

# Department of Evaluation and Research Services

A Year in Review: 2016-2017 Report



## Highlights

### New Initiative Launched:

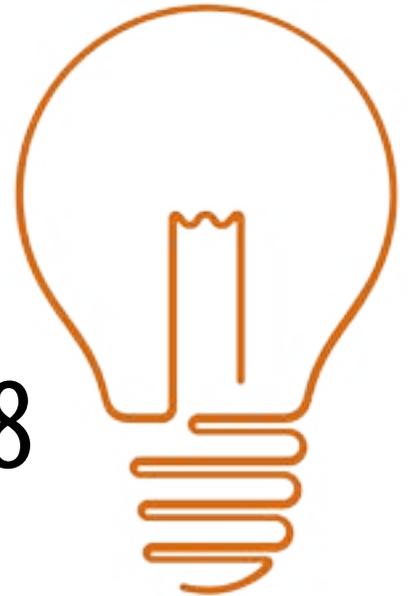
The BC SUPPORT Unit Fraser Centre was launched in January 2017, in partnership with Simon Fraser University. The Fraser Centre supports patient-oriented research by engaging patients as partners on research teams.

**\$8,405,456**

Cumulative external research funding

**12** Studies funded by external funding agencies for a total value of

**\$2,609,478**



**145,619**

Consent to Contact Research Participants

## Facts

Fostering a Culture of Curiosity in a Climate of Spirited Scientific Inquiry.

ONE

**35,160**

Electronic downloads for reference publications overseen by Library Services

FOUR

**57**

Research and evaluation learning opportunities: workshops, Researchers' Cafes, and Research Week

SEVEN

**14**

Academic researchers became affiliated

TWO

**300**

Studies were conducted monthly

FIVE

Fraser Health Research Ethics Board Reviews

**106**

New research studies

EIGHT

**30,430**

Patients and clients were research participants (including their data)

THREE

Library Services ROI

**\$1.99**

for every

**\$1.00**

SIX

**193**

Fraser Health researchers conducted clinical, population health and health services research

NINE

DERS Methodology Unit

**420**

Research project consultations

**12**

Evaluation consultations

**735**

Literature searches

# Fraser Health Research Kudos

## ABORIGINAL HEALTH

### Leslie Bonshor

- \$5,000 Canadian Institutes of Health Research (CIHR) Team Grant  
“Land Based Resiliency in First Nations Youth: This Is Who We Are”

## ANAESTHESIA & LIBRARY SERVICES

### Dr. Laura Duggan, MD & Brooke Ballantyne

### Scott

- Co-authors for the article “Transtracheal Jet Ventilation in the ‘Can’t Intubate Can’t Oxygenate’ Emergency: A Systematic Review”. Published in the [British Journal of Anaesthesia](#). This article was recognized in the Best of 2016 issue of the British Journal of Anesthesia.

## CE&Q

### Dr. Fabio Feldman, PhD

#### Clinical Effectiveness & Quality

- \$93,296 Allied Health Research Grant Kidney Foundation of Canada  
“The Effects of a Pre-Dialytic Low-Intensity Exercise Program on the Health Outcomes of Elderly Haemodialysis Patients”

## CRITICAL CARE

### Dr. Steve Reynolds, MD

- \$250,000 Royal Columbian Hospital Foundation Professorship in Critical Care at Simon Fraser University. Five year professorship to support Dr. Reynold’s research collaboration with Lungpacer Medical Inc. to advance the Lungpacer Diaphragm Pacing System.

## END OF LIFE CARE

### Dr. Neil Hilliard, MD

- \$40,000 TechValueNet Catalyst Grant  
“Integrated Approach to Palliative Care in Acute Care”

## FAMILY PRACTICE

### Dr. Lynn Farrales, MD

- \$60,828 Vancouver Foundation Test Grant  
“Community Based Program to Support Women and Families in Pregnancies After Stillbirth”

## HOME HEALTH

### Dr. Cheryl Beach, PhD

- \$15,000 Michael Smith Foundation for Health Research C2 Grant  
“Technologies to Support Aging in Place in Assisted Living”

## MENTAL HEALTH & SUBSTANCE USE

### Dr. David Erickson, PhD

- \$1,661,004 Ministry of Social Development and Social Innovation Grant  
“Thinking Skills at Work”

### Dr. Hem Phaterpekar, MD

- \$103,399 Specialist Services Committee Grant  
“A Pilot Study of the Effectiveness of a Suicide Prevention Video Tool to Reduce the Incidence of Active Suicide Behavior in Individuals with Psychiatric Illness”

## ORTHOPAEDICS

### Dr. Darius Viskontas, MD

- \$62,000 Stryker Grant-in-Aid  
“INSURT: Infrapatellar versus Suprapatellar Reamed Intramedullary Nailing for Fractures of the Tibia”

## P&PH - EHS

### Dr. Goran Krstic, PhD

#### Population & Public Health - Environmental Health Services

- Author of “Asthma Prevalence Associated with Geographical Latitude and Regional Isolation in the United States of America and Australia” [link](#)
- Among the top 10% of the most cited Public Library of Science articles

# Adoption and Uptake

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## Emergency Medicine Research Impact

### What?

- Eagle Ridge and Royal Columbian Emergency Physicians evaluated nurse initiated x-ray orders for isolated extremity injuries to determine accuracy of the assessment for an x-ray, appropriateness of the image and appropriateness of additional x-ray orders. *PI: Dr. Peter MacDonald, MD, Co-investigators: Dr. Adam Lund, MD, and Dr. Kathryn Morrison, MD*

### Then What?

- For patients 18 and older: 94.6% agreement between emergency physicians and nurses. Nurse over-ordering - 5.4%; under-ordering - 7.5%; and appropriateness of image 97.6% (n.b. similar results for 17 and younger).

### Now What?

- Nurse initiated x-ray orders are now implemented across Fraser Health Emergency Departments for isolated extremity injuries.

## Older Adult Research Impact

### What?

- Studied if a new model for a Fracture Liaison Service (FLS) involving a dedicated case coordinator could break the cycle of recurrent fractures by identifying low trauma fracture patients when they presented to the Peace Arch Hospital Emergency Department/Cast Clinics in order to initiate appropriate investigation and treatment. *PI: Dr. Sonia Singh, MD and Co-Is: Dr. Fabio Feldman, PhD, Kathleen Friesen, Ming Leung, Liz da Silva, Ann Davidson, Valerie MacDonald, Dr. Kerstin Gustafson, MD, Dr. David Whitehurst, PhD, Larry Funnell, and Dr. Vicky Scott, PhD*

### Then What?

- Secondary Fracture prevention guideline care was achieved in 76% of high risk patients in the FLS program compared to 22% of high risk patients in the usual care group.

### Now What?

- A novel FLS has been implemented in Peace Arch Hospital.
- Satisfaction with results is leading to an exploration of feasibility for expanding the service to Royal Columbian Hospital.

## Palliative Care Research Impact

### What?

- Studying if the routine use of electronically-administered quality of life (QOL) and healthcare experience assessment instruments (via a hand held tablet) for older adults in palliative homecare nursing will improve the quality of care received. *PI: Dr. Rick Sawatzky, PhD (Trinity Western University); Fraser Health team members: Dr. Neil Hilliard, MD, Lisa Zetes-Zanatta, Barbara McLeod, and Dr. Jean Warneboldt, MD*

### Then What?

- Use of the hand held tablet found to be simple, easy to use and provided increased speed of access to information, increased completion of assessments at multiple time points, ability to see trends in items over time, and potential decrease in the amount of paper charting.

### Now What?

- Ongoing research to integrate use of electronic quality of life assessments in 6 Fraser Health sites as the basis for enhancing person-centred care, self-management and shared decision making in home health services for older adults and their family caregivers.

# Adoption and Uptake

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## Multiple Sclerosis Research Impact

### What?

- A multi-site randomized clinical trial was implemented to study the effectiveness of the antibiotic minocycline (with immune-modulating properties) in reducing the risk of patients with an early demyelinating event of the spinal cord becoming diagnosed with multiple sclerosis (MS). *The Fraser Health site was at the Burnaby Hospital MS Clinic, led by PI: Dr. Galina Vorobeychik, MD. (Canadian PI: Dr. Luanne Letz, MD, University of*

*Calgary)*

### Then What?

- The risk of conversion was significantly lower with minocycline than with placebo over 6 months, but not over 24 months.

### Now What?

- Published in *The New England Journal of Medicine: Trial of Minocycline in a Clinically Isolated Syndrome of Multiple Sclerosis*. 376; 22, June 1, 2017

# Notable Internal Awards

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## STRATEGIC PRIORITIES

## GRANTS

- **Susan Lee** “Implementation of a Perioperative Smoking Cessation Bundle in a Tertiary Care Hospital – Can Better Timing Improve Outcomes?” \$10,000 funding from Royal Columbian Hospital Foundation
- **Dr. George Medvedev, MD et al.** “Automation of CT-based Hemorrhage Volume Assessment for Improved Clinical Diagnosis and Intervention Outcomes in Hemorrhagic Stroke” \$10,000 funding from Surrey Hospital and Outpatient Centre Foundation

## SEED GRANTS

- **Erin Henthorne** “In From the Cold: A Qualitative Investigation of the Service Impact, Needs and Voices of Homeless Patients in the Fraser Health Region” \$5,000 funding from Mental Health and Substance Use
- **Fraea Renaerts** “System-Based Barriers to Accessing Emergency Care Among Women Experiencing Suspected or Confirmed Sexual Assault Who Use Drugs and are Street-Engaged” \$5,000 funding from Professional Practice
- **Anne Todd** “Perceptions of Food Retailers as Potential Public Health Partners in Reducing Food Insecurity” \$5,000 funding from Population and Public Health

# Research Ethics

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## Improving Efficiency of Reviews

The initial ethics application form now includes Fraser Health Privacy’s Data Access Application. This means that researchers only fill out one form in order to obtain access to data for their research studies.

## Board Members: On the Move

Dr. Aaron Tejani, PharmD, stepped down from the board after providing stellar service as the Pharmacy Services representative for the past 12 years. We welcome Dr. Dennis Orth, PhD, Laboratory Services, as our newest clinical member of the Research Ethics Board.