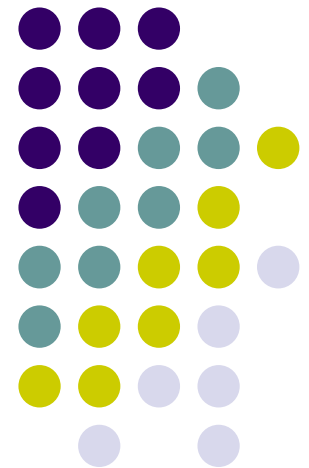


Patient and Community Engagement Research (PaCER): A Social Innovation Investing in the Science of Engagement

**Presented by: Deborah A. Marshall, PhD
Professor, Community Health Sciences
University of Calgary**

CAPT Panel Session 6
October 24, 2017



UNIVERSITY OF CALGARY
O'Brien Institute for Public Health



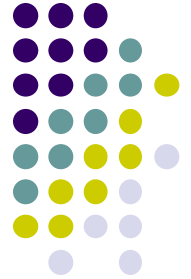
Canada Research Chair Program





Overview

1. Description and Evolution of PaCER
2. Example of PaCER project
3. Preliminary Assessment of Impact
4. Successes, Challenges and Myths



PaCER:
**PATIENT AND COMMUNITY
ENGAGEMENT RESEARCH
PACERINNOVATES.CA**

A Bit of History: How it all began?

Pilot project, 2011 – 2013

Patients Matter: Engaging Patients as Collaborators to Improve Osteoarthritis (OA) Care in Alberta

- ✓ Funded by *the Canadian Foundation for Healthcare Improvement (CFHI) [formerly CHSRF]*
- ✓ *Research Team Members: Nancy Marlett, Deborah Marshall, Tracy Wasylak, Tom Noseworthy, Svetlana Shklarov*
- ✓ Partnership with **Alberta Health Services Strategic Clinical Networks**, Research teams, Health Care Providers, patient and community health organizations and patients.



Facilitating Factors

Contributing to PaCER Success

- Alberta Strategic Clinical Networks™, a Health system resource responsible for transformation of healthcare for a single health authority, willing to invest in patients.
- Canadian Strategies for Patient Oriented Research (SPOR) to increase research options and patient engagement
- Three ongoing partners: Health Care; Health Research and Patient Capacity Building
- Research curriculum and inquiry method of engagement that created an engaged team

Patient and Community Engagement Research (PaCER)

Patient and community engagement researchers (PaCERs) are people with various health conditions, trained to design and conduct health research, using specific adapted methods of qualitative inquiry.

PaCER graduates work in collaboration with health professionals and researchers to:



PaCER Objectives

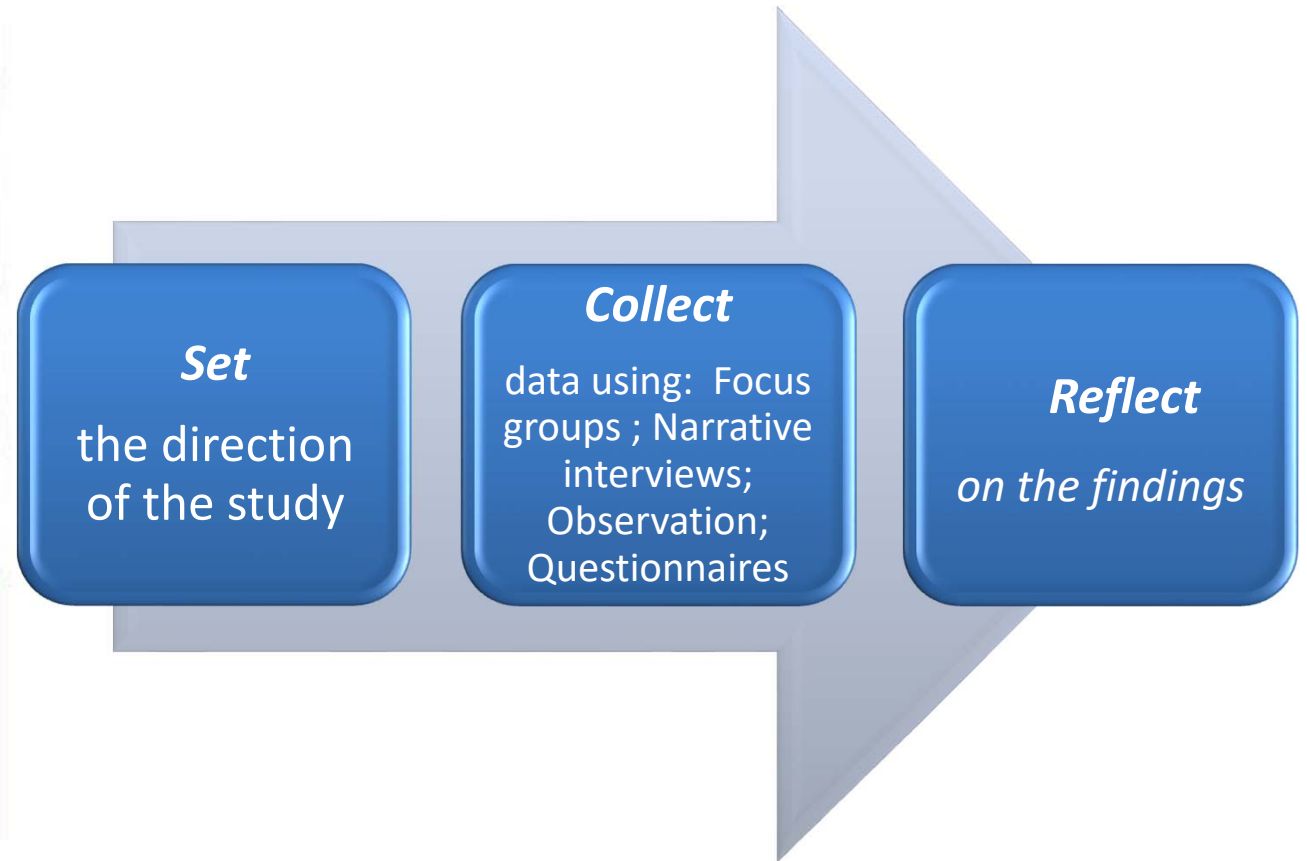
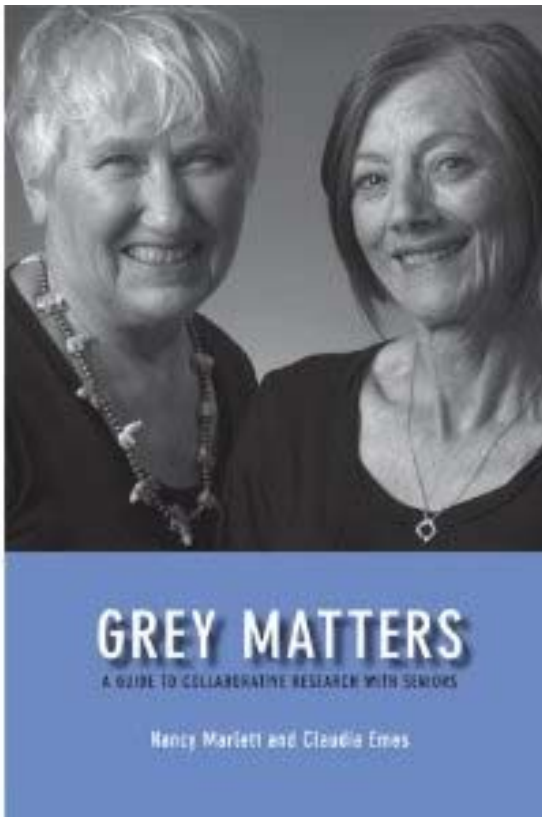
- Bring patient perspectives to the search for sustainable and effective health care
- Reframe the role of “patient” as a key stake holder in health care and research colleague
- Promote engagement in personal health and health care
- Improve the interface between patients and the health care system through research
- Patients will see themselves in PER research and literature and envision a new future in Health care.

Who are PaCERs?

- Patients and Family members who:
 - Self identify significant, life impacting experience with their health or health care
 - Are committed to health transformation
 - Are curious and interested in research
 - Can make the commitment to learning advanced research skills
- PaCERs bring diverse perspectives, business, health, academics, cultural expertise. All learn together and from each other.
- People interested in new career directions or volunteer opportunities.

The PACER Research Method

A Collaborative Framework for Engaging Patients in Research



- N Marlett and C Emes. *Grey Matters. A Guide to Collaborative Research with Seniors.* University of Calgary Press, 2010.

How does Patient Engagement Research differ from more traditional methods?

Patients are ***fully engaged in:***

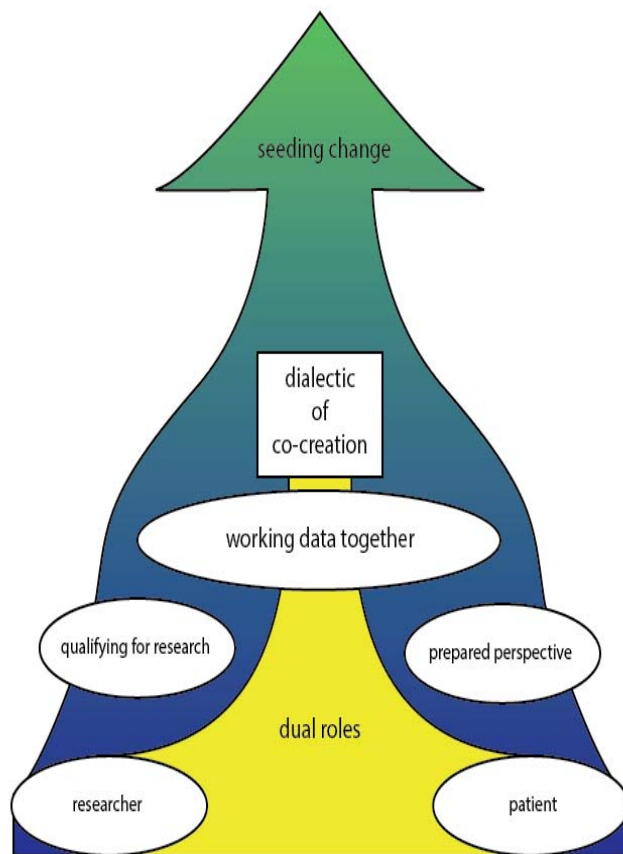
- Choosing research questions important to patients and their families and communities.
- Making decisions about how to collect and analyze information.
- Making decisions on how to communicate findings to other patients, professionals and the public.

Rigorous training involves mastering specific adapted methods of qualitative research: focus groups, field observation, questionnaires, and narrative interviewing.

A year-long training program =

120 hours in-class instruction plus an internship.

“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, et al. Building New Relationships in Research: A Model of Patient Engagement Research. *Qual Life Res* 2015;24(5):1057-67.
- Shklarov S, Marshall DA, Wasylak T, Marlett NJ. “Part of the Team”: Mapping the outcomes of training patients for new roles in health research and planning. *Health Expectations*, 2017;00:1-9

PaCER Project Example: Arthritis Models of Care

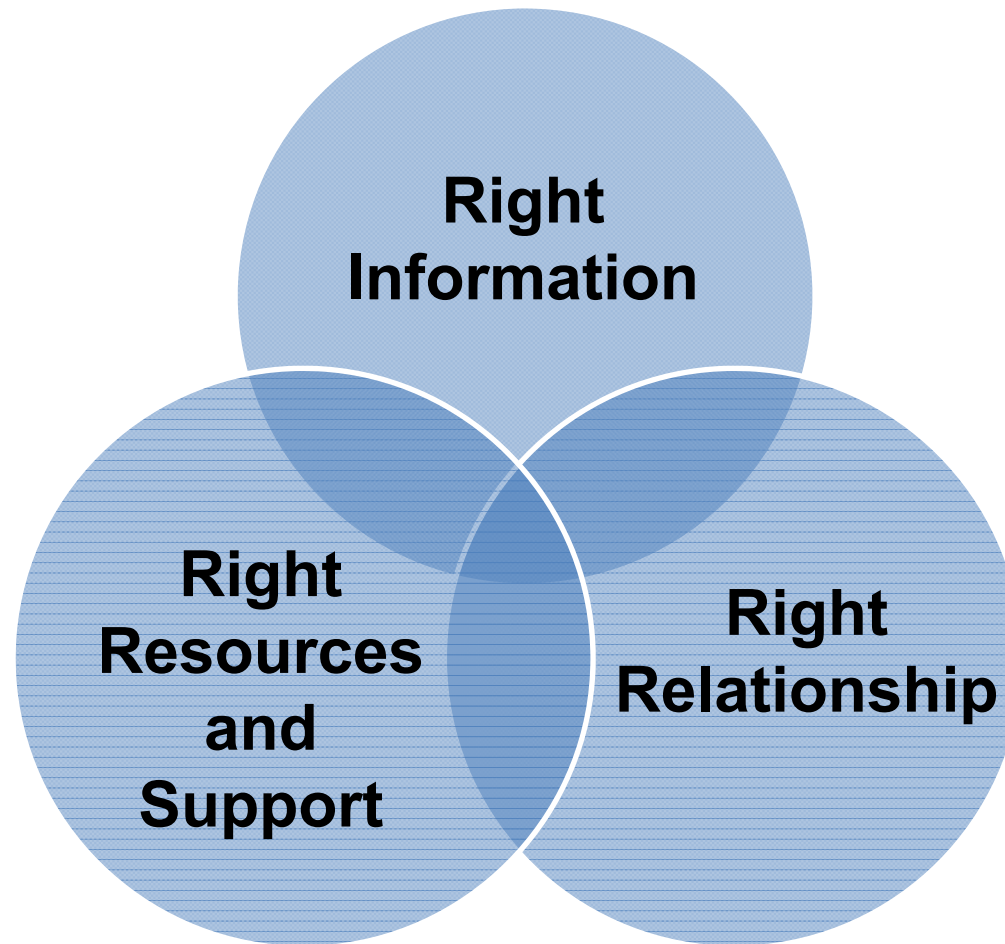


Purpose :

- Gather patients' perspectives on what quality-of-care means and
- Identify services and supports patients need and find most useful

- Partnership for Research and Innovation in the Health System (PRIHS) grant: Optimizing Centralized Intake to Improve Arthritis Care for Albertans (Funded by: Alberta Innovates Health Solutions and Arthritis Society Models of Care)

Three Components of Quality Care for People with Osteoarthritis



- Miller JL, Teare SR, Marlett N, Shklarov S, Marshall DA. Support for living a meaningful life with osteoarthritis: A patient-to-patient research study. *The Patient* Oct 2016; 9(5): 457-64.

Quality Care for Patients with OA Means...

- access to comprehensive, detailed and 'no-nonsense' information
- a personalized and evolving self-management plan
- access to evidence based information and OA expertise
- a collaborative ongoing relationship with health professionals
- greater access to system funded supports
- a system that recognizes the contributions of non-traditional supports

Are you interested in health research?



Are you a patient, caregiver or family?

Do you want physicians to understand
the experiences and expectations of patients and families?

Become a Patient Engagement Researcher.

Join the Patient and Community Engagement Research (PaCER) Program,
a free training program for patients
who want to be engaged in health research.

- Learn the methods of peer-to-peer research to bring forward patient experiences
- Acquire skills to design and conduct research about patient experience
- Gain career-based opportunities in health research
- Share the knowledge gained from research with patients and researchers



PaCER: PRELIMINARY ASSESSMENT OF IMPACT

- Canadian Academy of Health Sciences. *Making an Impact: A Preferred Framework and Indicators to Measure Returns on Investment in Health Research*. Ottawa, ON 2009

Early Impact of PaCER: Canadian Academy of Health Sciences Assessment Framework (1)



Advancing Knowledge

- Credit options for graduate and undergraduate students who meet the requirements: 2 faculties have used internship for credit.
- Over 150 presentations locally, provincially, nationally & internationally
- 12 peer-reviewed scientific publications, and 6 in preparation for submission
- 150 curriculum units in 17 topics of instruction related to patient engagement and engagement research
- Theoretical advancement of Patient Oriented Research Methods, Quality of Life, Salutogenesis, Grounded theory, Qualitative Health research, Engagement theory

- Wasylak T, Marshall DA, Shklarov S, McCarron T, Marlett NJ. Catalyst for change: A case study of two innovations in health transformation. Under review.

Early Impact of PaCER (2)



Building Capacity

- 42 Patients trained to work in research, advising, new patient leadership roles
- Internship base of sponsored teams, distance education pilot complete.
- Growing in number of PaCER research contracts, e.g. 18 research contracts
- Individual short term contracts are leading to ongoing research partnerships with research and quality improvement.
- New patient roles in health care based on engagement and research expertise, e.g patient navigators and coordinators
- Active social media
- Developing Patient Engagement Training programs with CIHR SPOR

Informing Decision Making

- 19 PaCERs embedded across 13 SCNs
- 15 employed by PaCER as research leads or assistants
- PaCERs on provincial and national committees e.g.CIHR SPOR

Health Impacts

- Implementation plans with 4 major health initiatives.

Socioeconomic impacts

- Anticipated, but too early to assess these impacts.

Sample of Patient Experience Research Projects



- Bone and Joint research (6 research studies)
- Surgery (ERAS, Safe surgery checklist, wait times)
- Intensive care: family and patient priorities (3)
- Intensive care: Cardiovascular (3)
- Advanced care planning South Asian communities
- Hidden pathways of Chronic Illness
- What works and how in community wellness centers
- Palliative and end of life care policy
- Aboriginal Rheumatoid arthritis care

Selected PaCER Publications



- Biondo PD, Kalia R, Khan RA, Boulton D, Marlett N, Shklarov S, Simon JE. Understanding advance care planning within South Asian communities. Health Expectations. 2016 (In press)
- Gill M, Bagshaw SM, McKenzie E, Oxland P, Oswell D, Boulton D, Niven DJ, Potestio M, Shklarov S, Marlett N, Stelfox HT. Patient researchers: An innovative approach to engage patients and families to identify priorities for improving critical care. BMJ. 2016 (In press)
- Miller JL, Teare SR, Marlett N, Shklarov S, Marshall DA. Support for living a meaningful life with osteoarthritis: A patient-to-patient research study. The Patient Oct 2016; 9(5): 457-64
- Haywood K, Brett J, Salek S, Marlett N, Penman C, Shklarov S, Norris C, Santana MJ, Staniszevska S. Patient and public engagement in health-related quality of life and patient-reported outcomes research: What's important and why should we care? Quality of Life Research 2015 May. 24(5):1069-76
- Stelfox H, Gill M, McKenzie E, Oxland P, Boulton D, Oswell D, Shklarov S, Bagshaw S. Patient and family member researchers in the ICU. Critical Care Medicine 2015 December. 43(12):141
- 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 May. 24(5): 1057-67
- Marlett NJ, Shklarov S. Interdisciplinary relationships and approaches in community mental health. International Journal of Disability, Community and Rehabilitation 2007. 6(2):2-7

Successes, Challenges and Myths

Successes	Challenges	Myths
<ol style="list-style-type: none">1. It is possible to engage patients as true part of the team2. Preliminary indications that we can transform the health system so it is more patient centered	<ol style="list-style-type: none">1. Overcoming traditional perspectives2. Doing things differently3. Payment for patients4. Capacity and Skills to Train5. Funding and Sustainability	<ol style="list-style-type: none">1. Engaging patients is easy2. All patients want to be engaged3. Everyone else on your team will support this idea

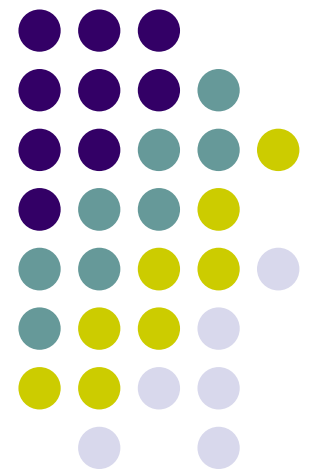
Acknowledgements

Thank You!

PACERs and the PACER Program Team
AHS Strategic Clinical Networks
SPOR IMAGINE Team



Questions?



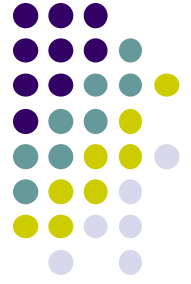
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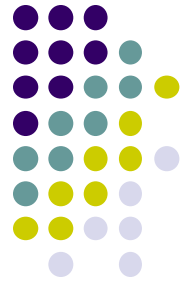
Unique Features of PaCER



- Patients become competent researchers, consultants and colleagues
- Strategic Clinical Networks™ are twin innovations for social change
- Engagement strategies increase data and analysis quality
- Based in Participatory Grounded theory
- Salutogenic theory informs patient experience

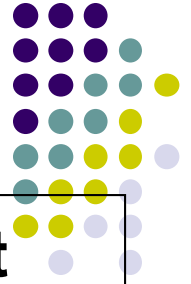
- Shklarov S, Marshall DA, Wasylak T, Marlett NJ. "Part of the Team": Mapping the outcomes of training patients for new roles in health research and planning. *Health Expectations*, 2017;00:1-9

PaCER Research Internship



- 1- year long internship for non credit or credit at undergraduate or graduate level
- Design conducting and share group research
- Theory and practice course work (three courses, credit option)
- Sponsorships (field mentors) to build capacity in specific fields (eg. Osteoarthritis, Surgery, Heart, Stroke, Mental Health)

How is PER Different?



Traditional Patient Advisor

1. Patient represents *individual story - personal perspective*
2. Patient input is based on *solid individual knowledge, expertise*
3. Trained by the AHS on *how to contribute effectively*
4. Capacity *to convey* patient expertise
5. Advisory contribution
6. Time commitment: individual presence

Patient Engagement Research (PER)

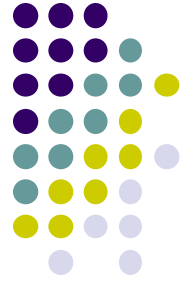
1. Patient researcher represents *general analysis* of collective patient perspective
2. Patient researcher's input is based on patient experience + *credible unbiased research*
3. Trained in *conducting valid research and reporting results without bias; rigorous training*
4. Capacity *to engage other* patients and public and capture their ideas
5. Potentially, consulting-type contribution
6. Time commitment: *hours invested in skilled research work* to make contribution



PaCER Governance Structure

- **Advisory Board:** Dr. John Lacey (Chair) with co chairs (one a patient) of teams: Science, Education, Enterprise, Grants and Innovation, Partnerships.
- **Infrastructure:** Director (in kind U of C), part time admin and research coordination, communications (mix of volunteers and paid staff from business)
- **PaCER teams:** Research lead, internship mentor, researchers paid by contracts and interns supported by sponsorships.

PaCER - Social Enterprise Model



- Contract business with U Calgary
- Profits are reinvested towards social good – improving the interface between patients and health system
- Small business-like structure to encourage and foster experimentation

PaCER Services:

- Consultation, support and resources
- Year-long internship for patients in Engagement research done by patients, with patients
- pacerinnovates, a service unit providing contracted supports patient led research as part of existing grants and projects
- Support for publication and implementation

IMAGINE Chronic Disease Network IBD, IBS, Crohns, Colitis and the microbiome



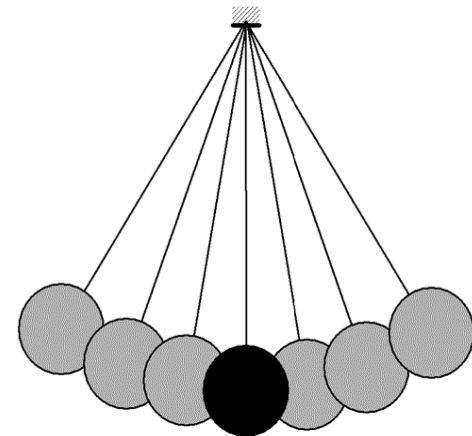
Overview: Patient engagement research about patient experience and the interface between patients and the health care system. We aim to:

- Build capacity for patient engagement research within the digestive health community, including training and support
- Develop priorities for IBS/CD/UC microbiome research
- Identify what is important to patients and measure patient preferences by quantifying trade-offs amongst symptoms and treatment options
 - Preferences for faecal transplant treatment
 - What is the willingness of patients to provide stool samples for microbiome?
 - Amongst the risks and benefits of stopping treatment?

What is it Like to Live with IBD?

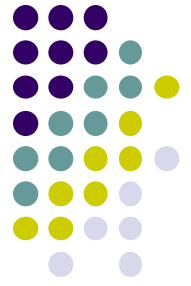


- Sponsor, Dr. Remo Panaccioni, Director of IBD, Foothills Hospital
- PaCERS Claire Fairs and Amy van Engelen
- 3 focus groups, 6 individual interviews. Total of 21 patient and family member participants.
- Paradigm:
 - Manifestations of IBD
 - Medical System Challenges
 - Their New Normal
 - Living the New Normal



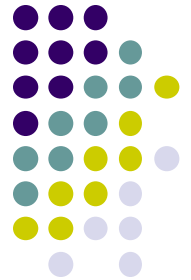
The Emotional and Physical Pendulum

Key Findings and Recommendations

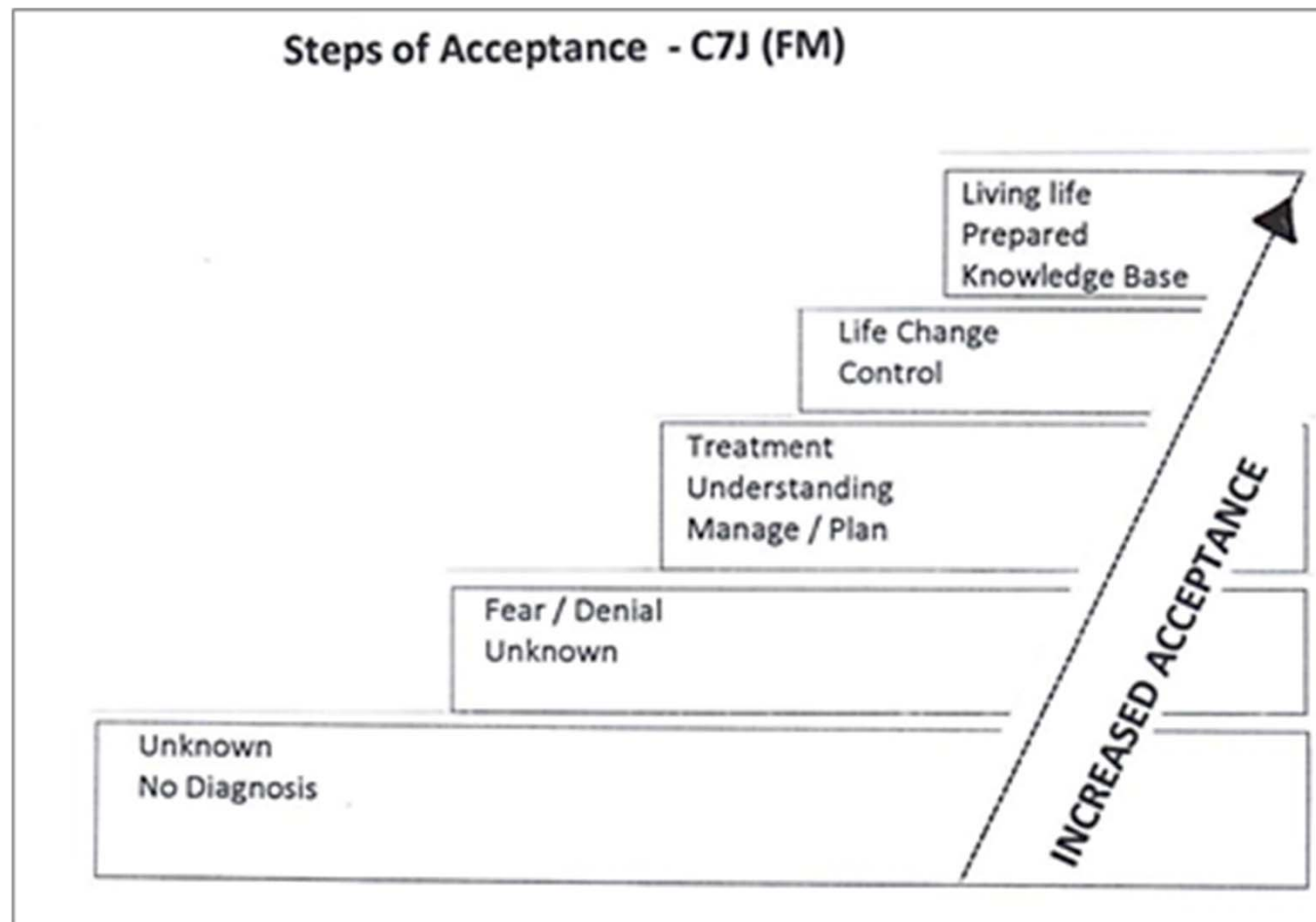
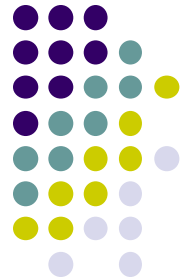


- Patients wish to be seen as a whole. From the physical manifestations of the disease to the social and psychological pieces, patients want to be treated in a holistic manner so that they can find peace and their highest level of wellbeing.
- Peer support is crucial for patients as is continuous education in the form of reliable online resources and symposiums.
- The use of medical coaching whether in the form of patient experts, medical navigators to coaches to help coordinate, review and ensure all areas of each patient is assessed.
- Patients were clear on the areas that are being missed or lacking and recommended a centralized IBD unit would be beneficial to their overall health and wellbeing.

Reflections on Living with IBD - By Patients



Reflections on Living with IBD - By Family Members





Cancer Care Ontario

PROs and Symptom Management Program Overview

**LESLEY MOODY, Director,
Person-Centred Care**

Patient-Reported Outcomes and Symptom Management Program

STRATEGIC FRAMEWORK 2016-2019 *At a glance*



The Strategic Framework is anchored by PROs and Symptom Management Program's goal, mandate, and focus areas.

Goal: To ensure that patients receive responsive and respectful care that is based on best evidence and optimizes their quality of life across the cancer care continuum.

Mandate: To support the implementation of patient reported outcomes and symptom management to improve person-centred care across Ontario.

Focus Area	Selection & Implementation	Patient & Families	Symptom Management & Interdisciplinary Teams	Technology	Research & Improvement
Definitions	The defined method and oversight of how new PROs will be introduced and maintained in the Ontario cancer system	How patients and families will be educated, engaged and activated during the implementation of PROs	Support and engagement of the clinical team for the adoption of PROs and improvement in symptom management	The technology and information management tools and systems used to facilitate PROs data collection and analysis	How PROs and Symptom Management data are harnessed and leveraged to learn and improve
Outcome	Sustained adoption of suitable PROs in Ontario's cancer system	Patients and families who are activated to participate in the assessment and management of their symptoms	Clinical teams using PROs and symptom assessments to effectively respond to the symptoms of patients	Effective analytics capabilities and collaboration between IM/IT (information management information technology) partners to ensure an excellent user experience	Using data effectively for research, quality improvement initiatives, outcome evaluation and planning
Initiatives	<ul style="list-style-type: none"> Develop a pipeline to support the selection, implementation and sustained adoption of suitable PROs Create a governance structure, core processes and guiding principles to support the implementation and roll-out of PROs Expand PROs to new settings to enhance the spread, scale and impact of PROs in Ontario while ensuring congruence among existing PROs and new PROs 	<ul style="list-style-type: none"> Support patients in self-managing their symptoms by implementing an approach to promote patient education that: <ul style="list-style-type: none"> Allows patients and families to understand the value of PROs Provides patients with the skills, resources and confidence to be activated in symptom management Creates a patient-safe environment where patients can discuss their symptoms Create a strategy to effectively engage patient and family advisors in the implementation of new and existing PROs to ensure a person-centred focus 	<ul style="list-style-type: none"> Implement a strategy to measure the clinical teams' response to PROs Implement relevant clinical toolkits that are adaptable to local settings Recruit and leverage Clinical Champions to promote the implementation of PROs Collaborate with internal partners to define roles and responsibilities to support symptom management Create a strategy to clearly articulate the value of PROs to clinician teams 	<ul style="list-style-type: none"> Develop IM/IT requirements for PROs through engagement with internal and external stakeholders Collaborate with IM/IT partners to define roles and responsibilities to support PROs and symptom management Develop and enhance reporting and analytics capabilities to evaluate and report on PROs 	<ul style="list-style-type: none"> Leverage Cancer Care Ontario data assets to inform and improve the PROs implementation pipeline Develop a research strategy in collaboration with internal and external partners Embed an evaluation framework into appropriate initiatives Support local quality improvement projects and planning

PROMs – Evidence base is growing rapidly

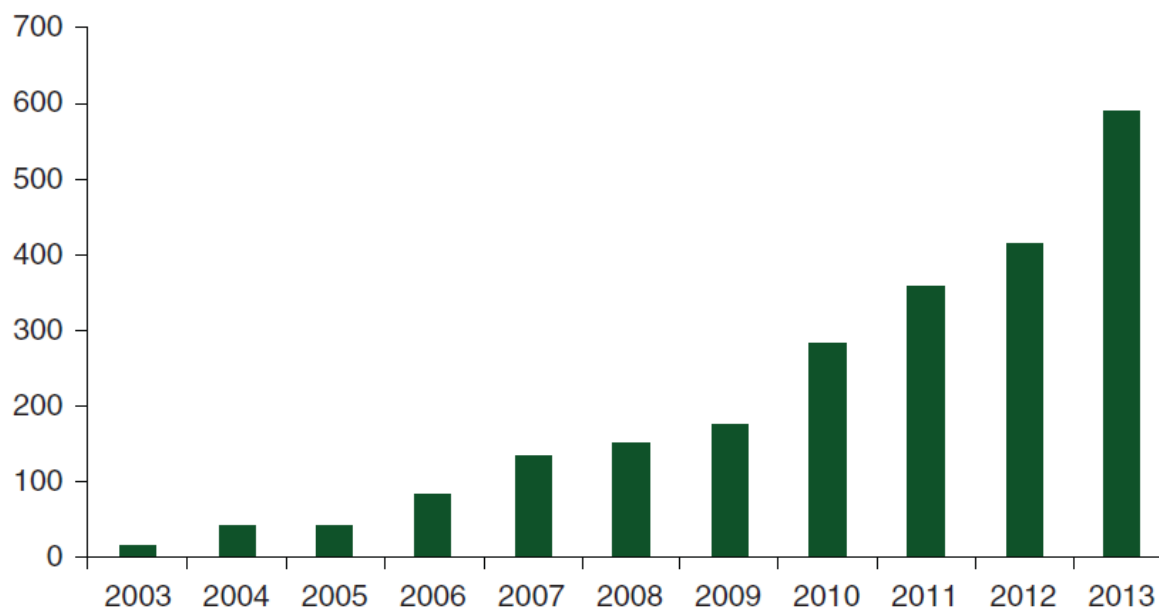


Figure 1. Trend of published articles citing PROMs as a MeSH Term in PubMed from 2003 to 2013. Source: GoPubMed (PubMed Trend Analysis Tool).

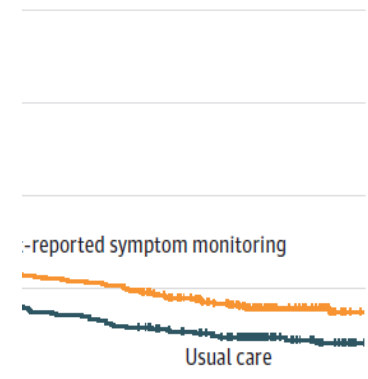
What Is the Value of the Routine Use of Patient-Reported Outcome Measures Toward Improvement of Patient Outcomes, Processes of Care, and Health Service Outcomes in Cancer Care? A Systematic Review of Controlled Trials

Grigorios Kotronoulas, Nora Kearney, Roma Maguire, Alison Harrow, David Di Domenico, Suzanne Croy, and Stephen MacGillivray

Metastatic Cancer Assigned to Electronic Patient-Reported Symptom Monitoring vs Usual Care

The effect of real-time electronic monitoring of patient-reported symptoms and clinical syndromes in outpatient workflow of medical oncologists: E-MOSAIC, a multicenter cluster-randomized phase III study (SAKK 95/06)

F. Strasser^{1†*}, D. Blum^{1,2†}, R. von Moos³, R. Cathomas³, K. Ribi⁴, S. Aebi⁵, D. Betticher⁶, S. Hayoz⁷, D. Klingbiel⁷, P. Brauchli⁷, M. Haefner⁸, S. Mauri⁹, S. Kaasa² & D. Koeberle¹⁰, on behalf of Swiss Group for Clinical Cancer Research (SAKK)



- 1) Usual care
- 2) PRO group reported (National Terminology)

- Scores indicated triggered a symptom report generated at each oncology visit.

- Integration of PROs in routine care patients with metastatic cancer was associated with increased survival compared with usual care.

JOURNAL OF CLINICAL ONCOLOGY

ORIGINAL REPORT

Symptom Monitoring With Patient-Reported Outcomes During Routine Cancer Treatment: A Randomized Controlled Trial

Ethan Basch, Allison M. Deal, Mark G. Kris, Howard I. Scher, Clifford A. Hudis, Paul Sabbatini, Lauren Rogak, Antonia V. Bennett, Amylou C. Dueck, Thomas M. Atkinson, Joanne F. Chou, Dorothy Dulko, Laura Sit, Allison Barz, Paul Novotny, Michael Fruscione, Jeff A. Sloan, and Deborah Schrag

Basch, E., et al. (2017).

Symptom Monitoring During Routine Cancer Treatment. *JAMA*, 318(2): 197-198.



Cancer Care Ontario

for

PROMs can be generic or condition specific

	Strength	Limitation
Generic Measure	<ul style="list-style-type: none">• Allows for comparability across patients/populations with different conditions• Allow assessments in terms of normative data• Can be given to individuals without specific conditions• Enable differentiation of different groups based on index of overall health or well being	<ul style="list-style-type: none">• Less sensitive to change• May fail to capture important condition specific constructs
Condition Specific Measure	<ul style="list-style-type: none">• Greater sensitivity to change because focus on concerns pertinent to a specific condition• Enable differentiation of groups based on specific symptom or concerns	<ul style="list-style-type: none">• Introduced difficulty of making comparisons across patient population with different conditions

Patient Reported Outcome Tools

Your Symptoms Matter – Prostate Cancer

CCO Cancer Care Ontario

Expanded Prostate Cancer Index Composite for Clinical Practice (EPIC-CP)
Prostate Cancer Quality of Life (QOL)

Patient Name: _____ Date of Birth: _____
Physician: _____ Date of Visit: _____

Patients: Please answer the following questions by circling the appropriate answer. All questions are about your health and symptoms in the LAST FOUR WEEKS.

Select ONE answer for each question:

1. Overall, how much of a problem has your urinary function been for you?

No Problem	Very small problem	Small problem	Moderate problem	Big problem
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2. Which of the following best describes your urinary control?

0-Total control	1-Occasional dribbling	2-Frequent dribbling	3-4-No urinary control
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3. How many pads or adult diapers per day have you been using for urinary leakage?

0-None	1-One pad per Day	2-Two pads per Day	3-Three or more pads
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4. How big a problem, if any, has urinary dripping or leakage been for you?

0-No problem	1-Very small problem	2-Moderate problem	3-Big problem
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CLINICIANS: Add the answers from questions 2-4 to calculate the Urinary Incontinence Symptom Score (out of 10)

5. How big a problem, if any, has each of the following been for you?

	No problem	Very small problem	Small problem	Moderate problem	Big problem
a. Pain or burning with urination	0	1	2	3	
b. Weak urine stream/incomplete bladder emptying	0	1	2	3	
c. Need to urinate frequently	0	1	2	3	

CLINICIANS: ADD the answers from questions 5a-5c to calculate the Urinary Irritation/Obstructive Symptom Score (out of 10)

6. How big a problem, if any, has each of the following been for you?

	No problem	Very small problem	Small problem	Moderate problem	Big problem
a. Rectal pain or urgency of bowel movements	0	1	2	3	
b. Increased frequency of your bowel movements	0	1	2	3	
c. Overall problems with your bowel movements	0	1	2	3	
d. Bloody stools	0	1	2	3	

CLINICIANS: ADD the answers from questions 6a-6d to calculate the Bowel Symptom Score (out of 10)

7. How do you rate your ability to reach orgasm (climax)?

0-Very good	1-Good	2-Fair	3-Poor	4-Very poor to no
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8. How would you describe the usual quality of your erections?

0-Firm enough for intercourse	1-Firm enough for masturbation and foreplay	2-Not firm enough for any sexual activity	3-None
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9. Overall, how much of a problem has your sexual function been for you?

0-No problem	1-Very small problem	2-Small problem	3-Moderate problem	4-Big problem
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a.k.a EPIC

Your Symptoms Matter – General Symptoms

Cancer Care Ontario
Action Cancer Ontario

Edmonton Symptom Assessment System:
(revised version) (ESAS-R)

Please circle the number that best describes how you feel NOW:

No Pain	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Pain
No Tiredness (Tiredness = lack of energy)	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Tiredness
No Drowsiness (Drowsiness = feeling sleepy)	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Drowsiness
No Nausea	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Nausea
No Lack of Appetite	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Lack of Appetite
No Shortness of Breath	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Shortness of Breath
No Depression (Depression = feeling sad)	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Depression
No Anxiety (Anxiety = feeling nervous)	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Anxiety
Best Wellbeing (Wellbeing = how you feel overall)	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Wellbeing
No Other Problem (for example constipation)	0	1	2	3	4	5	6	7	8	9	10	Worst Possible

Completed by (check one):
☐ Patient
☐ Family caregiver
☐ Health care professional caregiver
☐ Caregiver-assisted

ESAS-R
Revised November 2010

a.k.a ESAS

Your Symptoms Matter – Daily Activities

Cancer Care Ontario
Action Cancer Ontario

Patient Reported Functional Status (PRFS) Tool

Activities & Function: Over the past month I would generally rate my activities as:

0- Normal with no limitations
1- Not my normal self, but able to be up and about with fairly normal activities
2- Not feeling up to most things, but in bed or chair less than half the day
3- Able to do little activity & spend most of the day in bed or chair
4- Pretty much bedridden, rarely out of bed

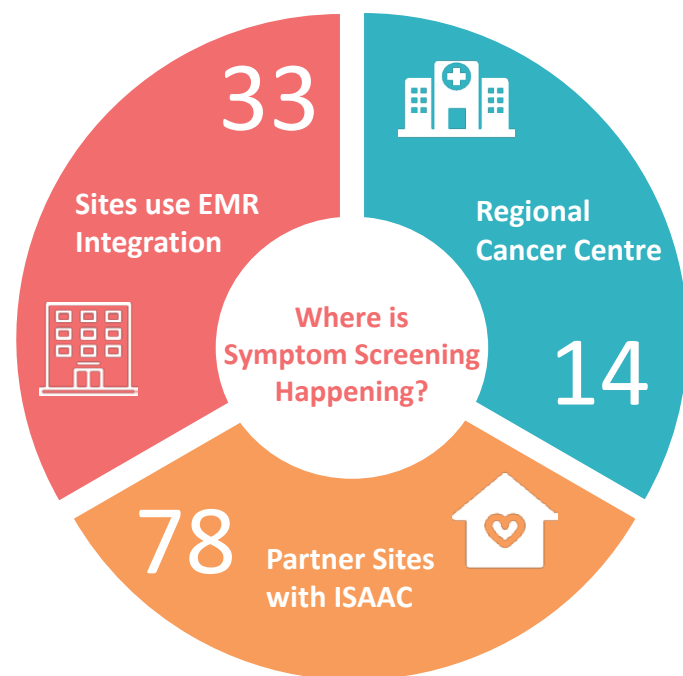
Completed by (check one):
☐ Patient
☐ Family caregiver
☐ Health care professional caregiver
☐ Caregiver-assisted

Used with Permission from FD Ottery, 2011

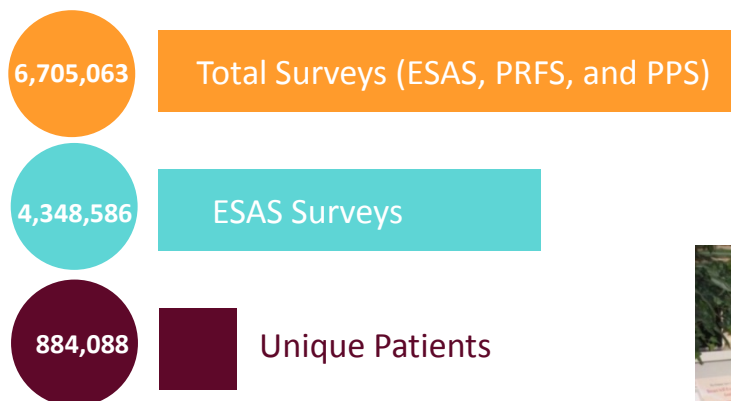
a.k.a PRFS



Cancer Symptom Screening in Ontario



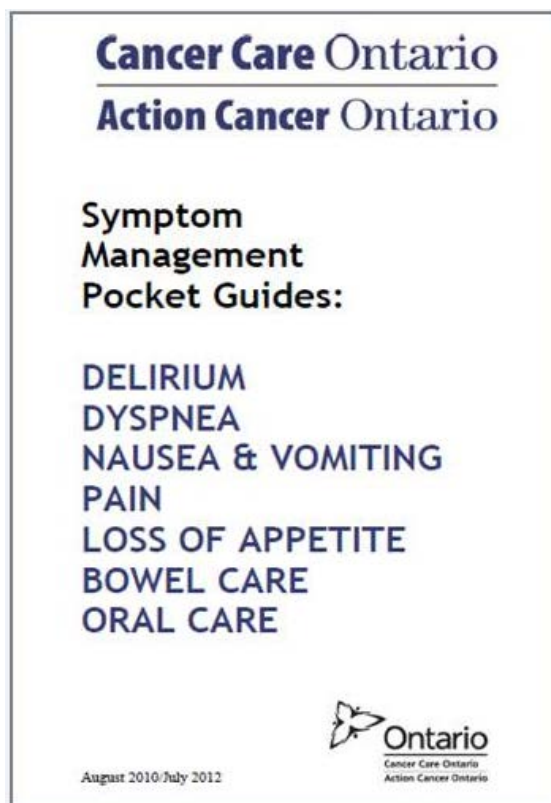
What is the Volume of Surveys in ISAAC?



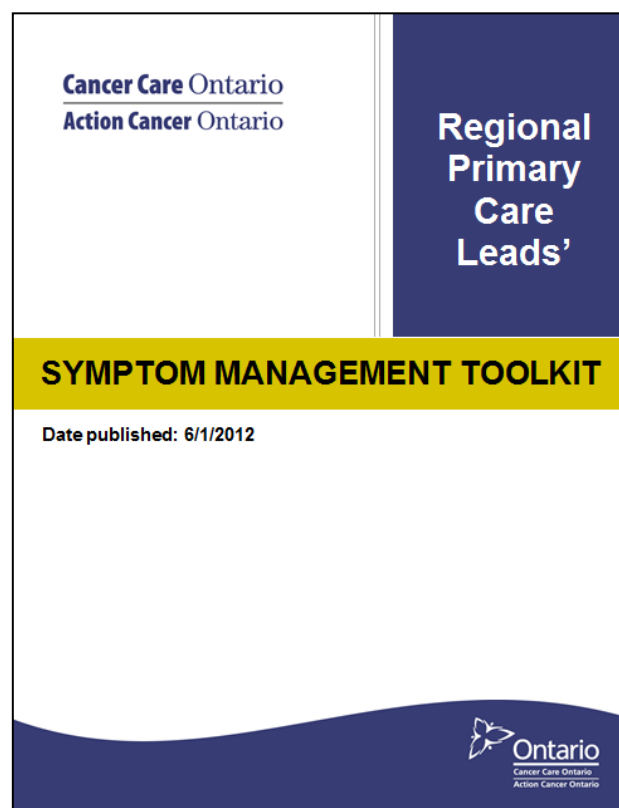
Symptom Screening Kiosk (above)

Multiple Tools Needed for Symptom Management

Symptom Management Guides to Practice



Symptom Management Toolkits



Patient Symptom Management Guides

How to Manage Your Fatigue



This patient guide will help you understand:

What is cancer-related fatigue?	pg 2
What causes cancer-related fatigue?	pg 3
What can I do to manage my fatigue?	pg 4
When should I talk to my health care team?	pg 12
Where can I get more information?	pg 14

This patient guide provides information for people who have cancer-related fatigue before, during or after cancer treatment. It can be used by patients and the patient's family, friends or caregivers.

Patient Experience with Your Symptoms Matter – General (ESAS)

92%

- Thought ESAS was important to complete as it helps health care providers know how they are feeling

89%

- Agreed that their physical symptoms have been controlled to a comfortable level

86%

- Agreed that their health care providers took into consideration ESAS symptom ratings in developing a care plan

83%

- Agreed that their care team responded to their feelings of anxiety or depression

62%

- Indicated that their healthcare team talked with them about their ESAS symptom rating



Performance management

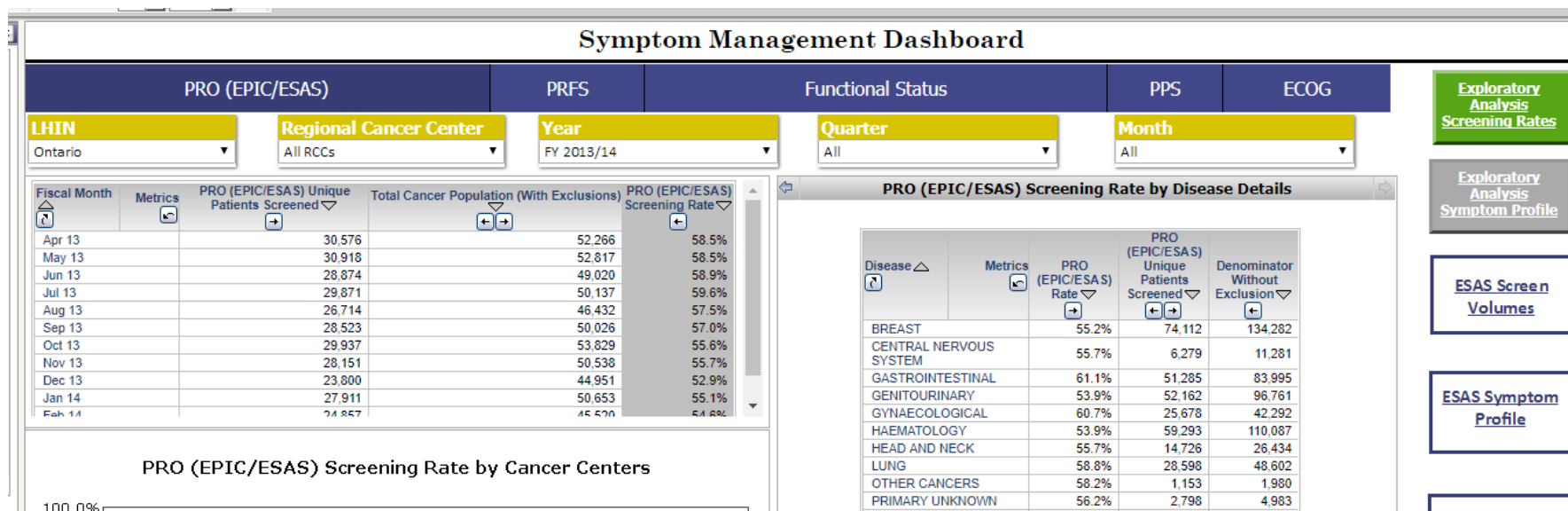
PROs Screening Rate

- A monthly screening rate measures the uptake of PROs among cancer patients in Ontario

Number of Cancer Patients who were screened at least once with ESAS or EPIC in a given month

Number of Cancer Patients seen by a RCC in a given month

$\times 100 = \text{PROs Screening Rate (\%)}$



Improving Response to Symptom Screening in Ontario

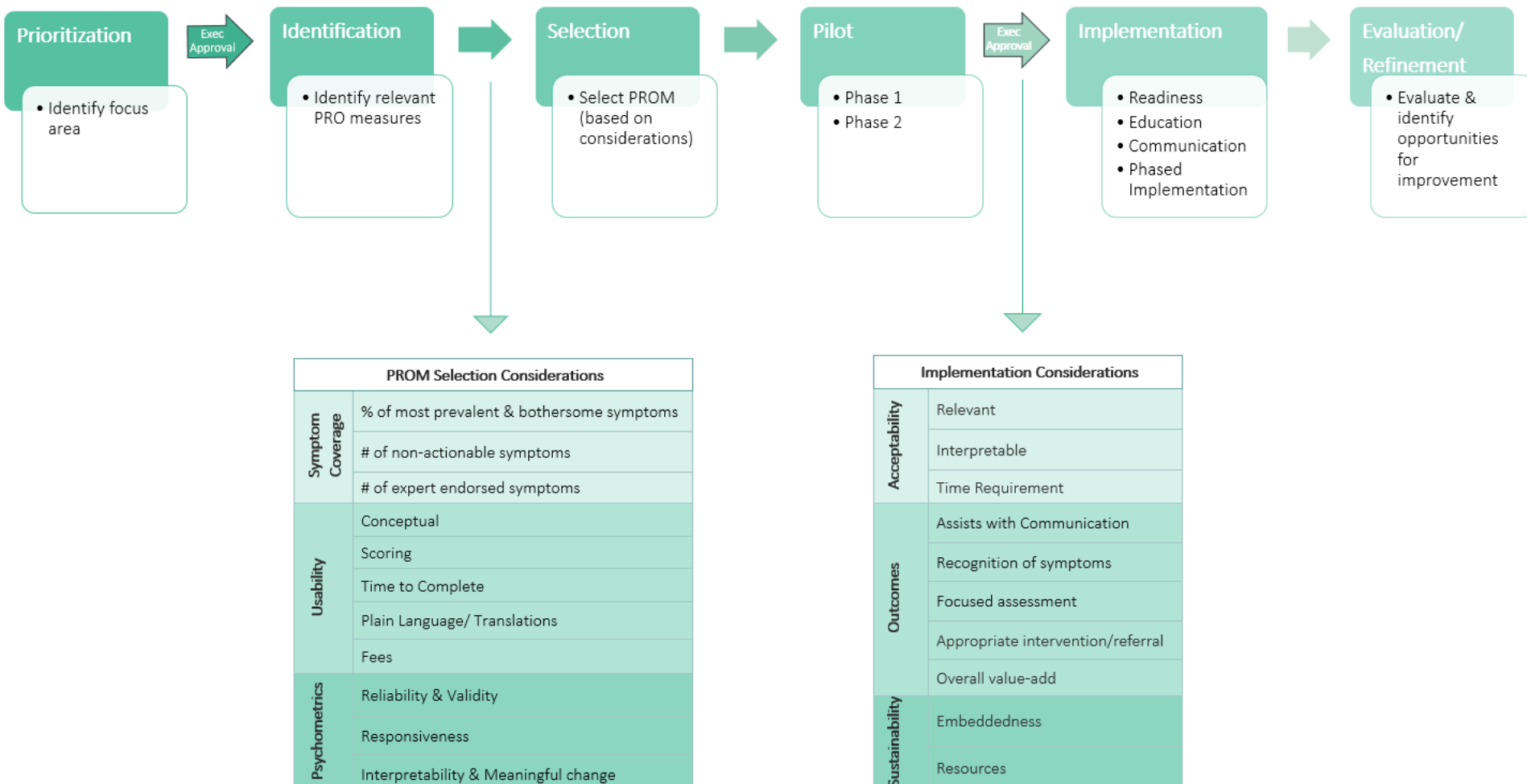
Chart Audits

- Acknowledgement of symptom
- Assessment of symptom

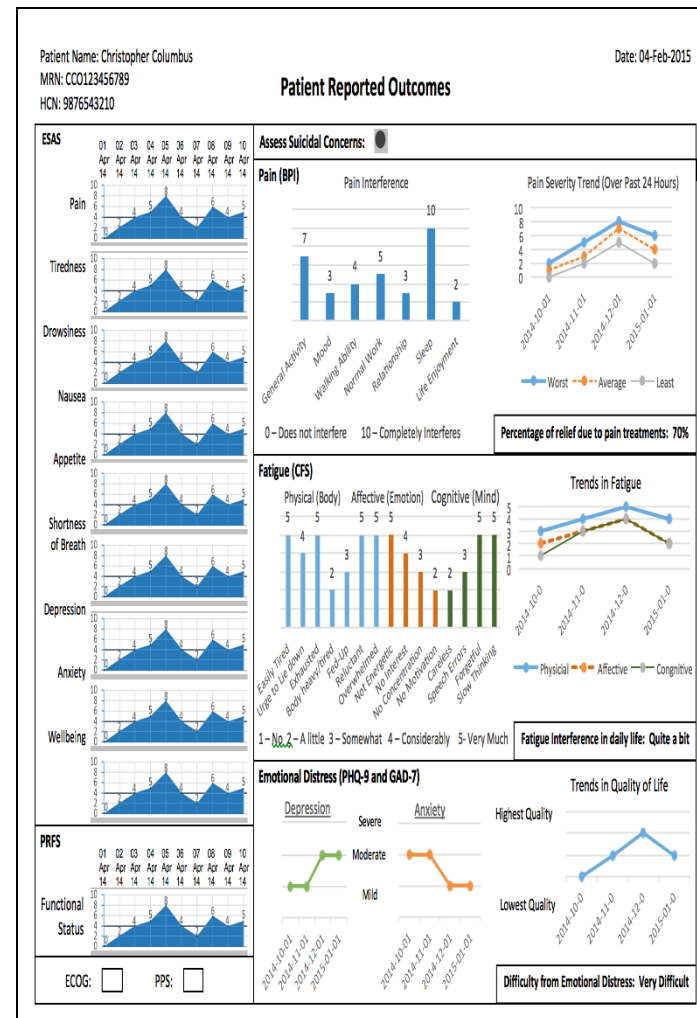
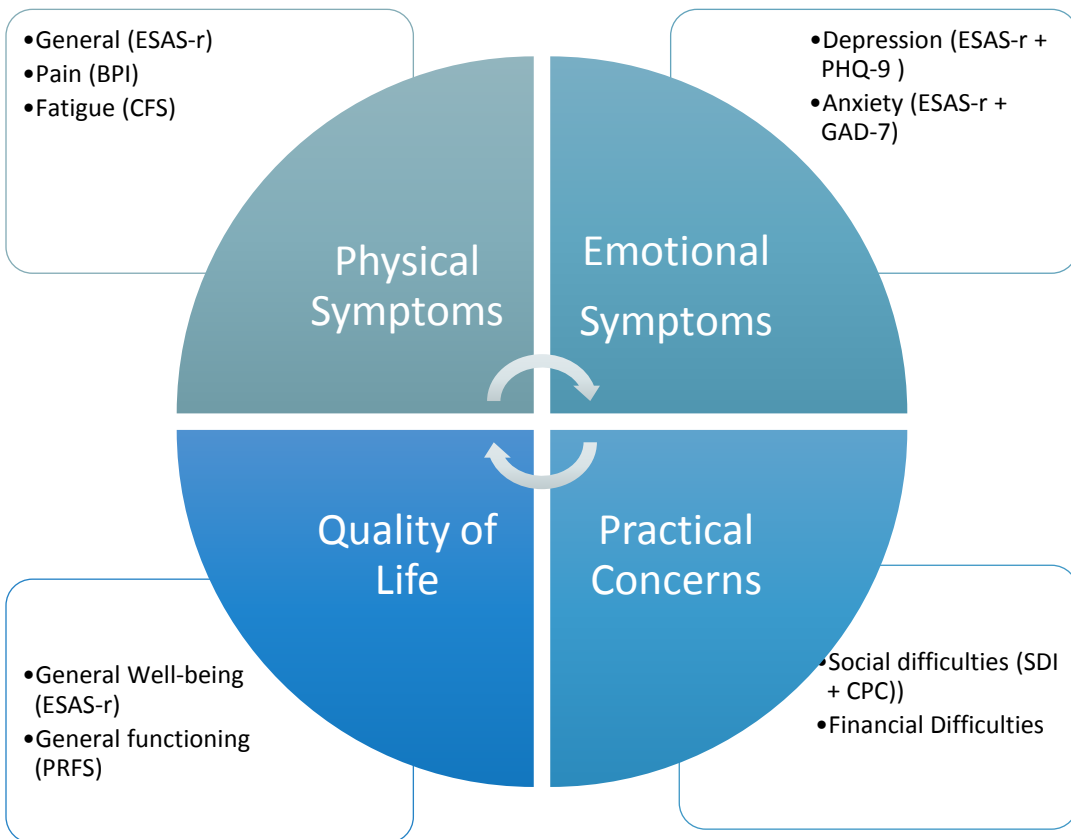
In 2016/17 RCCs audited 2,375 charts based on moderate to severe ESAS scores on the following symptom domains: depression, pain, fatigue, dyspnea, nausea, anxiety, and lack of appetite.

		Acknowledgement		Assessment		Intervention/Management plan
Was this the patient's most important symptom? (Y/N)	Was this symptom addressed on the patient's last visit? (Y/N)	Is the symptom mentioned in the provider's documentation? (Y/N)	Which provider gave documentation? (select all that apply)	If a conversation with the patient took place, what components of the patient's symptom experience were assessed? (select all that apply)	Were additional tests suggested? (Y/N)	What intervention was provided? (select all that apply)

PROM Implementation Pipeline



iPEHOC- Patient Reported Outcomes A Person-Centered Measurement Information System



Your Symptoms Matter Prostate Cancer



Education, Training, and Resources

- Worked with Regions to identify education and training needs for patients, providers, staff and volunteers
- Partnered with Communications and Web-team to build online asset hub as central location for all implementation resources
- Engaged ISAAC product team at CCO to develop guidelines for EMR integration
- EPIC translated into 37 languages including Ojicree, Algonquin, Cree, and Inuktitut

Home | Français | Media | Careers

Cancer Care Ontario
Action Cancer Ontario

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About CCO | Ontario Cancer System | Prevention & Care | Research | CCO Toolbox | QuickLinks


Share f t in

Prevention & Care

- Cancer Care Overview
- Types of Cancer
- Primary Care Program
- Person-Centred Care**
 - Patient and Family Engagement
 - Patient and Family Advisor Volunteer Opportunities
 - Person-Centred Care: A Year in Review
 - Person-Centred Care Guideline
 - IPEHOC Toolkit
 - Patient Experience Week
- Prevention
- Screening
- Diagnosis
- Treatment
- Palliative Care

Your Symptoms Matter Resources

Your Symptoms Matter is the new name for the symptom screening kiosk and tools. It is a set of questionnaires that let patients tell their health care team about their symptoms and how they are feeling. Patient responses are shared and reviewed with their health care team to help make decisions on how to best manage their symptoms. The new name will be rolled out at all centres in early October 2016.



Centres will also be rolling out **Your Symptoms Matter – Prostate Cancer** in a phased approach, starting at three locations in October 2016 and continuing to the remaining locations in 2017. This questionnaire is designed to measure symptoms specific to men with prostate cancer who are not on chemotherapy.

All Your Symptoms Matter questionnaires can be found on the [Symptom Assessment and Management Tools](#) page.

Please use the Your Symptoms Matter documents on this resource page to share and promote Your Symptoms Matter at your centre.

**Please use the Your Symptoms Matter – Prostate Cancer documents to share and promote the prostate specific questionnaire when it rolls out at your centre.*

Content:

Please view and select an asset below to download.

Your Symptoms Matter Prostate Cancer Technical Documents		
Asset	Description	Download
Your Symptoms Matter Posters	Posters to drive awareness for Your Symptoms Matter and encourage participation	<ul style="list-style-type: none">8.5 x 11 Poster (English)8.5 x 11 Poster (French)





How is Industry...

Harnessing the Power of Data to Improve the Patient Experience

Michael Duong, Ph.D.
Hoffmann-La Roche Ltd.

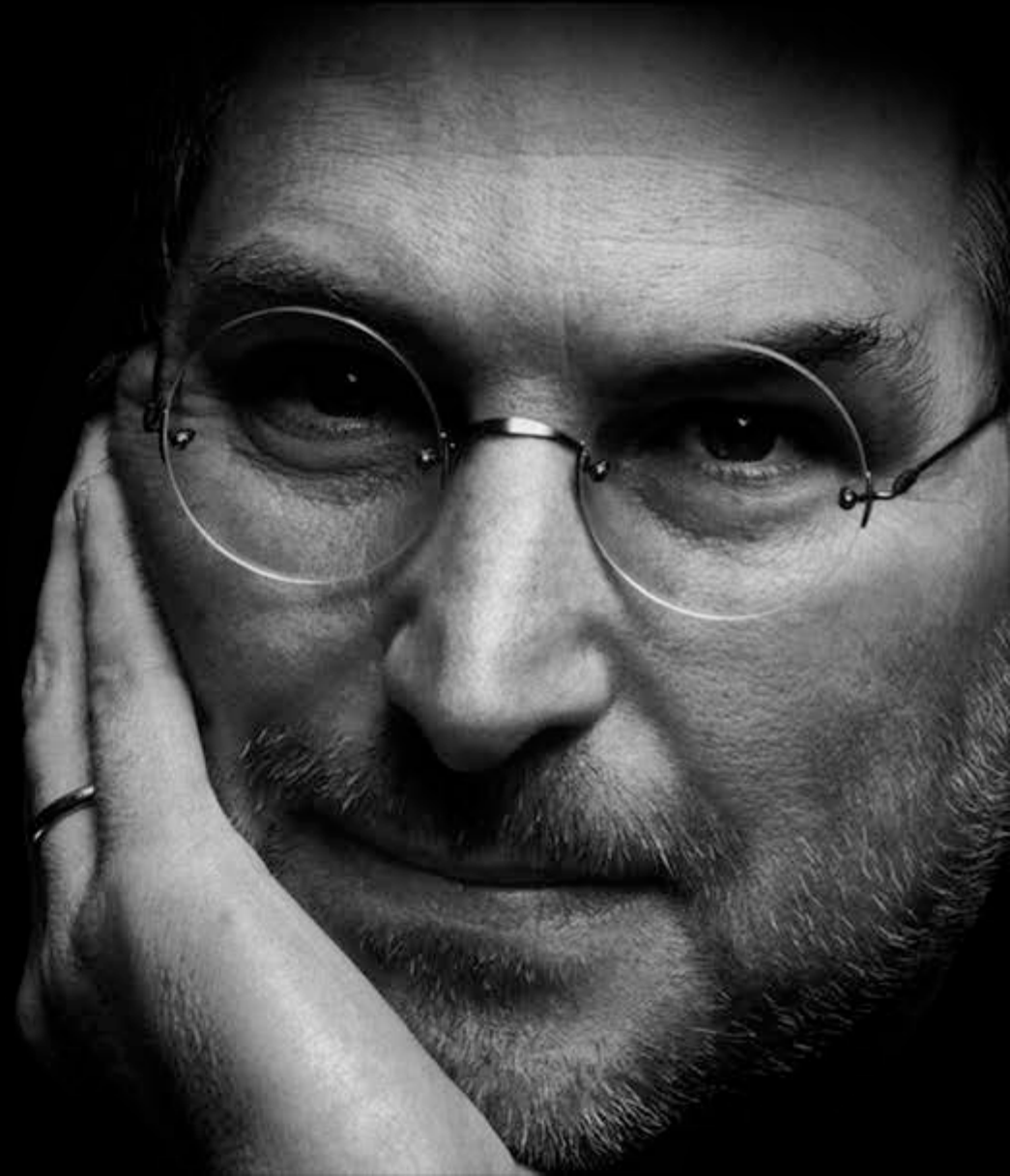
Monday, October 23, 2017
MaRS Discovery District, Toronto

Disclosure Statement

- ▶ Employed by Hoffmann-La Roche Ltd.
- ▶ The opinions expressed in this presentation are my own and may not reflect the opinions of Hoffmann-La Roche Ltd.

*"I think the biggest innovations of the
twenty-first century will be the
intersection of biology and technology.
A new era is beginning..."*

*~Steve Jobs
(1955-2011)*



Determinants of Health Outcomes

60%

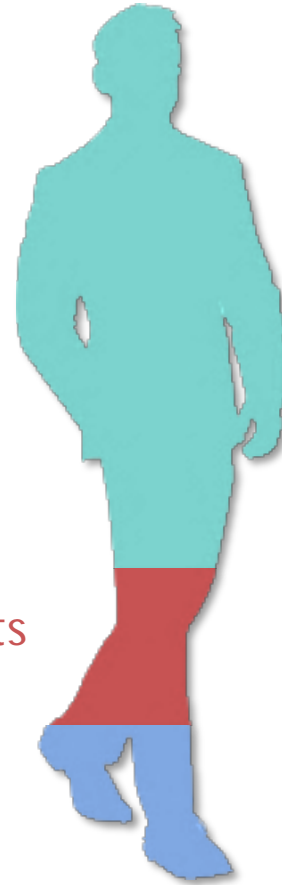
Exogenous determinants
(behaviour, socio-economic,
environment, etc.)

30%

Genetic
determinants

10%

Medical/clinical
determinants



1,100 terabytes
generated per lifetime of a person

6 terabytes
generated per lifetime of a patient

0.4 terabytes
generated per lifetime of a patient

Better and Faster Access to Higher Quality Medicines and Health Technologies



*Research
&
Development*



*Clinical
Trials*

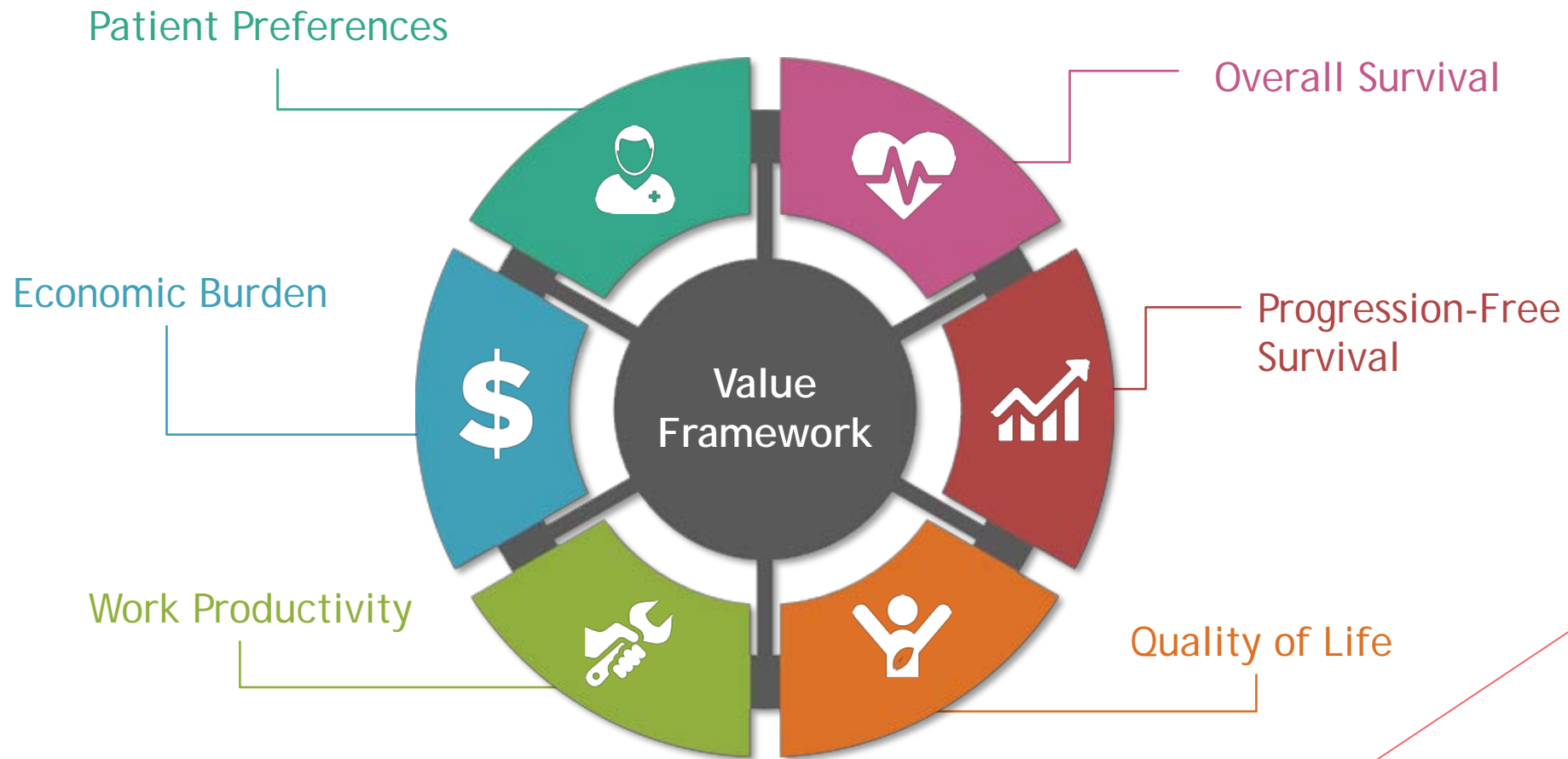


*Regulatory
& Market
Access*



*Real World
Performance*

Evidence to Support Expansion of the Value Framework



Challenges



"Big data" and population size in Canada

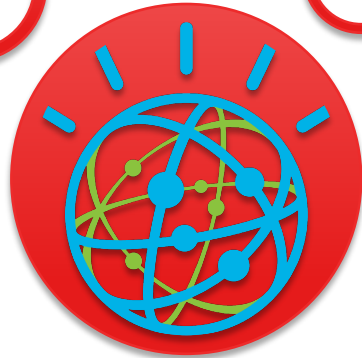
Disparate health information systems

Data-borders and varying levels of data governance

Infrastructure development

Key Technologies for a Brighter Future

Blockchain



*Machine
Learning*



Cloud Computing

Harnessing the Power of Data to Improve the Client Experience

Rodney Burns, BSc(Hons), MHA, CHE, CPHIMS-CA
Chief Information Officer/Chief Privacy Officer

Monday, October 23, 2017
MaRS Discovery District, Toronto



109 Community-Governed, Comprehensive Primary Health Care Organizations

AOHC members are unified and organized:

- 74 Community health centres (CHCs)
- 10 Aboriginal health access centres (AHACs)
- 15 Nurse Practitioner Led Clinics (NPLCs)
- 10 Community Family Health Teams (CFHTs)

AOHC Member Differentiators

- ▶ Only part of the Primary Care sector with
LHIN accountability contracts
- ▶ Serving 600,000/5% of Ontario's population
- ▶ Serving those who face barriers to health
(e.g. linguistic, cultural, homelessness, education
social isolation, economic, etc.)
- ▶ Salaried clinical teams

AOHC Member Differentiators (cont'd.)

Model of Health and Wellbeing



Model of Wholistic Health & Wellbeing



Consumer Health: Four Client Archetypes

Healthy & Motivated	Unhealthy & Motivated
Healthy & Unmotivated	Unhealthy & Unmotivated

How can we meaningfully engage all 4 types?

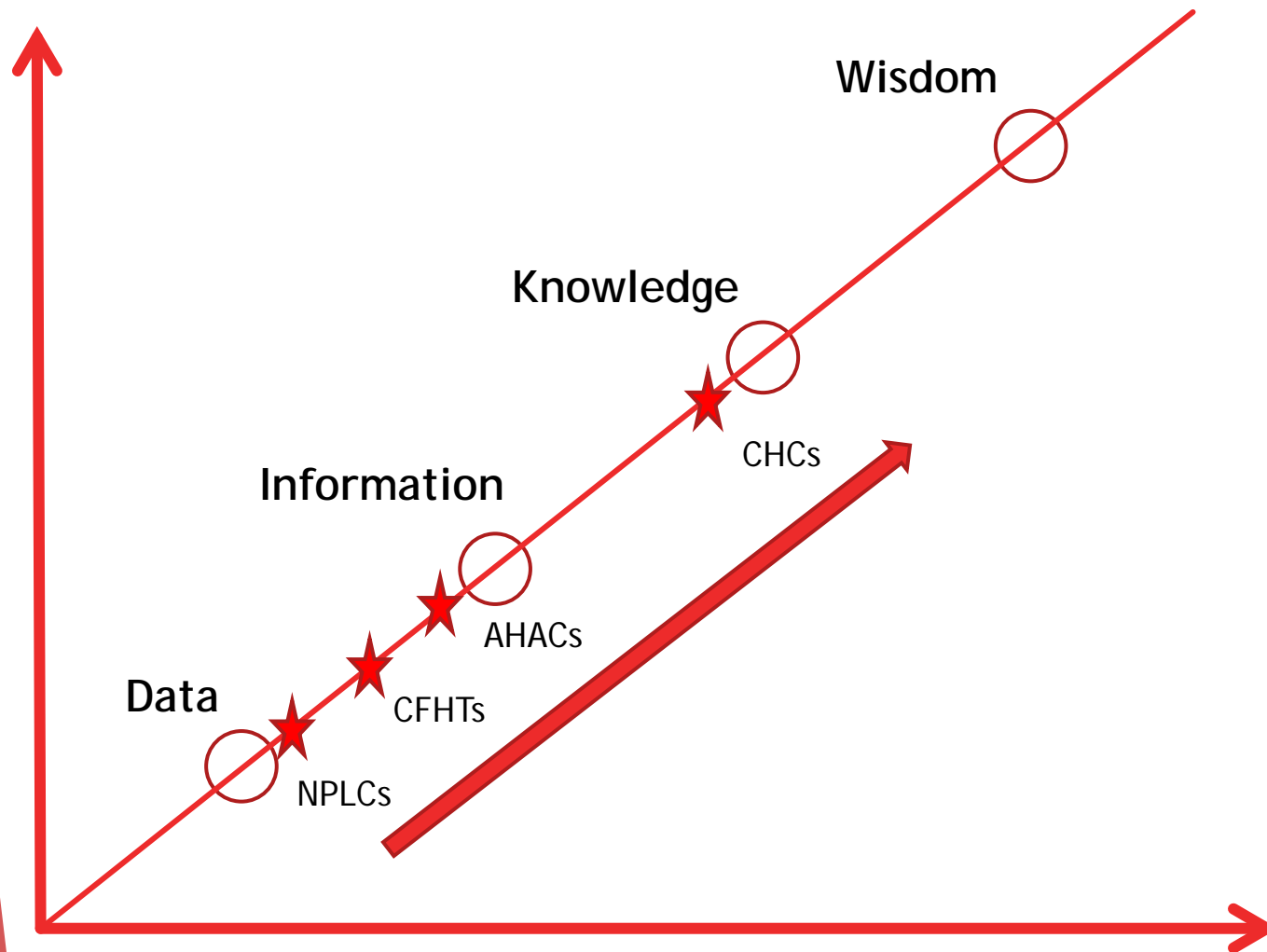
Challenges

- ▶ 5% of the population responsible for 80% of the total healthcare cost
- ▶ Engaging clients in their own health care
- ▶ “Nothing about me without me”
- ▶ Cost, benefit, impact
 - ▶ To client/family
 - ▶ To provider
 - ▶ To system

IHI Quadruple Aim



IM Maturity of AOHC members



Primary Care Dashboard - Administrative Indicators - Demo Health Centre

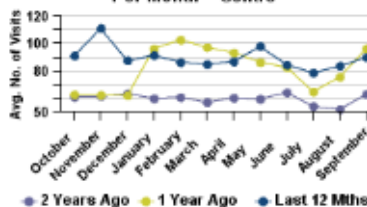
Primary Care Types are:
MD, NP, RPN, RN, and PA

Encounter Types are:
Face-to-face, Telephone,
and 3rd Party



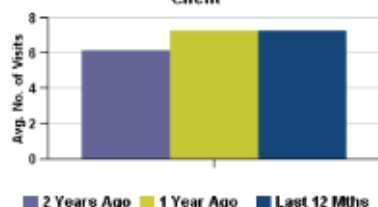
Help

Average Daily Primary Care Encounters
Per Month - Centre

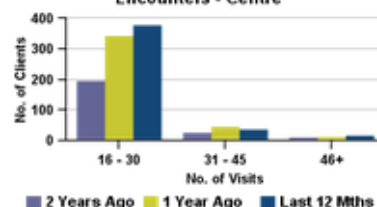


Encounter Report

Average Annual Primary Care Encounters -
Client



Clients with Frequent Primary Care
Encounters - Centre



Clients with Multiple Chronic/High Cost
(Health Link) Conditions - Centre



Time

- ☒ Last 12 Mths
☐ 1 Year Ago
☐ 2 Years Ago

Select all Deselect all

Provider Types

- ☐ RPN
☐ Physician
☐ Nurse Practitioner
☐ Other

Select all Deselect all

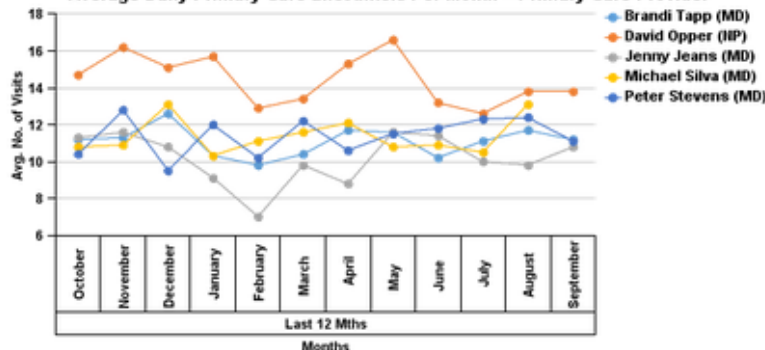
REFRESH
GRAPHS

Providers

- ☐ Aditi Mirani (NP)
☐ Ahbdul Homani (RPN)
☐ Amina Rohani (NP)
☐ Angel Hampton (NP)
☐ Barbara Bland (NP)
☐ Beth Owgwan (NP)
☒ Brandi Tapp (MD)
☐ Ceolilla Simon (NP)

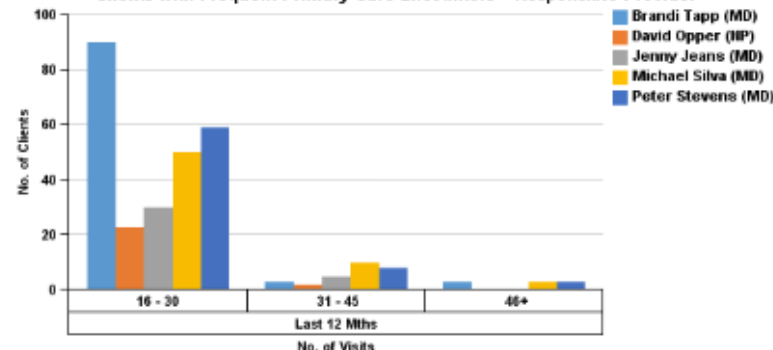
Select all Deselect all

Average Daily Primary Care Encounters Per Month - Primary Care Provider



Encounter Report

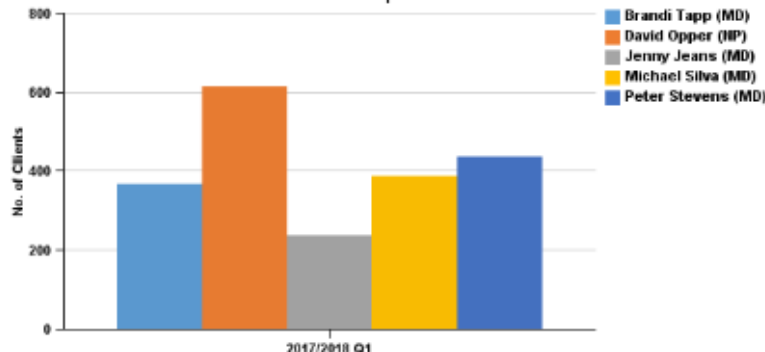
Clients with Frequent Primary Care Encounters - Responsible Provider



Select a Provider: David Oppen (NP)

Client Report

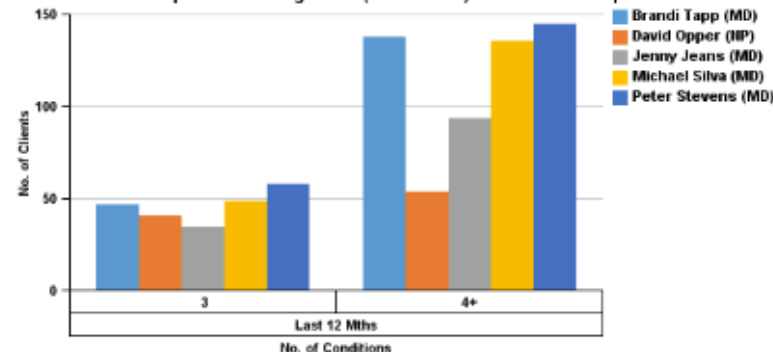
Client Total - Responsible Provider



Provider Selected David Oppen (NP)

Client Report

Clients with Multiple Chronic/High Cost (Health Link) Conditions - Responsible Provider



Provider Selected David Oppen (NP)

Client Report

CHCs SERVE THE PEOPLE MOST AT RISK FOR POOR HEALTH

NEWCOMERS

16.4% of people visiting CHCs are newcomers, compared to 4.7% in FHTs.

LOW INCOME

54.1% of people visiting CHCs are low income compared to 41% in FHTs.

COMORBIDITIES

16.6% of people visiting CHCs have greater than 10 chronic conditions compared to 7.73% in Ontario.

MENTAL HEALTH

34% to 63% is the range of caseloads of people with mental illness. Many centres prioritize supporting people with mental health issues.

SERIOUS MENTAL ILLNESS

5.9% of people visiting CHCs have a serious mental illness (schizophrenia and bipolar disorder). In the Ontario population 1.5% people have a serious mental illness.

SOCIAL ASSISTANCE

23.8% of people visiting CHCs are on social assistance compared to 8.5% in Ontario.

PREVENTING & MANAGING DISEASE



Cervical Cancer Screening rate in CHCs **vs a 65%** rate in Ontario overall.



Colorectal Cancer Screening rate in CHCs **vs a 30%** rate in Ontario overall.



of people visiting CHCs with diabetes have access to interprofessional care. Overall in Ontario only **38%** have access to this kind of care.

HEALTH PROMOTION & PREVENTION

Studies from the Élisabeth Bruyère Institute show that compared to other models, CHCs do a superior job on health promotion and illness prevention.

CHCs DO A BETTER JOB KEEPING PEOPLE OUT OF EMERGENCY DEPARTMENTS



CHCs ease pressures on hospitals by keeping people out of Emergency Departments. According to the Institute for Clinical Evaluative Sciences (ICES), when taking into account the complexity of their cases, people served by CHCs visit emergency departments **21%** less than expected.

WHAT MAKES CHCs EFFECTIVE?

- Holistic care: primary care + health promotion + community development
- Guided by a health equity charter designed to reduce health disparities and inequities
- Governed by community members
- Salaried compensation for all providers
- A network of 75 centres working together towards common goals
- Only primary care model moving towards a common EMR system
- Only primary care model accountable to the Local Health Integration Networks



INCREASING HEALTH & WELLBEING

COMMUNITY PROGRAMS such as Pathways to Education, community gardens, employment cooperatives, neighbourhood safety projects, democratic engagement and community leadership initiatives.

HEALTH PROMOTION including chronic disease self-management, smoking cessation, healthy kids and active aging supports.

INTEGRATED, COORDINATED SERVICES

Care coordination and system navigation is provided for people that need to access multiple services.

Many CHCs serve as community hubs and work closely with:

- mental health and addiction agencies
- public health units
- municipalities
- settlement organizations and schools
- social service agencies
- home and community care

SERVING MORE & MORE PEOPLE

The number of people who access **interprofessional teams** at CHCs has increased.

2010



2014



PRIMARY CARE

The number of people receiving their **primary care** at CHCs has also increased.

2010



2014



QUALITY IMPROVEMENT

- ✓ 100% of CHCs have Quality Improvement plans.
- ✓ 76% of CHCs boards have a quality committee.
- ✓ 99% of CHCs have a process for people to provide feedback on services they receive.
- ✓ 81% of CHCs have a process for providers to obtain input from the people they serve.



HEALTH LINKS

CHCs are actively involved in every Health Link province-wide.

13 of the 45 Health Links are led or co-led by CHCs.



Next Steps

- ▶ Consumer Health-'e' Strategy
 - ▶ Clinician-Client Trust paradigm
 - ▶ Data ➡ Decisions ➡ Behaviour ➡ Outcomes
 - ▶ Learning Health System - population-based 'Personalized Care'
 - ▶ Business case development
 - ▶ Workflow reengineering
 - ▶ Implementation planning

Questions



Thank you/Merci/Miigwetch

The Model of Health and Wellbeing



Model of Wholistic Health and Wellbeing

