RESEARCH WE FUND & STRATEGIC RESEARCH INITIATIVES







Agenda

- Research Primer
- Research Programs Overview
- Genetic, Environmental, Microbial (GEM)
 Project
- Promoting Access and Care through Centres of Excellence (PACE)





What We Do



RESEARCH



PATIENT
PROGRAMS &
SERVICES

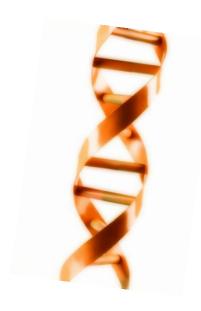


ADVOCACY & AWARENESS





Research Cycle







Translational









(Bedside)













How to fund research? Open vs. Targeted Research



Open

- Investigator-initiated
- Curiosity/hypothesis-driven
 (The question determines the experiment)



Targeted

- Directed research
- Research question, problem or theme specified in advance





How we choose which research to fund?



STEP 1: Call for Proposals

To Canadabased researchers and healthcare professionals

STEP 2: Grant Review

Committee of experts and lay persons review and rank applications on scientific merit and relevancy

STEP 3: Funding Approved

approved funding for highly-ranked projects based on availability of funds

STEP 4: Accountability

Grant recipients provide annual progress and financial reports







How do we monitor research progress?

- Annual progress and financial reports
- Publish findings in scientific journals & present in medical conferences
- Success in obtaining funding from federal government grants
- Partnerships with industry & governments to leverage donations
- Research Report (2015 Coming Soon!)







Crohn's and Colitis Canada's Research Programs



Building Capacity

- Summer studentships (BSc)
- Studentships (PhD, MSc)
- Fellowships (Post Doc)
- Salary Awards (MD/PhD)
- Chairships



Supporting Innovation

- Grants-in-Aid (GIAs or Discovery Grants)
- Innovations Grants



Targeting Research

- GEM
- PACE
- CIHR Signature Initiatives



Moving Knowledge into Practice

- Meeting of the Minds / Future Directions
- Impact of IBD Report
- Conference Grants







Newly Awarded Grants-in-Aid



Jean-Eric Ghia, University of Manitoba

- Co-Investigators: Drs.
 Charles Bernstein &
 Kung Sam
- How the hormone, Semaphorin 3E, regulates gut inflammation



Stephen Girardin, University of Toronto

 What is the role of the gene, NOD2, in Crohn's disease



Nicola Jones, The Hospital for Sick Children

- Co-Investigators: Drs.
 Dana Philpott &
 Anne Griffiths
- How Vitamin D increases risk of IBD



Alan Lomax, Queen's University

 Mechanisms of diarrhea & pain in IBD







Newly Awarded Grants-in-Aid



Derek McKay, University of Calgary

Using immune cells to treat IBD



Michael Surette, McMaster University

- Co-Investigators: Drs.
 Paul Moayyedi &
 Christine Lee
- Improving fecal transplant therapy in UC



Eytan Wine, University of Alberta

- Co-Investigators: Drs.
 Gane Wong, Jens Walter
 & Leo Dieleman
- Using patient antibodies to find bacteria that cause IBD in children





40 Years of Progress

- 350+ grants awarded to date that have improved our understanding of diagnosing and treating disease
- 350+ training awards for students and fellows fostering the next generation of researchers and clinicians
- 2 chairships at University of Calgary and McMaster University, establishing them as world-renowned Centres of Excellence
- Discovery of new genes associated with Crohn's and colitis
- \mathbb{X} Uncovering of new pathways involved in uncontrolled inflammation
- Understanding of links between brain and gut and role of microbiome in disease progression











What is GEM?







GOAL

Assemble a cohort of individuals at high risk of developing Crohn's and follow them to identify disease triggers



CROHN'S CROHN ET CROHN ET LA COLITE Make it stop. For life. LA MALADIE DE CROHN ET LA COLITE Mettez-y fin. Pour la vie.

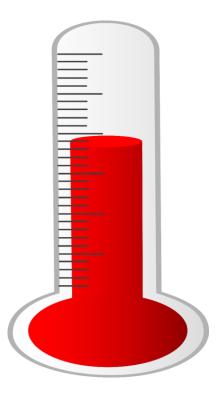
STRATEGY

Accelerate subject recruitment through site expansion (Canada, USA, international) to reach target of 5,000 subjects

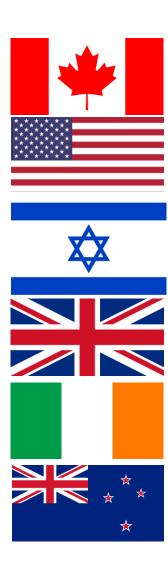
OUTCOME

Uncover triggers of Crohn's disease and guide development of transformative treatments

GEM Progress



- We're almost there So far, we've reached 75% of our goal
- 82 recruitment sites internationally
- 3,700/5,000 subjects recruited









Who can join GEM?



- Are between 6-35 years old
- Have a sibling and/or parent with Crohn's disease
- Are not diagnosed with inflammatory bowel disease (IBD), irritable bowel syndrome (IBS), or diabetes





What's involved?



2 short clinic visits to collect:

- Demographic information
- Medical history
- Information about diet
- Blood, stool, urine samples



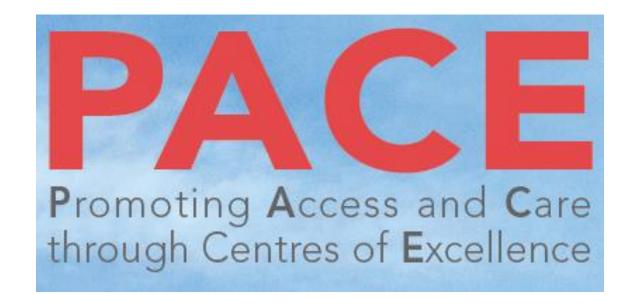


How can you help?

- Register at gemproject.ca and locate your local recruitment centre
- Promote GEM Project at Chapter meetings, events, communications
- Visit GEM booth on Saturday to learn more











What is PACE?

- First national network of leading IBD Centres of Excellence across 3 provinces in Canada
- Improve IBD patient outcomes & address current gaps through research and clinical care
- Provide evidence to change public healthcare system
- \$2.5 M initiative over 4 yrs (supported by CCC & pharma)





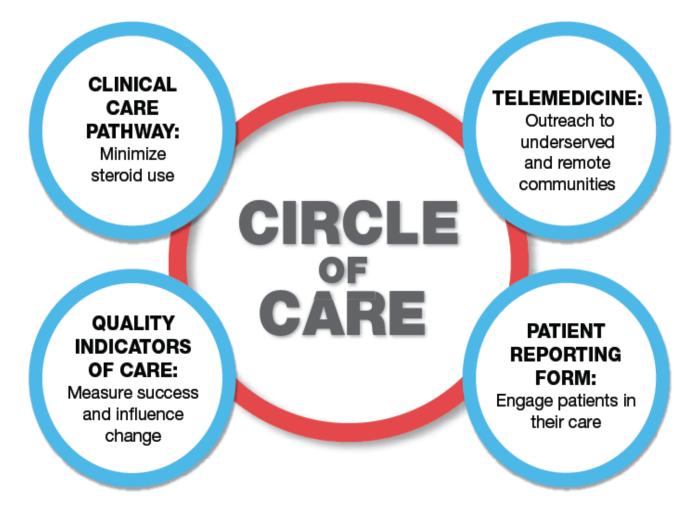
What are gaps in patient IBD care?

- Patients do not have access to specialized care when they need it
 - GI referrals is critical to timely diagnosis
 - Early visit with IBD specialist reduces risk of surgery & hospitalization
- Patients across Canada do not have equal access to best care
 - Early and ongoing access to specialized IBD care is lacking in rural/remote communities
- Chronic steroid use is too high
 - ¾ of IBD patients referred to an IBD centre are on chronic steroid therapy





What are PACE programs







Who's involved in PACE?

HOSPITAL AFFILIATED INSTITUTIONS





Alain Bitton

• McGill University



Richard Fedorak

• University of Alberta



Geoffrey Nguyen

• Mount Sinai Hospital



Remo Panaccione

• University of Calgary



Walter Reinisch

McMaster University

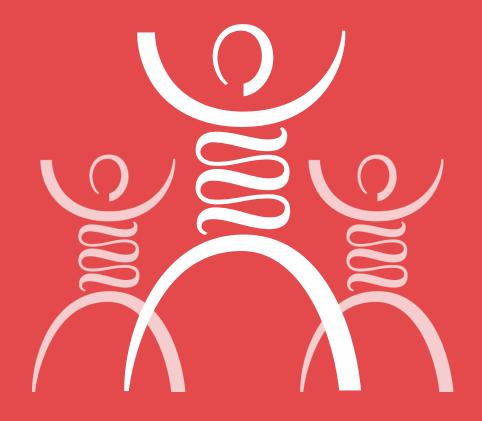




Questions?







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