

## DMNB QUARTERLY REPORT (RESEARCH)

**Q3: October – December 2020**

### RESEARCH

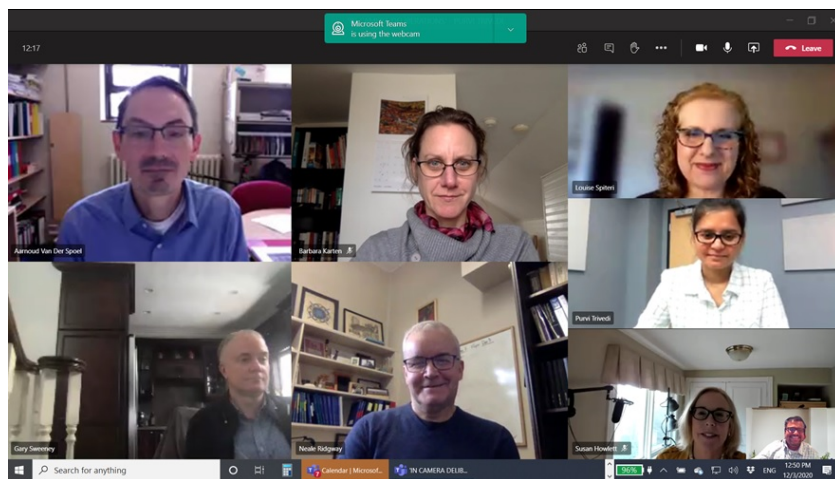
#### General Update

In December 2020, Purvi Trivedi successfully passed her doctoral thesis defense. DMNB's first graduate student, Purvi joined Dr. Thomas Puliniikunnil's laboratory in September 2013 before there was even infrastructure in place to conduct research. According to Dr. Puliniikunnil, "Purvi's diligence, work ethic, and integrity is exemplary" and she "played a vital role in establishing the foundations of DMNB's discovery and biomedical research program."

She completed her master's degree at DMNB in September 2016 and now her PhD in December 2020. She will graduate in Spring 2021.

This quarter continued to be an exciting one in Dr. Puliniikunnil's laboratory with Dr. Dipsikha Biswas completing her postdoctoral fellowship, and the recruitment of postdoctoral fellow Dr. Sundaram Pakkiriswami and new laboratory technician Lauren Mahon Hodgins.

Dr. Keith Brunt began a new appointment as Board President of the Heart & Stroke Foundation of New Brunswick in December 2020 and DMNB researcher Dr. David Lewis was announced as one of the recipients of 2020's CAEP Emergency Physician of the Year – Urban. This annual award recognizes excellence in the specialty of emergency medicine and is awarded to a physician who has made outstanding contributions to the field in a number of areas.



PURVI TRIVEDI  
BSc (Pharmacy), Rajeev Gandhi University, India, 2004  
MSc (Pharmacology), University of Pune, India, 2006  
MSc (Biochemistry), Dalhousie University, 2016

DEPARTMENT OF BIOCHEMISTRY AND  
MOLECULAR BIOLOGY

TITLE OF THESIS: ROLE OF TRANSCRIPTION FACTOR EB  
(TFEB) IN CARDIAC HEALTH AND  
DISEASE

TIME/DATE: 10:00 am, Thursday, December 3, 2020  
PLACE: Online: Microsoft Teams

EXAMINING COMMITTEE:

Dr. Gary Sweeney, Department of Biology, York University (External Examiner)

Dr. Susan Howlett, Department of Pharmacology, Dalhousie University (Reader)

Dr. Neale Ridgway, Departments of Pediatrics and Biochemistry & Molecular Biology, Dalhousie University (Reader)

Dr. Aarnoud Van der Spoel, Departments of Pediatrics and Biochemistry & Molecular Biology, Dalhousie University (Reader)

Dr. Thomas Puliniikunnil, Department of Biochemistry and Molecular Biology, Dalhousie University (Supervisor)

DEPARTMENTAL REPRESENTATIVE: Dr. Barbara Karten, Biochemistry and Molecular Biology, Dalhousie University

CHAIR: Dr. Louise Spiteri, PhD Defence Panel, Faculty of Graduate Studies

A screenshot from Purvi Trivedi's PhD defense.

## Metrics

### Funding Awarded to Principal Investigators (PIs)

DMNB's Assistant Dean of Research, Dr. Paul Atkinson, received **\$13,000** from the New Brunswick Innovation Foundation (NBIF) COVID Research Fund.

Dr. Daniel Dutton was awarded **\$21,720** also through the NBIF COVID Research Fund for his project entitled "The half-life of public health messages on infection control behaviour in the general public."

### Principal Investigator (PI) Peer-Reviewed Publications

- **Atkinson, Paul** – 1 publication
  - **Atkinson, P.** Just three things.... *Can J Emerg Med* (2020). <https://doi.org/10.1007/s43678-020-00027-1>
- **Brunt, Keith** – 2 publications
  - Legere SA, Haidle ID, **Brunt KR**, Legare JF, Marshall JS<sup>†</sup> Increased mast cell density is associated with decreased fibrosis in human atrial tissue. (**Journal of Molecular Cellular Cardiology**, 202, Dec (149:15-26).
  - Foster AJ, Marrow J, Allwood MA, **Brunt KR**, Simpson JA<sup>†</sup> Applications of a novel radio-telemetry method for the measurement of intrathoracic pressures and physiological rhythm in freely behaving mice. (**Journal of Applied Physiology** 2020, Oct (129(4):992-1005).
- **Kienesberger, Petra & Pulinilkunnil, Thomas** – 2 co-authored publications
  - Trivedi PC, Bartlett JJ, Mercer A, Slade L, Surette M, Ballabio A, Flibotte S, Hussein B, Rodrigues B, **Kienesberger PC, Pulinilkunnil T.** Loss of function of transcription factor EB remodels lipid metabolism and cell death pathways in the cardiomyocyte. *Biochim Biophys Acta Mol Basis Dis.* 2020 Oct 1;1866(10):165832. doi: 10.1016/j.bbadis.2020.165832.
  - Biswas D, Dao KT, Mercer A, Cowie AM, Duffley L, El Hiani Y, **Kienesberger PC, Pulinilkunnil T.** Branched-chain ketoacid overload inhibits insulin action in the muscle. *J Biol Chem.* 2020 Nov 13;295(46):15597-15621. doi: 10.1074/jbc.RA120.013121.
- **Pulinilkunnil, Thomas** – 2 publications
  - Yeung PK, Mohammadzadeh S, Akhoundi F, **et al.** Hemodynamic Assessment and in vivo Catabolism of Adenosine 5'- Triphosphate in Doxorubicin or Isoproterenol-induced Cardiovascular Toxicity. *Drug Metabolism Letters.* 2020 Oct. DOI: 10.2174/1872312814666201022103802.
  - Biswas D, **Pulinilkunnil T.** Disrupted branched-chain amino acid catabolism impair cardiac insulin signaling and is associated with adverse cardiometabolic outcomes.

### Presentations by Principal Investigators (PIs)

Dr. Daniel Dutton gave four online presentations at the Canadian Public Health Association (CPHA) annual conference that took place from 14-16 October 2020. These presentations were:

1. Dutton DJ, Jadidzadeh A. "The potential impact of universal dental care of people experiencing homelessness in Alberta." Public Health 2020 (Canadian Public Health Association annual conference). October 14-16, 2020. Online.
2. Dutton DJ, Liu T, Guo X, Matheson J. "Food insecurity as a proxy poverty line compared to the Market Basket Measure (MBM)." Public Health 2020 (Canadian Public Health Association annual conference). October 14-16, 2020. Online.
3. Liu T, Tarasuk V, Emery JCH, Dutton DJ. "Tobacco Use and Food Insecurity in Canada." Public Health 2020 (Canadian Public Health Association annual conference). October 14-16, 2020. Online.
4. Liu T, Dutton DJ. "A Gender-focused Update on the Effect of Provincial Spending on Social Services and Health Care on Population Health in Canada." Public Health 2020 (Canadian Public Health Association annual conference). October 14-16, 2020. Online.

Dr. Keith Brunt collaborated on four virtual trainee presentations (abstracts):

1. Sarkar S, MacLeod J, Hassan A, Brunt KR, Legare JF. Improving the care of frail or vulnerable patients undergoing cardiac surgery. **American Heart Association** Circulation 142(Suppl\_3: A15964)
2. Pierdoná TM, Martin A, Obi PO, Seif S, Bydak B, Eadie A, **Brunt K**, McGavock JM, Sénéchal M and SALEEM A. Extracellular vesicles (EVs) as predictors of individual response to exercise in obese youth. 16th **Annual Child Health Research Days**, Oct 2020, Winnipeg, MB. (poster; virtual conference due to COVID-19).
3. MacMillan K, Melville S, Fournier A, Alexiadis-Brown P, Dutton D, **Brunt KR**. Stay on MD: Recruitment and retention factors for Dalhousie Medicine New Brunswick graduates. Collaborative Health Research Week, 2020
4. Sarkar S, Kent D, Macleod J, Aguilar C, Campbell T, Palmer K, Hassan A, **Brunt KR**, Legare JF. Initial experience with a novel telehealth home-monitoring technological intervention for vulnerable and frail patients undergoing cardiac surgery. **Canadian Cardiovascular Congress**, Edmonton, 2020

Dalhousie Faculty of Medicine New Brunswick Researcher Profile

**Dr. Pamela Jarrett, Associate Professor, Division of Geriatrics, Department of Medicine**  
*Co-Section Chair, Health Services Research, Research Council, DMNB*



As a geriatrician, most of the patients and families Dr. Pamela Jarrett cares for have memory problems related to dementia with the most common cause being Alzheimer’s Disease. Bearing witness to the significant impacts of this disease on the lives of those it affects – as well as their families – inspired in Dr. Jarrett a real passion for research and dementia. In her words, it “is all about how to make a difference for these patients and their families.”

The primary focus of Dr. Jarrett’s research is the complexity of dementia and its impact on both the person along with health and social care systems. She describes this topic as both “extremely interesting” and “absolutely needed as our population ages and we see more people affected every day.”

Most recently, Dr. Jarrett’s dementia-related research has been focused on two main things. The first area is related to the prevention of dementia and what lifestyle changes can be made in mid-life that might have an impact on developing dementia in later life. This research is being co-led by Dr. Jarrett and Dr. Chris McGibbon at the University of New Brunswick

(UNB) Fredericton in conjunction with national researchers in the Canadian Consortium for Neurodegeneration and Aging (CCNA).

The second area of focus is how to improve care for those with dementia in primary care in the community. This work is also in collaboration with CCNA national researchers and international partners. Dr. Jarrett is co-leading this with Dr. Shelley Doucet and Dr. Alison Luke at UNB Saint John. Dr. Jarrett considers herself fortunate to have two large teams of researchers working with her on these projects in New Brunswick and has continued to work on these endeavours throughout the pandemic, modifying the projects to meet the needs of this challenging time.

These two research projects will take two to three years to complete and Dr. Jarrett is hopeful that the findings will lead to real-world results that will prove helpful to New Brunswickers and those beyond our province at risk of developing dementia or living with the disease. She expects further research in this area and a growth of the New Brunswick-based research teams.

According to Dr. Jarrett, the research community in New Brunswick is second to none. She notes how instrumental the New Brunswick Health Research Foundation (NBHRF) has been in supporting her work here in the province and believes they should be commended for their dedication to helping grow research in New Brunswick. In her opinion, these research

opportunities have allowed for a diverse group of professionals and organizations across the province to work with other researchers nationally and internationally.

“It is truly amazing how many people are interested in research in this area,” says Dr. Jarrett, “The interdisciplinary nature of this research has brought engineers, epidemiologists, kinesiologists, dieticians, pharmacists, psychologists, nurses, physiotherapists, policy makers, family doctors, and specialists together to work through all of this. What a privilege.”

Looking ahead at 2021, Dr. Jarret – like everyone else – is very much looking forward to returning to some sort of normalcy. “To be able to sit in a room with family and friends and hug again would be the best day ever,” she shares, “We can all look forward to that again as we continue to move through this challenging time doing the right thing every day, all the time.”

When Dr. Jarrett is not seeing patients or leading research projects, her time with family and friends is what brings her the most joy. Their time spent together during the pandemic remains a definitive silver lining for Dr. Jarrett; although, she has also found solace in weaving and knitting. These hobbies produced several scarves and hats for her loved ones at Christmas this year!

#### Dalhousie Faculty of Medicine New Brunswick Researchers

### **1. Canada East Spine Centre**

#### **AWARDS**

October 2020  
*Runner-up*

Quality Quest Award for the New Brunswick Inter-professional Spine Assessment and Education Clinic.

Awarded by Horizon to:

- In Saint John:
  - Patti Gallagher (Nurse Manager, Neurosciences)
  - Donna Eastwood (Retired Orthopaedic Nurse Associate and Clinical Research Associate at Canada East Spine Centre)
  - Rebecca McCollum (Director of Therapeutic Services)
  - Nancy Carr (Manager of Physiotherapy)
  - Andrew Trecartin (Physiotherapist)
  - Richard Pixao (Physiotherapist)
  - Ellen McCurray (Physiotherapist)
  - Dana El-Mughayyar (Research Coordinator at Canada East Spine Centre and NB-ISAEC Program Coordinator)
  - Amanda Vandewint (Research Administrative Assistant at Canada East Spine Centre and NB-ISAEC Program Assistant Coordinator)
  - Dr. Neil Manson (Orthopaedic Surgeon)
  - Dr. Edward Abraham (Orthopaedic Surgeon)

- In Moncton:
  - Dr. Shawn Comsock (Orthopaedic Surgeon and Representative for Horizon Surgeons)
  - Dr. Charbel Fawaz (Neurosurgeon)
  - Nancy Parker (Executive Director and NB-ISAEC Project Lead)
  - Gwen Grondin (Director of Therapeutic Services)
  - Tara Mann (Manager of Physiotherapy)
  - Pamela Stephenson (Physiotherapist)
  - Jérémie Breau (Physiotherapist)
  - Andrew Ross (Physiotherapist)
  - Ashley Evers (Physiotherapist)
  - Nicole Sears (NB-ISAEC Program Assistant Coordinator)
  - Leslie Brown (Previous NB-ISAEC Program Assistant Coordinator)
  - Gloria Kamba (Previous NB-ISAEC Program Assistant Coordinator)
  - Jill Fox (NB-ISAEC launch assistant)
  - Melissa Stark (NB-ISAEC launch assistant)



*Pictured: Dr. Abraham, Amanda Vandewint, Donna Eastwood, Dr. Manson, Dana El-Mughayyar.*

November 2020  
Won

New Brunswick Health Researchers of the year 2020.

Awarded by the New Brunswick Health Research Foundation to:

- Dr. Edward Abraham (Orthopaedic Surgeon)
- Dr. Neil Manson (Orthopaedic Surgeon)
- Dr. Robert Stevenson (Cardiologist)

- Erin Bigney (Director of Research CESC)
- Eden Richardson (Research Manager CESC)
- Dana El-Mughayyar (Research Coordinator CESC)
- Amanda Vandewint (Research Coordinator CESC)
- Stephen Mundle (Physiotherapist)

## **PUBLICATIONS**

### **Neurosurgery Division**

#### Dr. Attabib (Chief of Neurosurgery)

1. Attabib, N., Kurban, D., Cheng, C. L., Rivers, C. S Bailey, C. S., Christie, S., Ethans, K., Flett, H., Furlan, J. C., Tsai, E. C., & O'Connell, C. (Nov 2020). Factors Associated with Recovery in Motor Strength, Walking Ability, and Bowel and Bladder Function after Traumatic Cauda Equina Injury. *Journal of Neurotrauma*, <https://doi.org/10.1089/neu.2020.7303>
2. Inglis, T., Banaszek, D., Rivers, C., Kurban, D., Evaniew, N., Fallah, N., Waheed, Z., Christie, S., Fox, R., Mac Thiong, J., Ethans, K., Ho, C., Linassi, A., Ahn, H., Attabib, N., Bailey, C., Fehlings, M., Fourney, D., Paquet, J., Townson, A., Tsai, E., Cheng, C., Noonan, V., Dvorak, M. & Kwon B. (Oct 2020). In-Hospital Mortality for the Elderly with Acute Traumatic Spinal Cord Injury *Journal of Neurotrauma* 37:21. <https://doi.org/10.1089/neu.2019.6912>

### **Orthopaedic Surgery Division**

#### Dr. Manson (Orthopaedic Spine Surgeon)

1. Schneider, N., Fisher, C., Glennie, A., Urquhart, J., Street, J., Dvorak, M., Paquette, S., Charest-Morin, R., Ailon, T., Manson, N., Rampersaud, R., & Bailey, C. (Nov 2020). Lumbar degenerative spondylolisthesis: factors associated with the decision to fuse. *The Spine Journal*, <https://doi.org/10.1016/j.spinee.2020.11.010>. In press.
2. Romagna, A., Wilson, J. R., Jacobs, W. B., Johnson, M. G., Bailey, C. S., Christie, S., Paquet, J., Nataraj, A., Cadotte, D. W., Manson, N., Hall, H., Thomas, K. C., Schwartz, C., Rampersaud, Y. R., McIntosh, G., Fisher, C. G., & Dea, N. (Oct 2020). Factors Associated With Return to Work After Surgery for Degenerative Cervical Spondylotic Myelopathy: Cohort Analysis From the Canadian Spine Outcomes and Research Network. *Global Spine Journal*, 219256822095866. <https://doi.org/10.1177/2192568220958669>
3. Rowe, E., Hassan, E., Carlesso, L., Wilson, J., Gross, D., Fisher, C., Hall, H., Manson, N., Thomas, K., McIntosh, G., Drew, B., Rampersaud, R. & Macedo, L. (Dec 2020) Predicting recovery after lumbar spinal stenosis surgery: A protocol for a historical cohort study using data from the Canadian Spine Outcomes Research Network (CSORN), *Canadian Journal of Pain*, 4:4, 19-25, DOI: [10.1080/24740527.2020.1734918](https://doi.org/10.1080/24740527.2020.1734918)

Dr. Manson and Dr. Abraham (Orthopaedic Spine Surgeon)

1. Bond, M., Evaniew, N., Bailey, C. S., Glennie, R. A., Paquet, J., Dea, N., Hall, H., Manson, N., Thomas, K., McIntosh, G., Soroceanu, A., Abraham, E., Johnson, M...& Fisher, C. G. (Nov 2020). Back pain in surgically treated degenerative lumbar spondylolisthesis: what can we tell our patients? *The Spine Journal*, 20(12), 1940– 1947. <https://doi.org/10.1016/j.spinee.2020.08.009>
2. Ayling, O., Ailon, T., Street, J., Dea, N., McIntosh, G., Abraham, E., Soroceanu, A., Johnson, M., Paquet, J., Rasoulinejad, P., Phan, P., Yee, A., Christie, S., Nataraj, A., Glennie, A., Hall, H., Manson, N., Rampersaud, R., Thomas, K., Fisher, C. (Oct 2020). The Effect of Perioperative Adverse Events on Long-Term Patient-Reported Outcomes After Lumbar Spine Surgery, *Neurosurgery*, nyaa427, <https://doi.org/10.1093/neuros/nyaa427>
3. Stratton, A., Wai, E., Kingwell, S., Phan, P., Roffey, D., Koussy, M. E., Christie S., Jarzem P. Parham Rasoulinejad, Steve Casha, Jerome Paquet, Michael Johnson, Edward Abraham, Hamilton Hall, Greg McIntosh, Kenneth Thomas, Raja Rampersaud, Neil Manson, Charles Fisher (Nov 2020). Opioid use trends in patients undergoing elective thoracic and lumbar spine surgery. *Canadian Journal of Surgery*, 63(3). doi:10.1503/cjs.018218

**2. Interprofessional Patient-Centred Care**

Dr. Shelley Doucet, Adjunct Professor, DMNB

**FUNDING**

\$65,000	Role: Nominated Principal Investigator	New Brunswick Innovation Foundation (NBIF)	New Brunswick Priority Occupation Student Support Fund Competition	Title: Exploring patient navigation for trauma patients and people with dementia to create efficiencies in priority occupations
\$49,500	Role: Nominated Principal Investigator	Canadian Foundation for Healthcare Improvement		Title: Exploring patient navigation for people with dementia, their caregivers, and the care team in Canada
\$200,000	Role: Co-Principal Investigator	Foundation for Advancing Family Medicine (FAFM)	COVID-19 Pandemic Response and Impact Grant Program (Co-RIG) Phase 1	Title: Telehealth case management in primary care: An innovation in response to services disruption for patients with complex needs



## PUBLICATIONS

1. MacNeill, L., MacNeill, A. L., Doucet, S., & Luke, A. (accepted). Caring for children and youth with complex care needs (CCN) in New Brunswick during the COVID-19 pandemic. *Journal of New Brunswick Studies*.
2. Luck, K., Doucet, S., & Luke, A. (in press). Occupational disruption during a pandemic: Exploring the experiences of individuals living with chronic disease. *Journal of Occupational Science*. <https://doi.org/10.1080/14427591.2020.1871401>.
3. Asher, K. E., Doucet, S., & Luke, A. (in press). Registered dietitians' perceptions and use of the plant-based recommendations in the 2019 Canada's Food Guide. *Journal of Human Nutrition and Dietetics*. <http://dx.doi.org/10.1111/jhn.12845>
4. Luke, A., Luck, K., & Doucet, S. (2020). Experiences of caregivers as clients of a patient navigation program for children and youth with complex care needs: A qualitative descriptive study. *International Journal of Integrated Care*, 20(4): 10, 1–10. <https://doi.org/10.5334/ijic.5451>
5. Luck, K., & Doucet, S. (2020). A rapid review exploring nurse-led memory clinics. *Nursing Open*. 00, 1-12. <https://doi.org/10.1002/nop2.688>
6. Danish, A., Chouinard, M. C., Audrey-Bassler, K., Burge, F., Doucet, S., Ramsden, V. R., Bisson, M., Cassidy, M., Condran, B., Lambert, M., Penney, C., Sabourin, V., Warren, M., & Hudon, C. (2020). Protocol for a mixed-method analysis of implementation of case management in primary care for frequent users of healthcare services with chronic diseases and complex care needs. *BMJ Open*. 10(6), 1-11. <http://dx.doi.org/10.1136/bmjopen-2020-038241>

## PRESENTATIONS

### Invited Presentations

1. Doucet, S., & Luke, A. (October 2020). *Applying the NaviCare/SoinsNavi model to dementia patients and their caregivers*. Canadian Foundation in Healthcare Improvement (CFHI) Discussion Series - Community Dementia Care and Support. Ottawa, ON and virtual.
2. Doucet, S. (October 2020). *Digital health research innovations at the Centre for Research in Integrated Care (CRIC)*. UNB Office of Research Services' New Brunswick Digital Health Connector. Fredericton, NB and virtual.

### Other Oral Presentations

1. Poole, M., Wilcock, J., Rait, G., Brodaty, H., & Robinson, L., on behalf of the COGNISANCE team (I am a Co-PI on this team). (December 2020). From plan to impact to quality improvement: A review of national and international approaches to improve diagnosis and post-diagnostic support for people living with dementia. *Alzheimer's Disease International (ADI) Virtual International Conference 2020*, Singapore and virtual.

### Poster Presentations

1. Asher, K. E., Doucet, S., & Luke, A. (November 2020). *The meat of the matter: Registered dietitians look favourably upon the updated plant-based recommendations in the new Canada's Food Guide*. Health Research Week, NBHRF's Virtual Online Conference. Fredericton, NB and virtual. Retrieved from <https://www.nbhrf.com/en/health-research-week>.
2. Cassidy, M., Doucet, S., Luke, A., & Goudreau, A. (November 2020). *Improving the paediatric to adult care transition experience: Recommendations from young adults with complex care needs: A scoping review*. Health Research Week, NBHRF's Virtual Online Conference. Fredericton, NB and virtual. Retrieved from <https://www.facebook.com/NBHRF/videos/123270249392575>. \*Won third place in the PhD posters category\*

3. MacNeill, L., MacNeill, A. L., Doucet, S., & Luke, A. (November 2020). *Caring for children/youth with complex care needs in New Brunswick during the COVID-19 pandemic*. Health Research Week, NBHRF's Virtual Online Conference. Fredericton, NB and virtual. Retrieved from <https://www.facebook.com/NBHRF/videos/123270249392575>. \*Won first place in the postdoctoral fellowship posters category\*
4. Thevathasan, N., Luck, K., Luke, A., & Doucet, S. (November 2020). *The perceptions and experiences of care providers as clients of NaviCare/SoinsNavi: A patient navigation centre for children and youth with complex care needs*. Health Research Week, NBHRF's Virtual Online Conference. Fredericton, NB and virtual. Retrieved from <https://www.facebook.com/NBHRF/videos/123270249392575>. \*Won third place in the medical student posters category\*
5. Asher, K. E., Doucet, S., & Luke, A. (November 2020). *The nature of interprofessional collaboration among dietitians working in primary care and other areas of practice*. North American Primary Care Research Group (NAPCRG) 48<sup>th</sup> Annual Meeting. San Francisco, CA and virtual.
6. Danish, A., Hudon, C., Bisson, M., Doucet, S., Aubrey-Bassler, K., Lambert, M., & Howse, D. (November 2020). *A strategic analysis of patient engagement in a multi-site case management intervention in primary care*. North American Primary Care Research Group (NAPCRG) 48<sup>th</sup> Annual Meeting. San Francisco, CA and virtual.
7. MacNeill, L., MacNeill, A. L., Doucet, S., & Luke, A. (November 2020). *Caring for children/youth with complex care needs (CCN) during the COVID-19 pandemic*. North American Primary Care Research Group (NAPCRG) 48<sup>th</sup> Annual Meeting. San Francisco, CA and virtual.
8. MacNeill, L., Splane, J., Gander, S., Doucet, S., Luke, A., Barry, K., & Cassidy, M. (November 2020). *Improving transitions to adult healthcare for youth/young adults with complex care needs (CCN) and their families*. North American Primary Care Research Group (NAPCRG) 48<sup>th</sup> Annual Meeting. San Francisco, CA and virtual.
9. Doucet, S., Luke, A., McAiney, C., Vedel, I., Verhey, F., Rait, G., Reid, A., Koch, M., Conway, E., Gresham, M., & Brodaty, H., on behalf of the COGNISANCE team. (November 2020). *Co-designing the dementia diagnostic process and post-diagnostic care in primary care*. North American Primary Care Research Group (NAPCRG) 48<sup>th</sup> Annual Meeting. San Francisco, CA and virtual.
10. Cassidy, M., Doucet, S., Luke, A., & Goudreau, A. (November 2020). *Paediatric to adult care transition experience: Recommendations from young adults with complex care needs*. 2020 Children's Healthcare Canada Annual Conference. Saskatoon, SK and virtual.
11. MacNeill, L., Luke, A., & Doucet, S. (November 2020). *Evaluating the implementation of a pediatric patient-navigation centre in Atlantic Canada*. 2020 Children's Healthcare Canada Annual Conference. Saskatoon, SK and virtual.
12. MacNeill, L., MacNeill, A. L., Doucet, S., & Luke, A. (November 2020). *Caring for children/youth with complex care needs during the COVID-19 pandemic: Perspectives from New Brunswick caregivers and care providers*. 2020 Children's Healthcare Canada Annual Conference. Saskatoon, SK and virtual.
13. Splane, J., Doucet, S., & Luke, A. (November 2020). *Exploring the practices, experiences, and needs of care providers when supporting youth with complex care needs transition from pediatric to adult healthcare*. 2020 Children's Healthcare Canada Annual Conference. Saskatoon, SK and virtual.
14. Thevathasan, N., Doucet, S., & Luke, A. (November 2020). *The perceptions and experience of care providers as clients of NaviCare/SoinsNavi: A patient navigation centre for children/youth with complex care needs*. 2020 Children's Healthcare Canada Annual Conference. Saskatoon, SK and virtual.
15. McAiney, C., Doucet, S., Luke, A., Vedel, I., Jarrett, P., Reid, A., Koch, M., Conway, E., Rojas-Rozo, L., & the COGNISANCE Consortium. (October 2020). *Co-designing supports to enhance the dementia diagnosis experience and post-diagnostic services in Canada and beyond*.

## OTHER NEWS

### Media releases

Dec 7, 2020

*Daily Gleaner*. Topic: Researchers look for dementia patients, caregivers to include in study. Dr. Alison Luke and I were featured in this article where we shared our Co-designing dementia diagnosis and post-diagnostic care (COGNISANCE) dementia research project. The article provided local diagnosed dementia statistics and included how to contact our team as we look for New Brunswickers who have recently been diagnosed with dementia. The goal of this research is to improve the diagnosis process for patients and their caregivers. I am a Co-PI of the transnational CO-desiGning demeNtiadlagnoSis ANd post-diagnostic CarE “COGNISANCE” grant and the Nominated PI of the GNB Healthy Seniors Pilot Project grant. Retrieved from <https://tj.news/dailygleaner/101428702>.

### Coverage in Reports, Newsletters, Magazines, E-books, etc.

1. Atlantic Health Exploration and Discovery: The Twelve Days of Research.
  - a. **Topic**: Integrated health care researchers on building strong collaboration: Communication is key.
    - i. This December 8<sup>th</sup>, 2020 article provided an in-depth overview of our pan-Canadian project entitled, Case management in primary care for frequent users of healthcare services with chronic diseases and complex care needs: Implementation and realist evaluations. The article provided the project background, current project status including how COVID-19 has affected the project, and introduced the New Brunswick researcher team members. I am a co-principal investigator on this project and the Director of CRIC.
    - ii. Retrieved from [bit.ly/37ZX7Zh](https://bit.ly/37ZX7Zh).
2. Atlantic Health Exploration and Discovery: The Twelve Days of Research.
  - a. **Topic**: Teaching interdisciplinary collaboration to the next generation: UNB’s new undergraduate Bachelor of Health program.
    - i. This December 6<sup>th</sup>, 2020 article highlighted the new Bachelor of Health program that welcomed its first students September 2020. I was involved with the development of this program through the UNB Saint John Bachelor of Health Working Group, the Curriculum Committee, and am teaching one of the program courses that I co-developed.
    - ii. Retrieved from <https://bit.ly/3n1XjNU>.

### **3. Emergency Medicine Saint John Research Program**

Dr. Kavish Chandra – Assistant Professor, Department of Emergency Medicine  
Dr. Paul Atkinson – Professor, Department of Emergency Medicine  
Dr. James French – Assistant Professor, Department of Emergency Medicine

## FUNDING

\$2,500      Awarded to Dr. Luke Edgar, Dr. Rachel Goss, Dr. Paul Atkinson, Dr. David Lewis, Jacqueline Fraser, Dr. Kavish Chandra      Saint John Regional Hospital Foundation      Hip fracture pain management quality improvement study

## PUBLICATIONS

1. **Atkinson, P.** Just three things.... *Can J Emerg Med* (2020). <https://doi.org/10.1007/s43678-020-00027-1>

## PRESENTATIONS (INCLUDING TRAINEES)

October 2020 – Dalhousie Emergency Medicine East Coast Research Series

1. “What Presenting Features Predict Obstetrical Outcomes in Women Who Present to the Emergency Department with Early Pregnant Bleeding?” by Morgan Burgoyne
2. “A Feasibility Analysis for Successful Completion of IVC Ultrasound in Hypotensive Emergency Department Patients” by Dr. Robert Dunfield
3. “Perspectives of Medical Students and Undergraduate Students on their Experience as Medical Scribes in the Saint John Regional Hospital Emergency Department” by Ilya Abelev
4. “Primary Care Disaster Preparedness: Awareness of Practice Continuity Tools” by Dr. Fraser MacKay
5. “Emergency Physicians Ability to Recognise and Diagnose Opiate Use Disorder: A Qualitative Study” by Christine Crain

November 2020 – Dalhousie Emergency Medicine East Coast Research Series

1. “Emergency department census is useful as a real-time measure of crowding” by Dr. Robin Clouston
2. “Assessing the impact of the advanced care paramedic program in Southern NB with out of hospital cardiac arrest” by Dr. Mark McGraw



## OTHER NEWS

“An Alumnus Shares His DMNB Experience” by Dr. Kavish Chandra (DMNB Class of 2016), which appeared in the Fall 2020 issue of *VoxMeDAL* as part of their “10 Years of DMNB: Celebrating a Maritime Success Story” cover story.

#### **4. Stan Cassidy Centre**

Dr. Colleen O'Connell – Assistant Professor, Division of Physical Medicine & Rehabilitation, Department of Medicine

Truly an East-coaster, and never far from water, Colleen completed medical school at Memorial University of Newfoundland and residency in Physical Medicine and Rehabilitation at Dalhousie University, Canada.

She specializes in neuro-rehabilitation, is Research Chief at New Brunswick's Stan Cassidy Centre for Rehabilitation, and is the Clinical Research Director of University of New Brunswick Institute of Biomedical Engineering. Despite no medical school in Fredericton she holds appointments at Dalhousie University Faculty of Medicine, as well as the University of New Brunswick Faculty of Kinesiology.

Believing in the strength of collaboration, or perhaps having difficulty saying no, she is a member of many networks: Canadian ALS Research Network, Praxis Spinal Cord Institute, Canadian SCI Alliance, Canadian Neurologic Diseases Network, Atlantic Mobility Action Project. She is a past-president of the Canadian Association of Physical Medicine & Rehabilitation, receiving the associations highest honor, the Award of Merit, in 2015.

Research interests and outputs are broad, and generally reflect tendency to being an early adopter, so include treatments and applied technologies for mobility impairment and function, as well as pain and spasticity management. Development of best practice recommendations are priorities, and she contributes as member of the PVA SCI Guidelines Consortium, Heart and Stroke's Best Practices Advisory Committee, Canadian SCI Pain Guidelines Committee, Canadian Spinal Cord Injury High Performance Indicators Sexual Health, ALS Canada Best Practice Recommendations Working Group and the Canadian Thoracic Society Home Mechanical Ventilation Guidelines Committee.

International health work predates medical training. With few options for rehabilitation professionals to contribute through established organizations, along with husband Jeff Campbell she founded Team Canada Healing Hands in 2002, a not-for-profit organization dedicated to advancing rehabilitation care and training in developing countries. She has had opportunity to work in areas of rehabilitation care delivery, training, and research in Central America, the Caribbean, Africa and Asia, and in disaster response in Haiti and Nepal.

She is a member of the International Spinal Cord Society External Relations Committee and the International Society of Physical and Rehabilitation Medicine Disaster Committee. She has co-authored numerous publications on and provided technical guidance to the World Health Organization on rehabilitation in the humanitarian field.

She is a hockey mom of her teenage sons Sam and Véné. In another life, she would have been an adventure travel agent.

## PUBLICATIONS

Christen Shoemsmith, Agessandro Abrahao, Tim Benstead, Marvin Chum, Nicolas Dupre, Aaron Izenberg, Wendy Johnston, Sanjay Kalra, Desmond Leddin, Colleen O'Connell, Kerri Schellenberg, Anu Tandon, Lorne Zinman. Canadian best practice recommendations for the management of amyotrophic lateral sclerosis. *CMAJ* Nov 2020, 192 (46) E1453-E1468; DOI: 10.1503/cmaj.191721.

Attabib N, Kurban D, Cheng CL, Rivers CS, Bailey CS, Christie S, Ethans K, Flett H, Furlan JC, Tsai EC, O'Connell C. Factors Associated with Recovery in Motor Strength, Walking Ability, and Bowel and Bladder Function after Traumatic Cauda Equina Injury. *J Neurotrauma*. 2020 Nov 2. doi: 10.1089/neu.2020.7303. Epub ahead of print. PMID: 32907483.

Sihota, A, Smith, BK, Ahmed, S-A, et al. Consensus-based recommendations for titrating cannabinoids and tapering opioids for chronic pain control. *Int J Clin Pract*. 2020; 00:e13871. <https://doi.org/10.1111/ijcp.13871>

Dhakal, R., O'Connell, C., Gurung, J.B. *et al*. A team effort in Nepal: experiences from managing a large COVID-19 rehabilitation hospital outbreak. *Spinal Cord Ser Cases* 7, 5 (2021). <https://doi.org/10.1038/s41394-020-00374-2>