPORT ON A VERY SUCCESSFUL YEAR OF SERVING OUR COMMUNITY AND FACILITATING CLINICAL AND OUTCOMES RESEARCH.

Our strengths are our accessibility and our people, and that's what we have tried to highlight this year. We are one of the only research services centre that is accessible to all researchers. Most other centres focus on their own research or have specific criteria for whom they can serve. This is where we are different. And we have been doing this for 20 years, because "it's the right thing to do". We can do this because of the extraordinary people that make up EPICORE Centre. People that are highly skilled and dedicated to providing research services. This is how we help the Faculty achieve its mission.

A FEW NEW FEATURES TO SHARE WITH YOU THIS YEAR:

- 1. Check out our "Impact of EPICORE Centre" on the research landscape on page 5. It's hard to believe we have been providing researchers with top quality services for over 20 years now. Over 430 different researchers served, and over 780 projects completed!
- 2. To get a snapshot of the breadth and depth of researchers we serve, have a look at page 14. These are actually taken from videos that you can see on our website: https://www.epicore.ualberta.ca/home/#fbvideo
- 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-six percent of clients were satisfied or extremely satisfied with the services they received and 98% would recommend us to colleagues!

2018 is bringing a few changes. As of July, we are joining the Department of Pharmacology (as I become 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 opens up new possibilities to increase our role in facilitating translational research (more on this as we ramp up).

Don't waste any of your time on this page – read on... and, thanks for your support!

RIM

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

WHO WE ARE

EPICORE Centre is an operating unit within the Department of Medicine, which is a part of the 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

"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 FACULTY DENTISTRY AND THE DEPARTMENT OF MEDICINE THROUGH:

- Conducting innovative research that makes a difference in health and health care
- Furthers excellence through high quality service to other health researchers
- Education and training of the next generation of health researchers through graduate student programs and courses
- Partnerships 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, case report forms design, database creation, study management, implementation, site coordination (for multicentre trials), data management, biostatistical consultation and analyses and assistance with grant preparation.

EPICORE Centre: Impact on the Research Landscape







Consultation & Research Services Platform

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

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.

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 **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. 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. Method consultation
- Grant Review

DATA MANAGEMENT

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

BIOSTASTICS

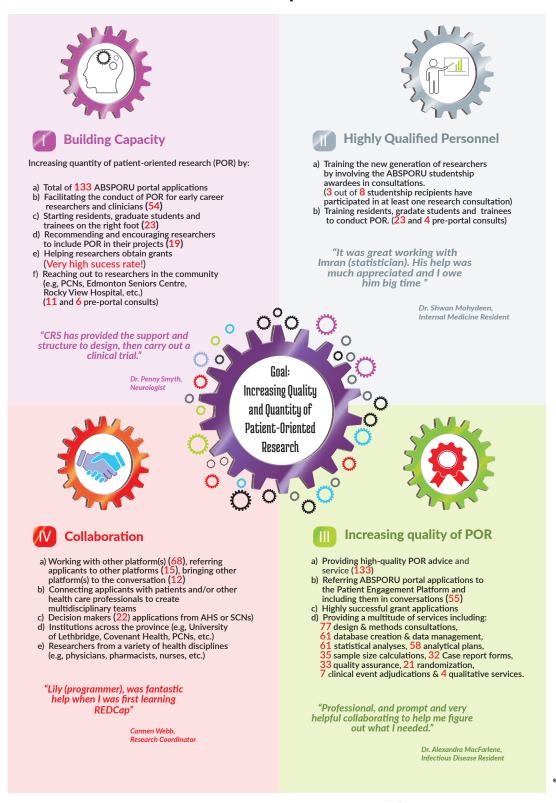
- 1. Development of analytical plans
- 2. Sample size calculation
- 3. Statistical analysis
- 4. Clinical event adjudication

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 Figures below illustrate the impact of our services on the Patient-Oriented Research landscape in Alberta and the satisfaction of our clients.

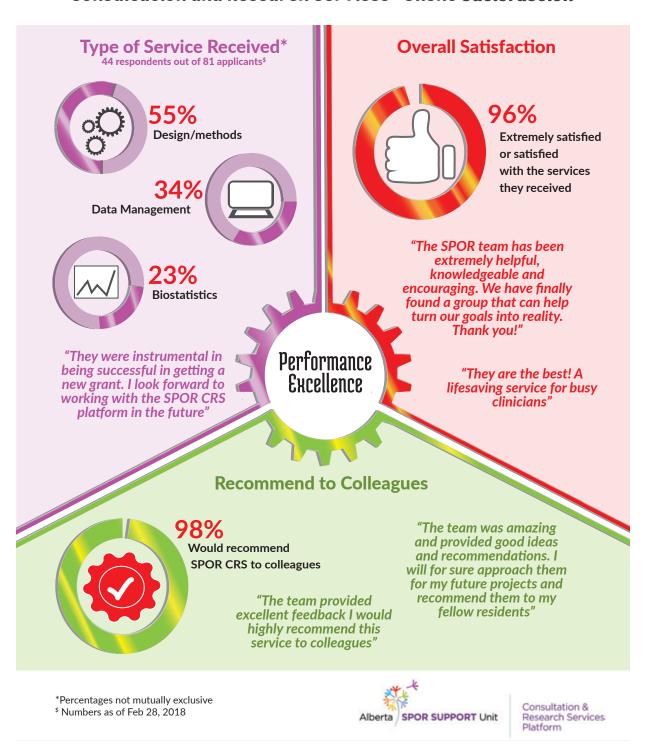


Consultation and Research Services: Impact on Patient-Oriented Research



* As of April 2018

Consultation and Research Services: Client Satisfaction



HIGHLIGHTED PROJECTS

URINARY TRACT INFECTION MANAGEMENT BY PHARMACISTS (R_xOUTMAP) STUDY

LEAD INVESTIGATOR:

Dr. Ross Tsuyuki, Professor of Medicine, Faculty of Medicine and Dentistry, University of Alberta

OVERVIEW:

The R_xOUTMAP study is a prospective registry that was conducted in the province of New Brunswick. In this study, pharmacists assessed, prescribed, adapted, and provided education to patients with uncomplicated urinary tract infections (UTI) and compared it to normal physician and pharmacist care.

IN THE WORDS OF THE PROJECT MANAGER:

The EPICORE data management team (Lily Yushko, Andriani Yunita, and Delaney Montague) was instrumental in setting up the study database, and facilitating numerous meetings between three lead investigators in Alberta and one infectious disease physician based in Moncton NB. The EPICORE biostatistical team (Imram Hassan and Bo Pan) did an excellent job of analyzing the data and with the aid of Lily Yushko and Andriani Yunita a data quality assurance was also completed. The study has been successfully published on-line in the Canadian Pharmacist Journal.

IN THE WORDS OF DR. NATHAN BEAHM:

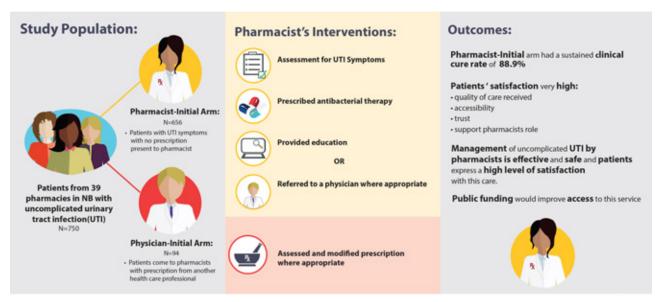
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I made sure that the database was intuitive and facilitated the patient care process. I provided training to the study pharmacists, and was the key liaison during the patient enrollment process with the pharmacists"

Highlighted Staff Member



R_vOUTMAP, CONT'D



Visual Abstract from the URINARY TRACT INFECTION MANAGEMENT BY PHARMACISTS (R,OUTMAP) STUDY



Altmetric score-this publication ranks in the top 5% of all research output scored by Altmetric

HIGHLIGHTED PROJECTS

HOT JOINTS: MYTH OR REALITY? A THERMOGRAPHIC JOINT ASSESSMENT OF INFLAMMATORY ARTHRITIS PATIENTS

LEAD INVESTIGATOR:

Dr. Elaine Yacyshyn, Accociate Professor, Department of Medicine, Division of Rheumatolgoy, University of Alberta

OVERVIEW:

The Thermography study aimed to assess the utility of thermographic imaging in the evaluation of inflammatory arthritis as an adjunct to clinical assessment. The evaluation of inflammatory arthritis can be challenging in determining active disease, and evaluation of synovitis (swollen joints). A thermography camera was used to evaluate control and Rheumatoid arthritis patient joints to assess if superficial joint temperatures could be utilized to determine clinical disease activity.

IN THE WORDS OF THE LEAD INVESTIGATOR:

"The EPICORE group led by Dr. Tsuyuki arranged numerous meetings to initially understand the project, then customized an approach for statistical analysis. Without the statistical abilities of Imran Hassan and significant statistical analysis, this project would not have come to fruition. The paper was successfully published in Clinical Rheumatology."

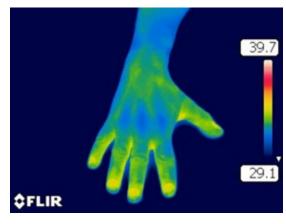


IN THE WORDS OF IMRAM HASSAN:

In this project, I helped in analyzing the joint temperatures of the participants. It was challenging to model the data due to the hierarchy of joints, hands and patients. Similar joints from the same hand of a particular person were correlated and the data from right hand were correlated to that of left hand of a person all together. We incorporated all these correlations in our model to obtain precise results. The project was a success and published in Clinical Rheumatology"

Highlighted Staff Member

Photo showing superficial joint temperature



RHEUM4U STUDY

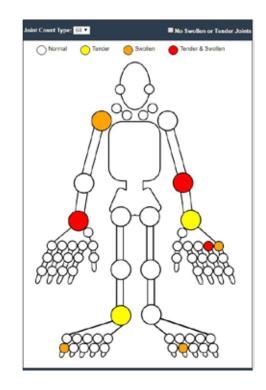
LEAD INVESTIGATORS:

Dr. Diane Mosher, Professor of Medicine and the Chief of the Division of Rheumatology at the University of Calgary and Dr. Claire Barber, assistant professor in the Departments of Medicine and Community Health Sciences at the University of Calgary.

OVERVIEW:

From its initial implementation until April 2017, Rheum4U supported prospective data collection for the study: Pilot testing Online Data Entry by Division of Rheumatology Patients, Clinic Staff, and Physicians (PI: Dr. Claire Barber). The purpose of this study was to pilot-test the feasibility, efficiency, and acceptability of an online submission of data via tablet or desktop computer by patients, clinical staff, and clinicians at 2 rheumatology outpatient clinics. The findings from this study were documented in an article entitled, "Rheum4U: Development and testing of a web-based tool for improving the quality of care for patients with rheumatoid arthritis". The article was recently accepted for publication by Clinical and Experimental Rheumatology.

From April 2017 to present, Rheum4U is supporting data collection for the CIHR-funded study: Rheum4U - Development and testing of a balanced scorecard approach to improve quality of care in adult and pediatric arthritis patients (PI: Dr. Claire Barber). The objective of this study is two-fold: (1) Develop a balanced scorecard for performance monitoring and quality improvement for Rheumatoid Arthritis and (2) Evaluate the implementation of the balanced scorecard in arthritis clinics using surveys and semi-structured interviews to determine the acceptability and feasibility of this approach to quality monitoring and improvement in arthritis care. Recruitment for this study currently totals 688 patients who have consented to participate.



IN THE WORDS OF THE LEAD PROJECT MANAGER ANDREA BROSE:

"The Division of Rheumatology at the University of Calgary has contracted EPICORE to build Rheum4U, an online data collection platform used by both patients and clinicians, to longitudinally collect a core data set for patients suffering from Inflammatory Arthritis. Rheum4U was implemented in 2 Rheumatology Clinics in Calgary in August 2016"

IN THE WORDS OF LILY YUSHKO AND ANDRIANI YUNITA:



We developed an innovative web application with user friendly data collection forms that are self-administered by patients and clinicians in Rheumatology Clinic. On top of it all, ecreated a practical tool called Homunculus to help patients visualize and identify their swollen and tender joins and calculate Disease activity score (DAS) to better manage their health conditions."



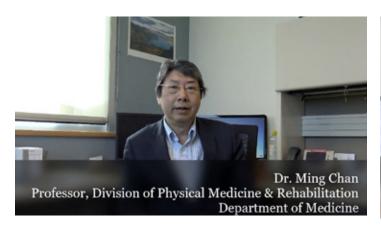
Highlighted Staff Members

WE PROVIDE HIGH QUALITY EXPERT SERVICES TO RESEARCHERS FROM A VARIETY OF DISCIPLINES.

These are taken from a video which highlights our services. Here are some excerpts. To view the full video, please go to https://www.epicore.ualberta.ca/home/#fbvideo



HERE ARE SOME EXCERPTS:





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That's what every researcher would expect to have access to. Presence of support organizations like EPICORE in-house is highly invaluable to the industry. There were statistical questions that were beyond my expertise, and EPICORE was able to come up with really solid advice for those issues"

Dr. Ming Chan, Professor, Division of Physical Medicine & Rehabilitation, Department of Medicine

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"If you don't have the resources or are resource constrained, [EPICORE] is more than happy to collaborate], they are more than happy to help us conduct this research. High quality level of work. I was pleasantly surprised that in addition to the math and power calculation, they advise and support me on the methodology and other aspects of research conduct... to make my work a success. I found them to be extremely, extremely useful and supportive"

Dr. Aminu Bello, Assistant Professor, Division of Nephrology, Department of Medicine





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Amazing [services]. Worked with Imran [statistician]... broke it down to simple pieces and he was able to help me figure out how to best address issues"

Dr. Sujata Persad, Associate Professor, Department pf Pediatrics



Excellent service. Very user friendly, very timely responses. Really enjoyed working with the team[who have] positive attitude and always try to find us the solutions"

Dr. Chester Ho, Professor and Divisional Director of Physical Medicine & Rehabilitation, Department of Medicine





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Services have been excellent, quality has been excellent. Bo and Imran [statisticians] have offered a lot of guidance and knowledge regarding the statistics"

Dr. Julie Beveridge, Plastic Surgery Resident, Department of Surgery



Great [services]. Imran [statistician]....
Outstanding individual able to communicate
effectively, able to look at complex trial and
understand what we were after and able to
provide a high level of support"

Dr. Denise Campbell-Scherer, Professor and Associate Dean, Department of Family Medicine



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."



DR. ROSS TSUYUKI

POSITION:

- Professor and Chair, Department of Pharmacology, Faculty of Medicine and Dentistry (as of July 3, 2018)
- Professor of Medicine, Faculty of Medicine and Dentistry, University of Alberta
- Director, EPICORE Centre
- 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)

WHAT I DO:

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

HENRY LEE

POSITION:

• Business Manager

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-forprofit 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."



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Yazid's span of research training puts him in a great position to help researchers with any research question they have. His dedication, eagerness and 'can do' attitude to serve combined with his enthusiasm to make research, its tools and its services available to everyone help us work with researchers, answer their questions, assist them to navigate the system and direct them towards the most useful resources."

DR. YAZID N AL HAMARNEH

POSITION:

- Associate Director/Scientific officer
- 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



LILY YUSHKO

POSITION:

• Team Lead, Clinical Research Informatics

HOMETOWN: Kiev, Ukraine

BACKGROUND:

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

SKILLS/EXPERTISE:

- Years of experience in finding out exactly what needs to be done and doing it
- · Case report forms and database design
- Data management
- Clinical and research application development
- Patient registries and surveys





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



Imran has the uncanny skill of explaining complex statistical concept in plain language to non experts, that assist researchers to understand how statistics helps answering their research questions. His background in theoretical statistics combined with his expertise in health and

epidemiological research makes him the go to person in all things

IMRAN HASSAN

POSITION:

Biostatistician

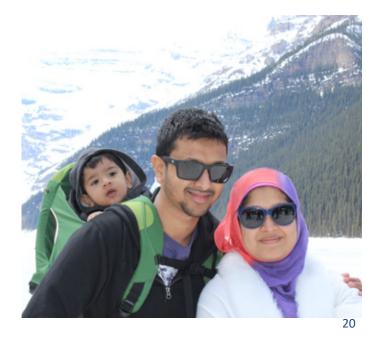
HOMETOWN: Dhaka, Bangladesh

BACKGROUND:

- BSc (Statistics & Biostatistics), University of Dhaka, Bangladesh
- MSc (Biostatistics), University of Alberta, AB, Canada
- Biostatistician, EPICORE Centre, since 2014
- Statistical Consultant, Training Consulting Centre, Dept. of Mathematical and Statistical Sciences, University of Alberta, 2014
- Research Assistant, Dept. of Mathematical and Statistical Sciences, University of Alberta, 2013-2014
- Research Assistant, Rural Development Partnership Society (RDPS), Dhaka, Bangladesh, 2011-2012

SKILLS/EXPERTISE:

- Statistics
- Biostatistics
- Epidemiology
- Research methods



statistics."

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

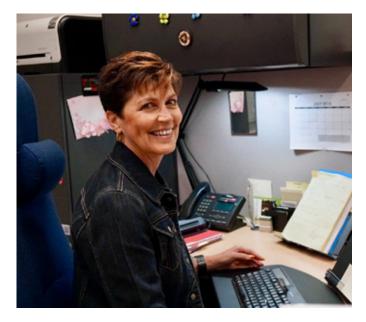
SKILLS/EXPERTISE:

- 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."



66

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."

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



ANDRIANI YUNITA

POSITION:

• Database Programmer Intern

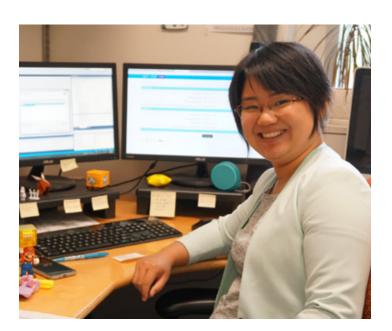
HOMETOWN: Bogor, Indonesia

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



Andriani's creativity, knowledge, curiosity and cheerfulness, brings added value to all of the EPICORE projects."



DR. HIROSHI OKADA

POSITION:

Postdoctoral research fellow

HOMETOWN: Fukuoka, Japan

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."



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."



MARCIE JAYNE SMIGOROWSKY

POSITION:

- PhD student, Faculty of Medicine and Dentistry, University of Alberta
- Nurse Practitioner
- Advanced Practice Nursing, Professional Practice Leader

HOMETOWN: Edmonton, AB

BACKGROUND:

- BScN, MN, PhD(c), 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

DR. NATHAN BEAHM

POSITION:

Postdoctoral research fellow

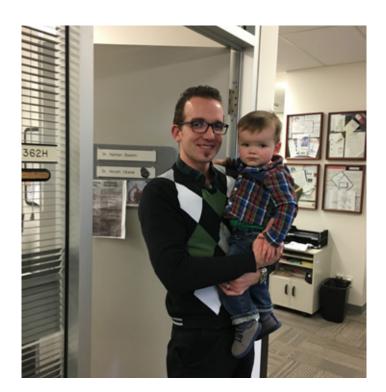
HOMETOWN: Estevan, SK

BACKGROUND:

- BSP, University of Saskatchewan, 2011
- PharmD, University of Alberta, 2016

SKILLS/EXPERTISE:

- Main clinical area of interest is infectious diseases/antimicrobial stewardship
- Other areas of interest include anticoagulation, diabetes, and heart failure.
- Also ok at volleyball





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Nathan brings a practical approach to problem solving and to study design that may at least partially be a result of being not far removed from being a full-time practicing pharmacist."

BO PAN

POSITION:

• Biostatistics Assistant

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."

ANDREA MORGAN

POSITION:

• Researcher, thesis candidate

HOMETOWN: Calgary, AB

BACKGROUND:

• BSc, BScPharm, MPH (thesis candidate)

SKILLS/EXPERTISE:

- Public health areas of interest: social determinants of health/health inequalities, dementia, diabetes, cardiovascular disease
- Clinical pharmacy practice areas: cardiovascular disease, general medicine, surgical orthopedics, surgical urology, kidney transplant, psychiatry





Andrea believes hard work gets the best results. She trusts in people and works with them to achieve their goals."

PAUL BRACONNIER

POSITION:

Business Consultant

HOMETOWN: Regina, SK

BACKGROUND:

- BBA (Business), University of Regina
- Charted 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

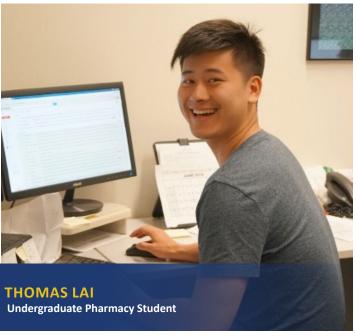


Paul provides sound business and management advice. He is an unbiased and knowledgeable mentor, with a wealth of experience in research organizations"

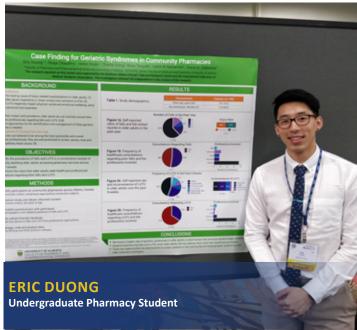


STUDENTS









APPENDIX A: CURRENT PROJECTS (262 OF 780 TOTAL) HTTPS://WWW.EPICORE.UALBERTA.CA/HOME/OUR-PROJECTS/

PROJECT	PRINCIPAL INVESTIGATORS/
PROJECT	CO-INVESTIGATORS/PROJECT MANAGERS

		CO-INVESTIGATORS/PROJECT MA
1.	New program for frail geriatrics in primary care	Abbasi, M
2.	Periodontitis innovative treatments	Abdelhay, N
3.	Perceived self-efficacy and oral health outcomes among adolescents	Abdelhay, N
4.	Anti-platelet prescribing patterns post CABG in patients treated post-ACS	Ackman, M
5.	Innovative ways to treat periodontitis	Addison, O
6.	Improving access to community addiction and mental health services through a multifaceted approach	Agyapong, V
7.	RxEACH CKD	Al Hamarneh, Y / Tsuyuki, R
8.	Validation of the AB-VTE database to determine admission status using Z-VTE algorithm	Alotaibi, G
9.	PEGASIS: Pan-Edmonton Group Addressing Social Isolation of Seniors	Anderson, S
10.	Healthcare aids at assisted living facilities	Awosoga
11.	CVICU Frailty Study	Bagshaw, S
12.	SPARK	Bagshaw, S
13.	GLADIATOR	Bagshaw, S & Singh, G
14.	The prevalence of low value care in Alberta	Bakal, J
15.	Parent-reported outcomes for swallowing dysfunction in the otherwise healthy infants and toddlers	Baquys, A
16.	Rheum4U	Barber, C
17.	A population approach to improving hyplertension	Beahm, N
18.	GLS from Biplane Contrast Echo	Becher, H
19.	IMAGE -CAD Study	Becher, H/Sarban, V
20.	APRON	Bell, R
21.	Peas and Beans	Bell, R
22.	Improving outcomes in vulnerable pregnant women	Bell, R
23.	Improving access to quality of life of chronic disease care for the Canadian high risk patient through eHealth	Bello, A
24.	SMART-Care	Bello, A
25.	Telemonitoring for improved kidney outcomes (TIKO)	Bello, A
26.	CPR Simulations	Belmurugiah, N
27.	Using community engagement to define health research priorities in maternal-child and family health for the community setting	Benzies, K
28.	Patient perspectives regarding barriers to accessing care through the Northern Peripheral Nerve Clinic	Beveridge, J
29.	Treatment with ursodeoxycholic acid	Billington, E
30.	Genomin analysis in patients with neurological disorders	Bolduc, F
31.	Canadian Network for the Treatment of Intellectual Disability	Bolduc, F

Bomhot

32. Supplement use after exercising

APPENDIX-A

PRO	DJECT	PRINCIPAL INVESTIGATORS/ CO-INVESTIGATORS/PROJECT MANAGERS
33.	Family research agenda initiative setting project	Brockway, M
34.	Triage Inter-rater Reliability Study	Bullard, M
35.	AMS Database	Bungard, T
36.	VTE Analyses	Bungard, T
37.	Warfarin Loading Dose	Bungard, T
38.	Warfarin requirements in mechanical valve patients	Bungard, T
39.	Bone health in patients with osteoporosis	Burt
40.	Community pharmacist intervention in depression	Burton, D
41.	Why Wait? A shared care case conference model to improve diabetes care delivery	Butalia, S
42.	C-PASS	Butcher, K/Sivakumar, L
43.	ICH ADAPT II	Butcher, K/Sivakumar, L
44.	Quality improvement	Kaba, A
45.	5A's Team	Campbell-Scherer, D
46.	5AsT Patient Level	Campbell-Scherer, D
47.	Implementation and validation of the "5As framework of obesity management" in primary care	Campbell-Scherer, D
48.	PLP collaboration with CRS	Campbell-Scherer, D
49.	Enhancing care for liver cirrhosis patients	Carbonneau, M
50.	Deprescribing in the elderly	Carr, F
51.	CMV infection and disease in high-risk transplant recipients (CMV donor positive and recipient negative) in the era of universal prophylaxis	Cervera, C
52.	Pilot study to evaluate the efficacy and safety of fecal microbiota transplantation (FMT) for bowel decolonization of Vancomycin-resistant Enterococcus faecium.	Cervera, C
53.	Diabetes foot care clinical pathway	Chan, C
54.	Brain Cooling Study	Chan, Michael/Dunn, M
55.	Barriers to peripheral nerve injury	Chan, Ming/Beveridge, J
56.	Ultrasound test for Pressure Ulcer	Chan, Ming
57.	Statistical consultation on reviewers' comments	Chan, Ming
58.	Health care access for an immigrant community	Chowdhury, T
59.	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	CopeLand, J
60.	Cancer tumor criteria reclassification	Craig, S
61.	Inter-observerr variability in follicular thyroid neoplasms	Craig, S
62.	Multidisciplinary interventions for cancer related fatigue in the advanced cancer population	Culos-Reed, N
63.	Deprescribing of antipsychotics	Cummings
64.	ABLE - cGVHD Study	Cuvelier, G
65.	European Society of Cardiology Journal editorial	Dafoe, W
66.	Integrated support care pathway	Davidson, S

PROJECT

- 67. Evidence-based update to the Canadian Clinical Practice Guideline for Exercise during pregnancy
- 68. Fibrosis case finding in the community
- 69. Prebiotics for Prevention of Ulcerative Colitis
- 70. Prebiotics vs Probiotics Patient Knowledge
- 71. Diet in Ulcerative Colitis
- 72. Development and evaluation of an expectation management for deprescribing tool and use with people with dementia
- 73. Preoperative alpha-blockade for pheochromocytoma resection: Canada Vs USA
- 74. SMART-002
- 75. Quality of care in a novel Alberta Refugee Health Care Centre
- 76. Quality of care in a novel Alberta Refugee Health Care Centre
- 77. Does approach affect cost per case in total hip arthroplasty
- 78. Transforming pediatric acute mental health care service delivery
- 79. Change in SDMT and CVLT-2
- 80. Economic analysis of two different treatments for colon cancer
- 81. Promoting safer sex in the context of heterosexual anal intercourse
- 82. Northern Alberta Cirrhosis Cohort
- 83. Building brains and future
- 84. Telephone survivor clinics for early breast cancer
- 85. Impact of Improving CPR Quality on Patient Outcome in PICU
- 86. Validation of a triage audit process in an urban emergency department
- 87. Enhanced recovery after surgery
- 88. Using community engagement to define health research priorities in maternal-child and family health for the community setting
- 89. Psoriasis management in the community
- Comparison between soft dressing and vacuum heard dressing in amputation patients
- 91. Fetal alcohol spectrum disorder Is this a ciliopathy?
- 92. Enhancing recovery Canada....
- 93. INFORM
- 94. The complex care hub
- 95. MUSICC
- 96. Pilot randomized controlled trial
- 97. Introduction of heparin assay for the monitoring of UFH based treatment
- 98. Diabetes Care Optimization
- 99. Pilot study of a computerized decision-support system used to better support care providers in the diagnosis of pulmonary embolism
- 100. DCE in RA, CD and IBS

PRINCIPAL INVESTIGATORS/ CO-INVESTIGATORS/PROJECT MANAGERS

Davenport, M

Davyduke, T

Dieleman, L

Dieleman, L / Silva, M

Dieleman, L/Madsen, K/Keshteli, A

Drummond, N

Duttchen, K

Dziwenka, M

Fabreau, G

Fabreau, G

Fairgrieve-Park

Freedman, S

Fujiwara

Fung, C

Gammel, C

Garcia, L/Tandon, P

Gibb, R

Giese-Davis, J

Gilfoyle, E

Gillespie, W

Gilmour, L

Ginn, C

Gniadecki, R

Godziuk, K

Goez, H

Gramlich, L

Gramlich, L/Dhaliwal, R

Grinman, M

Guerra, G

Guerra, G

Guirguis, M

Gyenes, G/Li, Suqing

Haubrich, S

Hazelwood, G

APPENDIX-A

PROJECT PRINCIPAL INVESTIGATORS/ CO-INVESTIGATORS/PROJECT MANAGERS 101. A pragmatic patient preference randomized trial of drug tapering in

	Hazelwood, G
Impact in changes in weight post lung transplant	Hirji, A
Rheum4U Expansion	Hirota, C
Longitudinal follow-up for spinal cord injury	Ho, C
Spinal cord injury registry	Ho, C
EMS Microbiome Project	Hudson, A
HIV Survey	Hughes, C
Perceptions of Pharmacist's Role and Professional Development	Hughes, C
BD Clinical Decision Making (CDM) Survey	Huynh, H
	Hwang, P
Sample size calculation for degraded cardiac troponin study	Hwang, P
Sustaining transfers through affordable research translation (START)	Ickert, C
Disease severity assessment and the impact on choice of induction	Isaac, DM
Collaborative approach in child and youth mental health	Jackson, M
Patient assessment tool for older adults	Jones, A
Biologic DMARD Prescribing	Jones, B
mproving health outcomes together	Kaba, A
PRECISION	Kaplan, G
RheumDash	Katz, S
W21 collaboration	Kaufman, J
Derm Rheum Educational Tool for Autoimmune Manifestations (DREAM)	Keeling, S
Pregnancy in RA	Keeling, S
Rheumatoid Arthritis Biologic/Non Biologic	Keeling, S
RA Risk Reduction	Keeling, S
ON TRAAC with Patient Rapport	Keeling, S
ON TRAAC	Keeling, S and Katz, S
	Keys, E
esACS Substudy	Khan, N
SWI – Vancomycin Sternal Wound	Khani-Hanjani, A
esACS Study	King-Shier, K
E-CHANGE	Klein, D
CHANGE CANCER ALBERTA	Klein, D/ Humphries, S
	A pragmatic patient preference randomized trial of drug tapering in rheumatoid arthritis Impact in changes in weight post lung transplant Rheum4U Expansion Longitudinal follow-up for spinal cord injury Spinal cord injury registry EMS Microbiome Project HIV Survey Perceptions of Pharmacist's Role and Professional Development IBD Clinical Decision Making (CDM) Survey Proteolytic degradation of cardiac troponin I as a marker of ischemic severity Sample size calculation for degraded cardiac troponin study Sustaining transfers through affordable research translation (START) Disease severity assessment and the impact on choice of induction Collaborative approach in child and youth mental health Patient assessment tool for older adults Biologic DMARD Prescribing Improving health outcomes together PRECISION RheumDash W21 collaboration Derm Rheum Educational Tool for Autoimmune Manifestations (DREAM) Pregnancy in RA Rheumatoid Arthritis Biologic/Non Biologic RA Risk Reduction ON TRAAC with Patient Rapport ON TRAAC Using community engagement to define health research priorities in maternal-child and family health for the community setting esACS Substudy SWI — Vancomycin Sternal Wound esACS Study E-CHANGE

PROJECT

- 134. Hemiarch vs extended arch in aortic dissection a systematic analysis by randomized trial (HEADSTART)
- 135. Contemporary practice in renal replacement therapy
- 136. Bioethics and consciousness decision making
- 137. Multi-view Three-Dimensional Fusion Echocardiography Using a Novel Respiratory Tracking Technique
- 138. Tracking delirium in critical care
- 139. Bone fracture in patients with hemophelia
- 140. Public health initiative in the community
- 141. Immunization in alive organ transplant patients
- 142. Improving quality of care in Sturgeon hospital
- 143. Experience of parents and children with neurodevelopment disorders
- 144. Effect of "healthy" dark chocolate on BP, metabolomes
- 145. Course design
- 146. Telehealth in rural patients with CKD
- 147. Effects of an ICU Diary on PTSD Symptom
- 148. Patient perception of certain aspects of colorectal cancer treatment
- 149. C-STOP
- 150. COPD treatment and management in the community
- 151. Medication Risk Assessment Survey
- 152. e-HEALS
- 153. FORCAST
- 154. RAPPORT
- 155. RAPPORT Newfoundland
- 156. Novel clinical trials in islet and stem cell transplantation, restoration of immune tolerance and beta cell regeneration
- 157. BETTER WISE
- 158. Advancing provider use of collaborative goal-setting and patient-reported measure in community rehabilitation settings in Alberta
- 159. Treatment of resistant depression
- 160. Adolescent and family mental health
- 161. Colorectal cancer questionnaire
- 162. RAPPORT Calgary
- 163. ENCOMPASS
- 164. Evaluation Framework of the Cardiovascular Health and Stroke....
- 165. What is the utility of mycobacterial urine cultures?
- 166. Critical Care Strategic Clinical Network....
- 167. Exoskeletal assisted walking in acute rehab following spinal cord injury
- 168. Community pharmacist intervention in chronic diseases
- 169. Effect of STEEPO method of handover on MTU....

PRINCIPAL INVESTIGATORS/ CO-INVESTIGATORS/PROJECT MANAGERS

Kotha, V

Kutsogiannis, J

Lamb, C

Lamb, T

LaPierre, L

Lee, A

Lee, K

Lee, N

Leon, H

Leung, B

Lewanczuk, R

Lindberg, M

Lunney

MacDonald, G

MacDonald, K

Majumdar, S / Beaupre, L

Makhinova, T

Makowsky, M

Makowsky, M/Cor, K

Maksymowych, W

Maksymowych, W

Maksymowych, W

Malcolm, A

Manca, D

Manhas, K

Mann, U

Marsh, R

Marshall, D

Martin, L

McBrien, K McEwan, M

McFarlane, A

McIntosh, C

McIntosh, K

Michail, K

Minhas, R

APPENDIX-A

PROJECT	PRINCIPAL INVESTIGATORS/ CO-INVESTIGATORS/PROJECT MANAGERS
170. ABLE - Thrombosis	Mitchell, L
171. BMS Biomarkers	Mitchell, L
172. C17 Project	Mitchell, L
173. Bariatric Clinic	Modi
174. Immunoglobulin replacement therapy in patients with COPD	Mohydeen, S
175. Surgical decision making in the management of metastatic bone disease	Monument, M
176. Inflammatory Arthritis CV Risk (RxIALTA)	Morgan, A
177. Renal Oxygenation	Morgan C
178. Community family physician, Xenon gas foam echosclerotherapy	Morison, N
179. Rheum4U	Mosher, D/Devoe, D/Emrick, A/Barber, C
180. Rheum4U pediatrics	Mosher, D
181. Project INSPIRE: Integrated Screening Pathways in Primary Care	Mosli, M
182. Smart-e-Pants	Mushahwar, V/Chan, Ming/Dukolow, S/Zygun, D
183. Specific intervention for the rehabilitation of walking after SCI: Role of the $$ arms	Mushahwar, V
184. Provincial patient registry for lymphedema and lymphatic disorders	Narine, K
185. Mutual maintaingin mechanisms underlying the co-occurrence of PTSD and chronic pain in youth	Noel, M
186. Pediatric malnutrition screening	Norton, L
187. Stress in new immigrant mothers	Nwoke
188. RAPPORT - Biologics	Ohinmaa, A/Institute of Health Economics
189. Outcomes of diabetes management by pharmacists: The RxING Registry	Okada, H
190. Establishing the role of specialized mask figging in adherence to non-invasive ventilation in children	Olmstead, D
191. EVOLUTION	Padwal, R
192. Technomed	Padwal, R
193. Hypertension Clinic Registry	Padwal, R
194. Improving Post Discharge Care after AKI	Pannu, N
195. REPOSE	Papathaassoglou, E
196. SETS – Schroth Exercise - Scoliosis	Parent, E
197. Elderly patients with obesity and osteoarthritis	Park, E
198. Understanding barriers to diabetic foot examination for patients and primary care providers	Parsons, L
199. Nurse practitioner role in palliative care	Pasiorowski, A
200. Model of care for sleep-disordered breathing	Pendharkar, S
201. Intranasal Insulin for HIV-associated dementia	Power, C
202. ABLE - Cisplatin and Hearing loss	Rassekh, R
203. ABLE - Clinical Trial - Prevention of Hearing Loss	Rassekh, R.
204. Mobili-T (portable swallowing therapy system)	Rieger, J

Riley, N

205. Prevention of fetal alcohol spectrum disorder by the use of technology

PROJECT	PRINCIPAL INVESTIGATORS/ CO-INVESTIGATORS/PROJECT MANAGERS
206. Evaluating the effectiveness of a patient navigator service	Ryan, L
207. Cystic Fibrosis	Saad, E
208. Antibiotics in Cystic Fibrosis	Saad, E/Brown, N
209. Lower Urinary Tract Symptoms Screening	Sadowski, C
210. LUTS Fall Prevalence	Sadowski, C
211. LUTS Management Algorithm	Sadowski, C
212. Medication management in older adults	Sadowski, C
213. Feasibility of a community pharmacy intervention for lower urinary tract symptoms	Sadowski, C
214. 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	Samuel, S
215. PIAAF	Sandhu, R / McAlister, F
216. ABLE	Schultz, K
217. Radiology residents burnout	Shiau, G
218. Prebiotics vs Probiotics Patient Knowledge	Silva, M
219. Mystery CRT	Sivakumaran, S
220. RAFT	Sivakumaran, S
221. Nurse Practitioner Management of AF	Smigorowsky, M
222. Nurse Practitioner Management of MS	Smyth, P
223. Impact of older age on the tolerability and toxicities of adjuvant chemotherapy	Soleimani, M
224. Acquired hemophilia: clinical characteristics and management	Sun, L
225. Flare ups in patients with IBD	Sutton, R
226. ANSd	Tandon, P
227. A Pilot Randomized Control Trial Comparing the BRECONDA with the Healthwise Breast Reconstruction Decision Aid	Temple-Oberle, C
228. Breast reconstruction surgery	Temple, C
229. EVADE	Tomczak, C
230. Population approach to improving hypertension management in the community using pharmacists' advance scope of practice in Alberta	Tsuyuki, R
231. RxEACH Registry	Tsuyuki R / Al Hamarneh Y
232. RxEACH Mobile App	Tsuyuki R/Al Hamarneh Y
233. RxEACH Risk Calculator	Tsuyuki R / Al Hamarneh Y
234. New Brunswick UTI	Tsuyuki R / Beahm N
235. RxING Registry	Tsuyuki, R / Okada, H
236. Glycemic control after CABG in patients with type 2 diabetes	Turgeon, R
237. Examining the effect of knowledge translation interventions on uptake of evidence-based practice by health care aides in long-term care and assist- ed-living facilities	Tworek, K
238. Post AF ablation pilot study	Valtuille, L

APPENDIX-A

PROJECT

239. COMPACT Van Diepen, S 240. CV ICU Readmission Van Diepen, S 241. SPA-LTC Initiative Venturato, L 242. Immunoglobulin replacement therapy in patients with COPD and Hy-Vliagoftis, H / Mohydeen, S pogammaglobinemia; a retrospective study Walters, B 243. Community, inflammatory bowel disease registry Watson, J 244. Oncocytic adrenal neoplasms 245. Clinical characteristics and determinants of outcomes of pulmonary hyper-Weatherald, J tension patients in Alberta 246. Breast cancer survivors preferences Webb, C 247. Prediction Rule for ACL Tears Whittaker, J 248. Improving the clinical identification of ACL tears.... Whittaker, J 249. Radiographic Predictors of Vent Drain Misplacement Wilson, M / Emery 250. Alberta ambulatory pulmonary embolism collaboration Wu, C 251. Major bleeding with low-molecular-weight heparins in dialysis patients

255. Joint Thermography

252. VTE Validation Study

256. Aligning quality improvement curricula with competency-based education

257. Syrian refugees innovation clinics

253. Quebec study administrative data, DVT

258. Clinical & community engagement in gestational diabetes education

254. Developing, implementing, and evaluating in-hospital practices to pro-

mote physical activity in children undergoing treatment for cancer

259. Practice tool for hormonal contraception for pharmacists

260. Drug induced osteoporosis

261. ABLE - Cisplatin and Kidney Disease

262. Assessing quality of KT models

PRINCIPAL INVESTIGATORS/ CO-INVESTIGATORS/PROJECT MANAGERS

Wu, C

Wu, C

Wu, C/Aloutabi, G

Wurz, A

Yacyshyn, E

Yacyshyn, E

Yanicki

Yeung, R

Yuksel, N

Yuksel, N

Zappitelli, M

Zimmermann, G

APPENDIX B: INVESTIGATORS SERVED

HTTPS://WWW.EPICORE.UALBERTA.CA/HOME/APPENDIX-B-1718/

1.	Abbasi, M	40.	Boule, N	79.	Copeland, J	118.	Fairgrieve-Park
2.	ABBOTT/Abbvie	41.	Bowering, C	80.	Coulden, R	119.	Fedorak, R
3.	Abdul, A	42.	Braam, B	81.	Couplan, N	120.	Fedorak/Alistair
4.	Ackman, M	43.	Brandwein, J	82.	Craig, S	121.	Fodor, G
5.	Addison, O	44.	Bratu, I	83.	Culos-Reed, N	122.	Fox, R
6.	Adelhay, N	45.	Brisbois, T	84.	Cummings	123.	Francis, G
7.	Agyapong, V	46.	Brockway, M	85.	Cuvelier, G	124.	Frank, C
8.	Alagiakrishnan, K	47.	Broderick, G	86.	Dafoe, W	125.	Freedman, S
9.	Al Hamarneh, Y	48.	Broule, N	87.	Davenport, M	126.	Fujiwara
10.	Allen, M	49.	Brown, N	88.	Davidson, S	127.	Fuller, M
11.	Alotaibi, G	50.	Buldoc, F	89.	Davis, P	128.	Fung, C
12.	Anand, V	51.	Bullard, M	90.	Davyduke, T	129.	Galvin, D
13.	Anderson, C	52.	Bungard, T	91.	Deane	130.	Gammel, C
14.	Anderson, S	53.	Burt	92.	Devoe, D	131.	Garcia, L
15.	Anzarut, A	54.	Burton, D	93.	Dewart, K	132.	Garneau Lung Lab
16.	Armstrong, P	55.	Burton, J	94.	Dhaliwal, R	133.	Garros, D
17.	Ashton, T	56.	Butalia, S	95.	Diamant, M	134.	Ghamdi, M
18.	Awosoga	57.	Butcher, K	96.	Dieleman, L	135.	Gibb, R
19.	Bagshaw, S	58.	Butler, C	97.	Dillane, D	136.	Giese-Davis, J
20.	Bailey, D	59.	Cadili, A	98.	Dong, K	137.	Gilfoyle, E
21.	Bakal, J	60.	Cameron, J	99.	Drummond, J	138.	Gillespie, W
22.	Baqays, A	61.	Campbell, D	100.	Drummond, N	139.	Gilmour, L
23.	Barber, C	62.	Campbell-Scherer, D	101.	Dukolow, S	140.	Ginn, C
24.	Beahm, N	63.	Carbonneau, M	102.	Dumper, J	141.	Gniadecki, R
25.	Beard, K	64.	Carr, F	103.	Duttchen, K	142.	Godziuk, K
26.	Beaupre, L	65.	Carrie, A	104.	Dziwenka, M	143.	Goez, H
27.	Becher, H	66.	Casey, L	105.	Dyck, J	144.	Gonzales
28.	Bedard, E	67.	Cervera, C	106.	Dytoc, M	145.	Gragasin, F
29.	Bell, N	68.	Chan, C	107.	Dziegielewski, P	146.	Graham, M
30.	Bell, R	69.	Chan, Michael	108.	El Bialey, T	147.	Graham, T
31.	Bellerose, D	70.	Chan, Ming	109.	Emery, D	148.	Gramlich, L
32.	Bello, A	71.	Chao, J	110.	Emrick, A	149.	Green, T
33.	Benzies, K	72.	Chari, R	111.	Escudar, J	150.	Grinman, M
34.	Belmurugiah, N	73.	Chowdhury, R	112.	Estabrooks, C	151.	Gross, D
35.	Beveridge, J	74.	Chowdhury, T	113.	Eurich, D	152.	Guenther, C/Anzarut, A
36.	Billington, E	75.	Choy, J	114.	Evaschesen, C	153.	Guerra, G
37.	Bolduc, F	76.	Chubaty, A	115.	Everaert, D	154.	Guirguis, M
38.	Bomhof	77.	Collins-Nakai, R	116.	Ezekowitz, J	155.	Gyenes, G
39.	Bosonea, AM	78.	Cooper, E	117.	Fabreau, G	156.	Hall, J, Hall, K

APPENDIX-B

157. Hanna, J	196. Keys, E	235. Majumdar, S	274. Mitchell, L
158. Haubrich, S	197. Khan, N	236. Makaroff, C	275. Modi
159. Haykowsky, M	198. Khani-Hanjani, A	237. Makhinova, T	276. Mohydeen, S
160. Hazelwood, G	199. Kimber, S	238. Makowsky, M	277. Molzahn, A
161. Hazenbiller, O	200. King-Shier, K	239. Makskmowych, W	278. Monument, M
162. Hirji, A	201. Klein, D	240. Malcolm, A	279. Morgan, A
163. Hirota, C	202. Kopolovic, I	241. Man, P/Sin, D	280. Morgan, C
164. Ho, C	203. Koshman, S	242. Manca, D	281. Morison, N
165. Hossini, F	204. Kotha, V	243. Manhas, K	282. Morrissey, A
166. Houle, S	205. Kroeker, K	244. Mann, U	283. Mosher, D
167. Hudson, A	206. Kumar, A	245. Manns, B	284. Mosli, M
168. Hughes, C	207. Kutsogiannis, J	246. Marin, A	285. Murray, A
169. Hunt, I	208. Lai, F	247. Marra, C	286. Mushahwar, V
170. Huynh, H	209. Lamb, C	248. Marrie, T	287. Nanda, A
171. Hwang, P	210. Lamb, T	249. Marsh, R	288. Narine, K
172. Ickert, C	211. LaPierre, L	250. Marshal, D	289. Nee, A/Paterson, I
173. Institute of Health Economics	212. Lazaarescu, A	251. Martin, L	290. Newman, S
174. Isaac, DM	213. Lee, A	252. Mason, A	291. Noel, M
175. Jacka, M	214. Lee, K	253. Masterson, T	292. Norris, C
176. Jackson, M	215. Lee, M	254. May, L	293. Norton, L
177. Janzen, W	216. Lee, N	255. Mayers, I	294. Nwoke
178. Jean-Anne	217. Lee, T/Fedorak, R	256. McAlister, F	295. O'Connell, D
179. Jeerakathil, T	218. Lehr, E	257. McBrien, K	296. Ohinmaa, A
180. Joffe, M	219. Leon, H	258. McEwan, M	297. Okada, H
181. Johnson, JA	220. Leung, B	259. McFarlane, A	298. Olmstead, D
182. Johnston, B	221. Lewanczuk, R	260. McGhan, S	299. Olson, D
183. Jones, A	222. Li, Suqing	261. McIntosh, C	300. Oudit, G
184. Jones, B	223. Lin, A	262. McIntosh, K	301. PACU-RAH
185. Kaba, A	224. Lindberg, M	263. McKenzie, N	302. Padwal, R
186. Kalra, S	225. Logsetty, S	264. McKinnon, G	303. Pannu, N
187. Kanji, H	226. Long, R	265. McLean, D	304. Pantano, A
188. Kao, D	227. Lu, C	266. McMurtry, S	305. Papathansoglou, E
189. Kaplan, G	228. Lunney	267. McNeely, M	306. Parent, E
190. Katz, S	229. Ma, M	268. Michelakis, E	307. Park, E
191. Kassiri, J	230. MacDonald, G	269. McNeil, J	308. Parsons, L
192. Kaufman, J	231. MacDonald, K	270. Metz	309. Pasiorowski, A
193. Keeling, S	232. Mackie, A	271. Miciak, G	310. Pate
194. Kendle, D	233. Madsen, K	272. Michail. K	311. Patel
195. Keshteli, A	234. Maier, E	273. Minhas, R	312. Paterson, I

313.	Pauly, R	352. Sheldon, S	391. Tsui, B 430. Yanicki	
314.	Pearson, G	353. Shiau, G	392. Tsuyuki, R 431. Yeung, R	
315.	Pehowich, M	354. Shibata, M	393. Turgeon, R 432. Yuksel, N	
316.	Pendharkar, S	355. Sia, W	394. Tworek, K 433. Zappitelli, M	
317.	Pharis	356. Siddiqi, Z	395. Tymchak, W 434. Zhu, J	
318.	Plint, P	357. Siffeldeen, J	396. Tyrrell, B 435. Zimmermann	n, G
319.	Power, C	358. Silva, M	397. Tyrrell, G 436. Zuk, D	
320.	Pretorius, V	359. Simpson, S	398. Tyrrell, L 437. Zygun, D	
321.	Quan, H	360. Sinclair, D	399. Urquhart, G	
322.	Rajesky, A	361. Singh, G	400. Valtuille, L	
323.	Rashiq, S	362. Sivakumar, L	401. Van Diepen, S	
324.	Rassekh, R	363. Sivakumaran, S	402. Van Haaften, D	
325.	Ravid, N	364. Slaughter, S	403. Van Zanten, S	
326.	Reid, S	365. Smigorowsky, M	404. Venturato, L	
327.	Rieger, J	366. Smyth, P	405. Vethanayagam, D	
328.	Riley, Nicole	367. Solimani, M	406. Vliagoftis, H	
329.	Robinson, J	368. Somily, A	407. Vohra, S	
330.	Rolfson, D	369. Soo, I	408. Wagg, A	
331.	Rolfson, D	370. Spoor, M	409. Walters, B	
332.	Romney, J	371. Spencer, T	410. Walters, S	
333.	Rosenthal, M	372. Steiner, I	411. Wang, S	
334.	Ross, D	373. Sun, L	412. Warneke, L	
335.	Rowe, B	374. Sutton, R	413. Watson, J	
336.	Rudolf, F.	375. Svenson, L	414. Weatherald, J	
337.	Russell, A	376. Tandon, P	415. Webb, C	
338.	Ryan, E	377. Taylor, J	416. Webber	
339.	Ryan, L	378. Temple, C	417. Weis. E	
340.	Saad, E	379. Temple-Oberle, C	418. Wells, H	
341.	Sadowski, C	380. Teo, K	419. Welsh, R	
342.	Sadowski, D	381. Thompson, A	420. Whiting, J	
343.	Samuel, S	382. Thomson, A	421. Whittaker, J	
344.	Sandhu, R	383. Tomczak, C	422. Wiebe, S	
345.	Schindel, T	384. Tonelli, M	423. Wilson, K	
346.	Schultz, K	385. Torrible, S	424. Wilson, M	
347.	Schulze, C	386. Toth, E	425. Wong, J	
348.	Shanks, M	387. Townsend, D	426. Wright	
349.	Shapiro, A	388. Toy, J	427. Wu, C	
350.	Sharma, A	389. Tredget, T	428. Wurz, A	
351.	Sharpe, H	390. Triska, O	429. Yacyshyn, E	

APPENDIX-C

APPENDIX C: EPICORE CENTRE PUBLICATIONS – JANUARY, 2017 TO MARCH, 2018 HTTPS://www.epicore.ualberta.ca/home/appendix-c-1718/

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APPENDIX-C

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