

Strategy for Patient Oriented Research (SPOR) Update

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Outline

1. Overview of patient-oriented research (POR)
2. IMAGINE SPOR - Patient-oriented research in digestive health
 - POR projects that engage patients as partners
 - Patient-identified priorities
 - Capacity building for patient engagement in research
 - Patient research partners (PRPs)
 - Patient and Community Engagement Research Program (PaCER) training

Strategy for Patient-Oriented Research

...is about ensuring that
the right patient
receives
the right intervention
at
the right time

“By 2025, health outcomes in Canada will be demonstrably improved and the health care experience for patients enhanced through the integration of evidence at all levels of the health care system.”

CIHR SPOR Chronic Disease Networks



Réseau sur les innovations
en soins de santé de
première ligne et intégrés



Primary and Integrated
Health Care Innovations
Network

Some SPOR Milestones

August 2011:
SPOR launch

August 2015: SPOR
Capacity Development
Framework

August 2020:
Canadian Data Platform (CDP) and Data Access
Support Hub (DASH) led by Health Data
Research Network Canada (HDRN Canada)

June 2014: SPOR Engagement
Framework

September 2017:
SPOR Evidence
Alliance (SEA)

2020: SPOR Patient Engagement
Framework Update

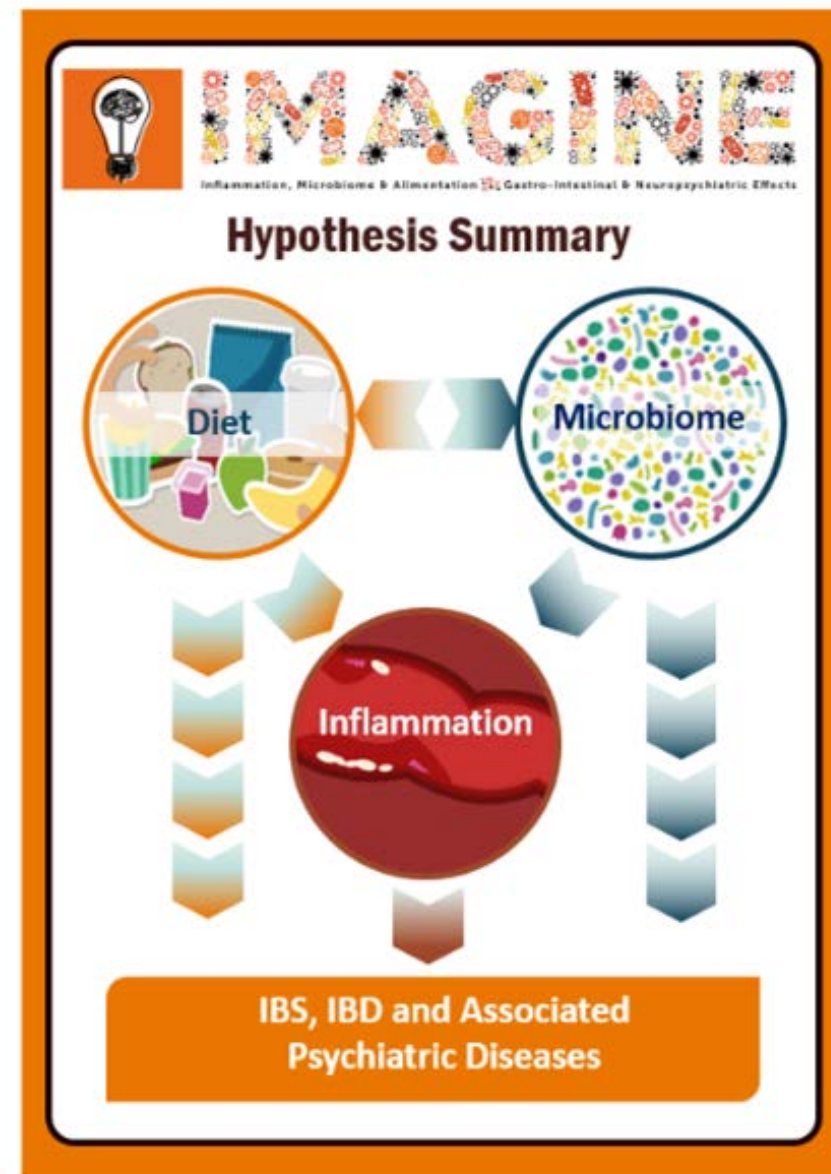
Dates vary by province: SPOR SUPPORT (*Support for
People and Patient-Oriented Research and Trials*) Units

Who We Are

- One of five chronic disease networks in CIHR's SPOR initiative
- Investigating the interactions between inflammation, microbiome, diet and mental health in patients with inflammatory bowel disease (IBD) and irritable bowel syndrome (IBS)
- Research network of 17 hospitals/universities comprised of researchers, patients, and clinicians across Canada

Our Mission

Transform the management of IBD and IBS and associated mental health issues with these disorders.





What is Patient-Oriented Research (POR)?

Engages patients in “meaningful and active collaboration in governance, priority setting, conducting research and knowledge translation.”

Conducted by multidisciplinary teams in partnership with relevant stakeholders and aims to apply the knowledge generated to improve healthcare systems and practices.



Why Patient-Oriented Research?

- Achieve ***benefits that matter to patients***
- Improved health and access to the healthcare system
- Quality of life that is tied to patient-oriented outcomes
- The right treatment at the right time
- Being an active, informed partner in health care
- Contribute to improving the cost effectiveness of the health care system

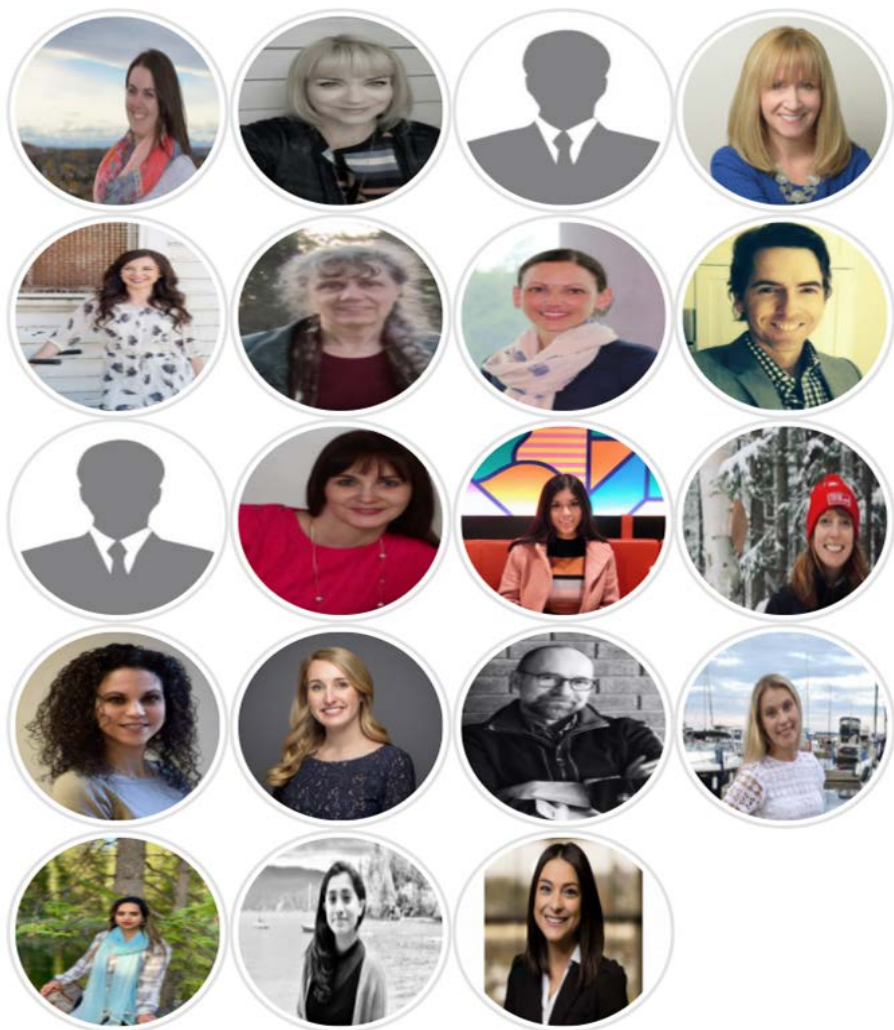
Patients have
expertise through
their lived
experience

Patients are
at the heart of
SPOR

Patients must be
involved as much and as
meaningfully as possible
to make health research
more responsive to
patient needs

IMAGINE SPOR

Patient Research Partners



Patient Research Partners

- IBD and IBS patients and caregivers from across Canada who provide guidance and direction to the IMAGINE Network and our research
- Their involvement ensures the network addresses the unique needs of patients, ultimately improving the quality of life of those living with GI diseases

Who contribute as:

- Governance Committee members
- Working Group members
- Working as co-researchers and/or leading research projects

PRPs | IMAGINE Governance



IBD National Cohort Studies

Research Lead: Charles Bernstein

Clinical Lead: Remo Panaccione

Patient Lead: Anny Fernandez

Diet and Environment

Research Leads: Elena Verdu,

Leo Dieleman

Patient Lead: Shawn Reynolds

Pediatrics

Research Lead: Anthony Otley

Patient Lead: TBD

IBS National Cohort Studies

Research Leads: Stephen Vanner,

Premysl Bercik

Patient Lead: Megan Marsiglio

Sex and Gender Studies

Research Lead: Laura Targownik

Patient Lead: Kim Daley

Inflammation and Basic Science

Research Leads: Paul Kubes,
Stephen Collins, John Bienenstock

Patient Engagement

Research Lead: Deborah Marshall

Patient Lead: Sandra Zelinsky

Psychiatry Studies

Research Lead: Valerie Taylor

Patient Lead: Amy van Engelen

Knowledge Translation, Education, and Policy

Research Leads: John Lavis, Gil

Kaplan, Paul Beck

**Patient Leads: Kate Lee,
Glen Allison**

Microbiome, Genetics, and Metabolomics

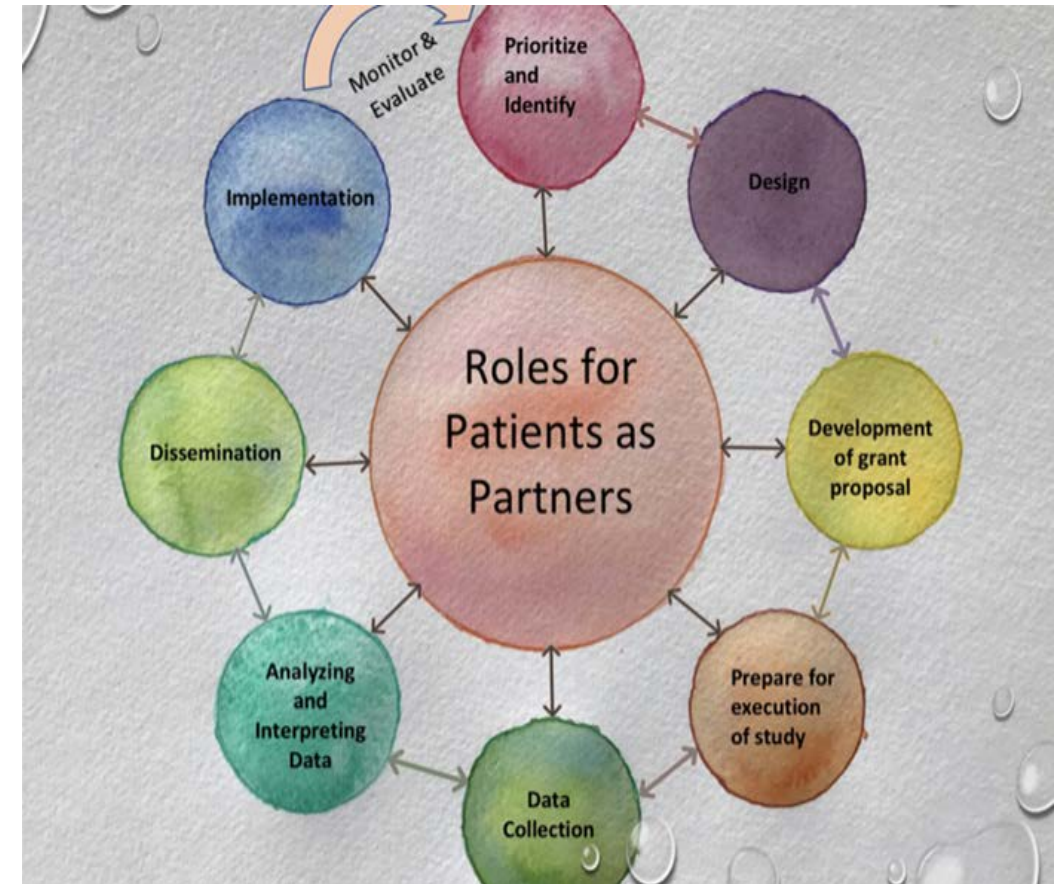
Research Lead: Mike Surette,
Richard Fedorak, John Rioux

PRPs | Project Examples



IMAGINE Patient Engaged Projects

- Adult FMT Treatment Preferences Survey
- Child FMT Treatment Preferences Survey
- Priority Setting Study (paediatrics and adults)
- Recruitment and Retention Study
- PaCER Cohort Studies
- Health Economics/Health Resource Use Study
- IMAGINE SPOR AB/BC Co-Design Study
- Sex & Gender IBD/IBS Study
- IBD and Mental Health (anxiety and depression)



Graphic designed by Sandra Zelinsky

PRP | Patient-Led Study

Recruitment and Retention



Improving patient participation in longitudinal research: An innovative patient-led patient-oriented qualitative research project to understand the motivations and barriers to getting and staying involved in the IMAGINE SPOR Study.

Zelinsky S¹, Daley K, Neary E², Mason K, Bellissimo G, DeNino A, MacKean G¹, Fernandes A³, Moayyedi P³, Marshall D¹

¹ University of Calgary ² Queen's University ³ McMaster University

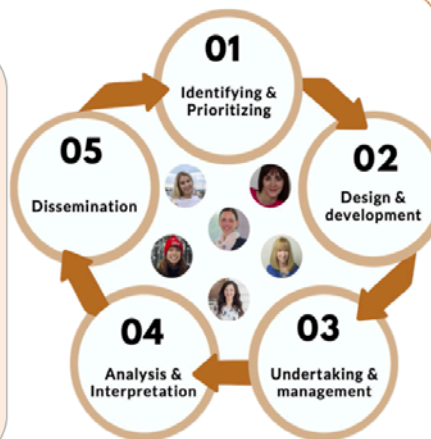


Accepted to the
AbSPORU Virtual
Institute 2020

Background: Patient-Led and Patient-Oriented Research aims to create more meaningful and relevant research findings for all stakeholders. Patient Research Partners (PRPs) have been involved throughout all phases of this research project. Having PRPs from across Canada involved in the data collection helped to ensure that we recruited and captured a nation-wide representation of interview participants. We recognize that having PRPs may have created variables in interview styles. We tried to mitigate these variables through training and the use of an interview guide. These results may not be generalizable because of the small sample size and therefore we have not captured perspectives from a large sample size. Results from this study will help to inform the development of recruitment and retention strategies for the IMAGINE SPOR Network study.

Methods

1. Patient research partners from the IMAGINE-SPOR network collaborated with researchers with the aim of identifying strategies to increase recruitment and retention within the main study cohort (MAGIC).
2. After undergoing training in qualitative research, PRPs co-designed and developed a semi-structured interview guide alongside academic researchers.
3. 7 PRPs conducted qualitative semi-structured interviews, which were recorded electronically. PRPs took part in online meetings over the Zoom platform throughout the entirety of the study.
4. All of the interviews were transcribed by a PRP, a trained medical transcriptionist. Five PRPs conducted the data analysis by coding the interview content into common themes.



Results

PRPs recruited participants from B.C., AB., MB., ON., N.S., & NL. They conducted semi-structured interviews with a total of 27 participants, ages ranging from 20-75 years. Interviews were conducted between Oct. 2019- Jan. 2020.

The top four themes of key motivators to study participation that emerged were:
Convenience
Experience
Communication
Compensation

Characteristics	Participants N=27
Age, years, mean (age range)	40 (20-75)
Sex, female, n	14
Knew someone living with IBD, n	23



BACKGROUND

The IMAGINE SPOR Network is conducting a large longitudinal research study (MAGIC) to investigate the interactions between inflammation, diet, and mental health in patients with inflammatory bowel disease (IBD) and irritable bowel syndrome (IBS). This study aims to recruit 8000 subjects (CD, UC, IBS and healthy subjects) that must submit blood, urine and stool samples, and complete online questionnaires annually for 4 years. To help identify more effective recruitment and retention strategies, a group of IMAGINE PRPs led a qualitative study to better understand the motivations and barriers of healthy controls to participating in long-term comprehensive studies like MAGIC.

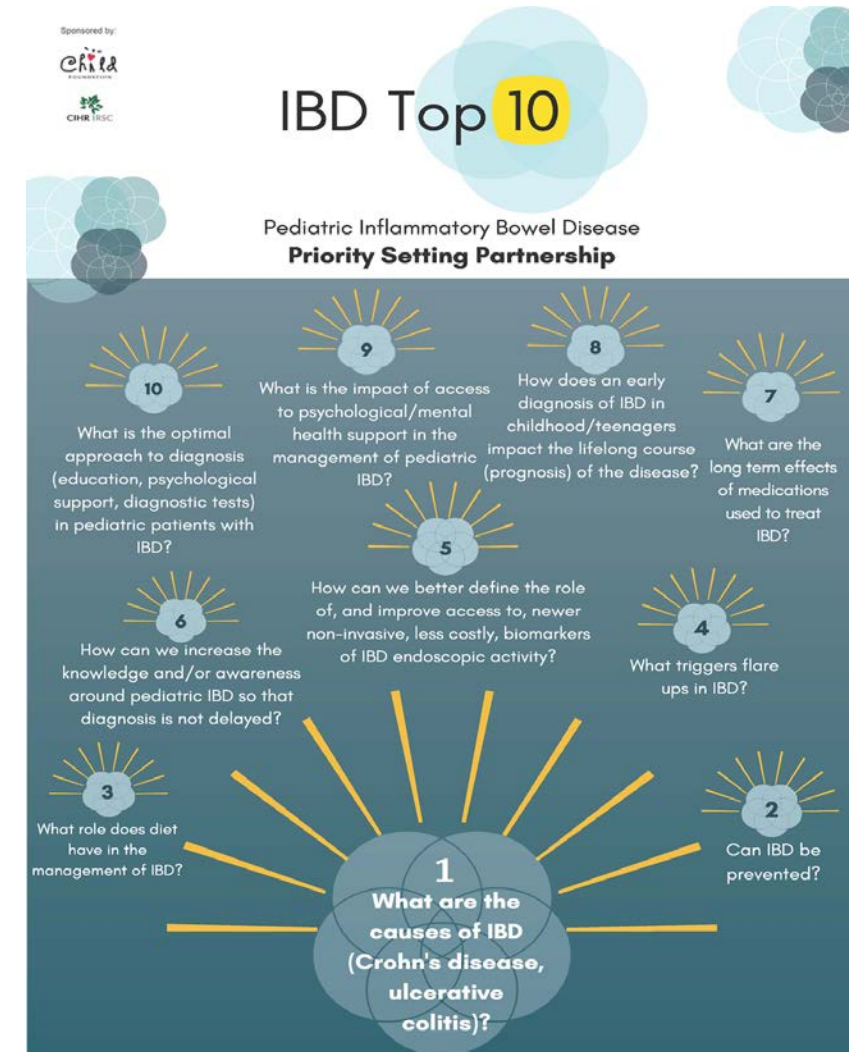
Submitted to the
Crohn's & Colitis
Congress 2021

PRPs | James Lind Alliance (JLA) Priority Setting

IBD in Pediatrics; CIDSCANN

Upcoming project:

- Develop research priorities for IBD/IBS with patients, caregivers, & clinicians
- The top ten previously unanswered research questions generated from this study will inform future quality improvement efforts & research within IMAGINE



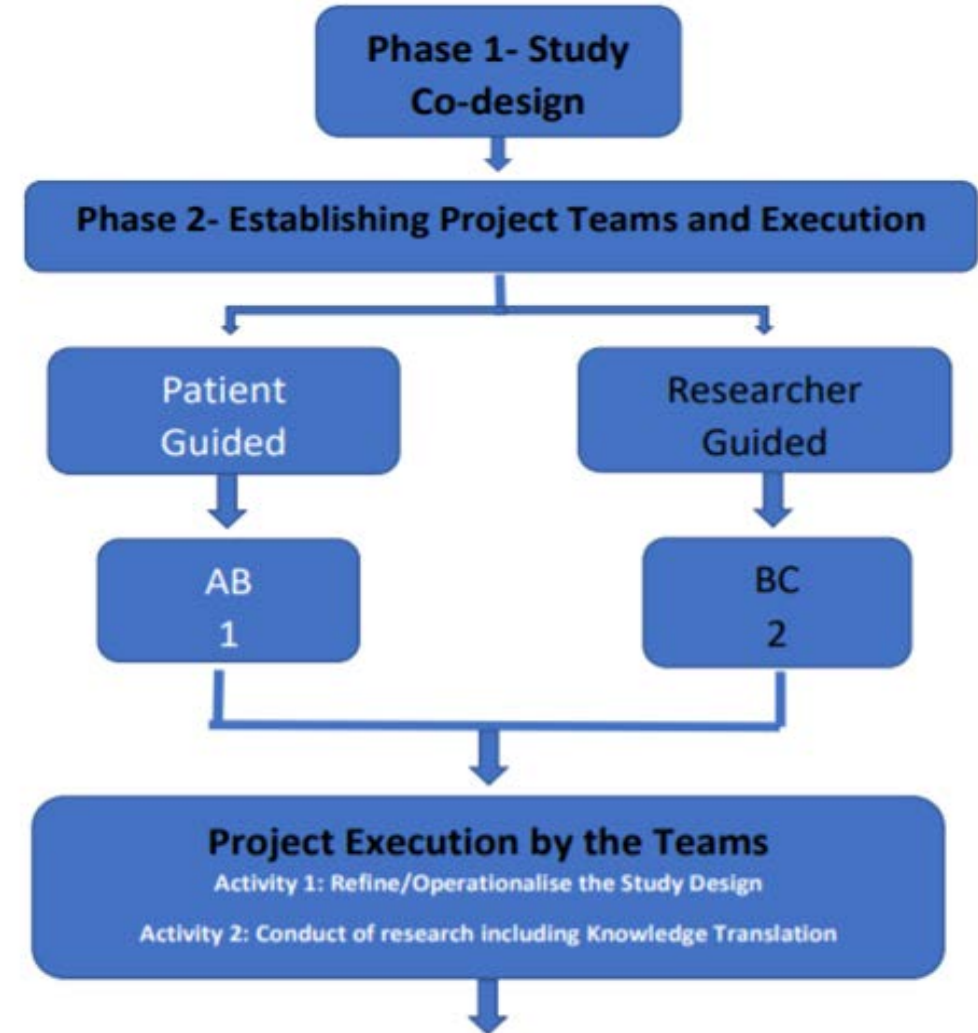
-CIDSCANN Network

PRPs | AB & BC SPOR SUPPORT Partnership Patient Engagement Study



Does level of patient engagement make a difference?

Assess relationship between level of patient engagement and key research outputs



PRPs | Knowledge Translation Activities



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IMAGINE
Inflammation, Microbiome & Alimentation in Gastro-Intestinal & Neuropsychiatric Effects

PaCER: Alberta IBD Team: We've Got Guts
Exploring what resources IBD patients need after diagnosis

Presenters:

- Marcia Bruce - PaCER Intern
- Tatiana Kuzmyn - PaCER Intern
- Marlyn Gill - Mentor
- Deirdre Walsh - Mentor

PaCER
Patient and Community Engagement Research

UNIVERSITY OF CALGARY
O'Brien Institute for Public Health

Alberta Health Services
Inspiring solutions. Together.

IMAGINE
Inflammation, Microbiome & Alimentation in Gastro-Intestinal & Neuropsychiatric Effects

A patient led, peer-to-peer qualitative study on the psychosocial relationship between patients with Inflammatory Bowel Disease (IBD) and food.

Jenna Rines¹, Kim Daley¹, Sunny Loo¹, Kwestan Safari¹, Deirdre Walsh², Paul Moayyedi^{3,4}, Aida Fernandes⁵, Deborah Marshall^{1,5}, Nancy Marlett¹

Abstract

Background

This study is part of an ongoing patient and community engagement research (PaCER) program at the University of Calgary, Alberta, Canada. The following information is provided for the purpose of transparency and accountability.

Methods

Participants were recruited through social media posts by IMAGINE PaCER, Crohn's and Colitis Canada, and other IBD organizations. The study was conducted in a peer-to-peer qualitative format, with participants sharing their experiences and insights into the psychosocial relationship between IBD and food.

Results

The study identified several key themes related to the psychosocial relationship between IBD and food, including the impact of food on mood, the role of food in social interactions, and the challenges of managing IBD while maintaining a healthy diet.

Conclusions

The findings of this study highlight the importance of addressing the psychosocial aspects of IBD in clinical practice and research. Further research is needed to explore the complex relationship between IBD and food, and to develop interventions that support patients in managing their condition while maintaining a healthy and enjoyable diet.

IMAGINE
Inflammation, Microbiome & Alimentation in Gastro-Intestinal & Neuropsychiatric Effects

The latest news and updates from the IMAGINE Network

WELCOME MESSAGE

As might be expected, the past few months have proven to be a challenge for the IMAGINE Network due to the COVID-19 pandemic. Many of our research studies have had to halt recruitment and cancel in-person meetings. However, we have made progress in a number of other fronts to overcome these barriers:

- All of our IMAGINE study recruitment centres have secured ethics amendments to enable virtual follow-up visits for our current study participants and a few sites are also in the process of applying for ethics approval to recruit new participants virtually.
- We have updated our website with a new COVID-19 section to improve access to evidence-informed resources to help those living with IBD & IBS.
- Some of our IMAGINE investigators have been collaborating with our partners to host COVID-19 education webinars and for our PaCER Network also plans to use this tool to help screen potential study donors for our PaCER Transplantation studies and, once serum antibody tests are developed, to identify associations with COVID and health outcomes in IBD/IBS and healthy controls.
- Dr. John Levis, our PaCER Lead, has been working with the Ontario government to deliver on several COVID evidence summaries to inform relevant public policy.
- Dr. Paul Moayyedi, our PaCER Lead, has been serving on the provincial government's Ontario Innovation Fund Provincial Oversight Committee (IFPOC) to evaluate COVID research proposals from teaching hospitals across the province that are selected for funding.

I encourage you to read on to learn more about the Network's activities over the past few months including the appointment of our new Co-Principal Investigator, Dr. Deborah Marshall, our PaCER-sponsored teams, and new monthly training webinar series. Also, stay regularly to stay updated on our Network's research progress.

Best wishes and stay healthy!

Aida Fernandes
Executive Director
IMAGINE PaCER



2019/20 Patient and Community Engagement Researchers (PaCERs)



IBD National Team: The Mob

A peer-to-peer study on the psychosocial relationship between individuals with IBD and food



IBD Alberta Team: We've Got Guts

Exploring what resources IBD patients need after diagnosis



PaCER Training Program



Practicum in research
and consultation skills
in patient and
community
engagement research

CPE
219 | 40 Hours | Online

Theoretical
foundations
in patient and
community
engagement research

CPE
221 | 40 Hours | Online

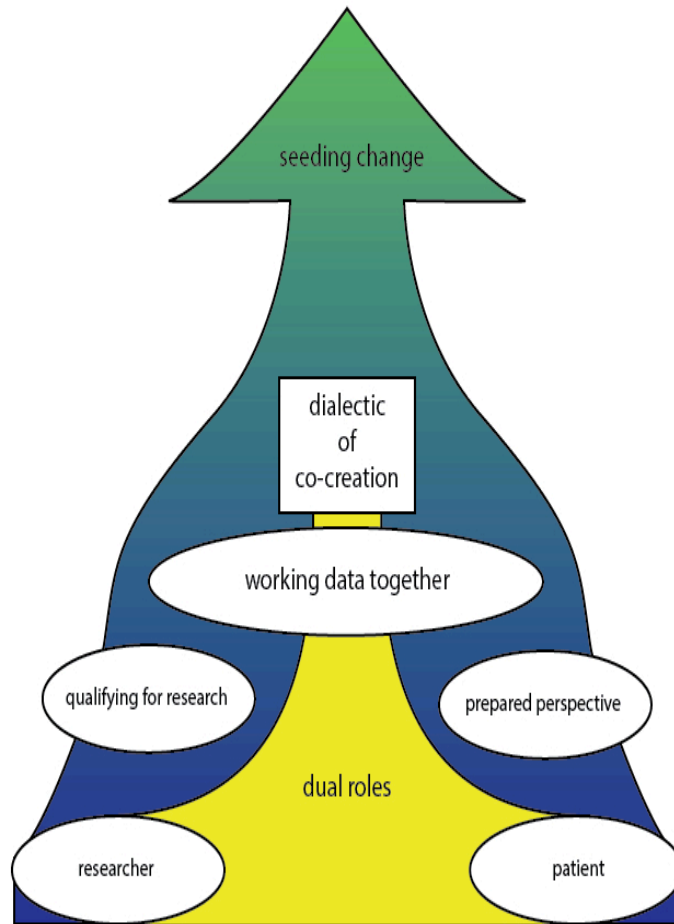
Internship in
conducting patient and
community
engagement research

CPE 220 | 80 Hours |
Online and field work



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CONTINUING EDUCATION

“Part of the Team”: Building New Patient Roles and Relationships in Health Research and Planning



Model: Co-creation of PaCER role as a ‘Twin Innovation’

Results: 3 major areas of impact:

- 1) increased capacity of patients to engage in healthcare research and planning
- 2) New roles for patients in health care planning – impacting attitudes and practices
- 3) New, collaborative roles for patients in research.

Interpretation: Fundamental cultural change, and a way to embed and measure patient value.

- Marlett N, Shklarov S, Marshall DA, Santana MJ, Wasylak T. Building New Relationships in Research: A Model of Patient Engagement Research. *Qual Life Res* 2015;24(5):1057-67.
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We have come a long way ...and we look forward to the journey ahead together!

IMAGINE a future without digestive disease

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The revolutionary SPOR IMAGINE Network could herald the end of digestive conditions like IBD and IBS

August 31, 2016

Megan Henry's digestive health journey began when she was 16 years old. Her life became dominated by severe abdominal pain and frequent trips to the bathroom, leading to feelings of isolation and embarrassment. Megan didn't understand what was happening in her body, until she was finally diagnosed with Crohn's disease and irritable bowel syndrome (IBS).

Inflammatory bowel disease (IBD) is comprised of two similar but distinct conditions: Crohn's disease and ulcerative colitis. Both




The Honorable Jane Philpott, Megan Henry, Filomena Tassi and Dr. Paul Moayyedi at the SPOR IMAGINE Network announcement.

Selected References

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Thank you!

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