

Symptom screening improves patient and healthcare system outcomes: implementing the evidence with e-IMPAQc

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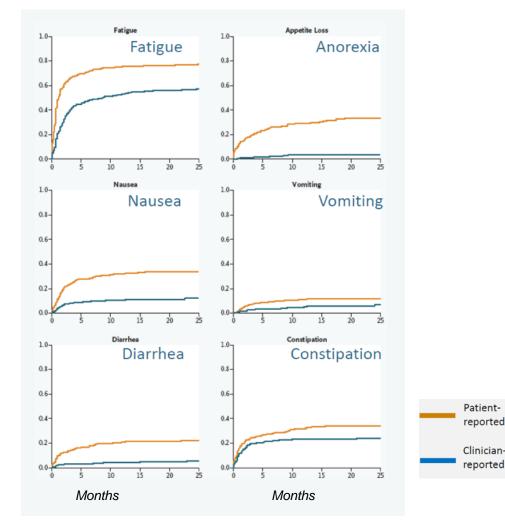
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AGENDA

- 1. Significance and evidence for symptom screening
- 2. e-IMPAQc screening program
- 3. Summary of results to date

The challenge: Patients' symptom burden underestimated in clinical practice





Underestimation of patients' subjective experiences of symptom severity might lead to preventable morbidity, which is costly to both the patient and the health care system

Basch, E. NEJM 2010; 362:865-869

The solution: We need to get the information directly from patients

- Patient-reported outcomes (PROs) data often include QOL, physical symptoms (e.g., pain, fatigue), and psychological symptoms (e.g., distress, anxiety)
- PROs are typically collected using validated questionnaires

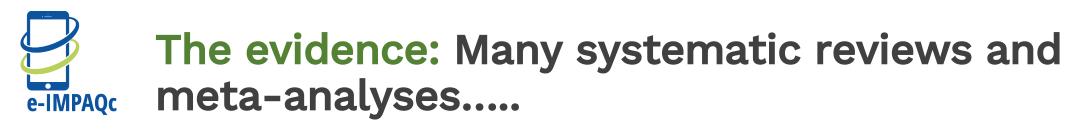
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No Pain	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Pain
No Tiredness (Tiredness = lack of e	0 nergy;	1	2	3	4	5	6	7	8	9	10	Worst Possible Tiredness
No Drowsiness (Drowsiness = feeling	0 sleep	1 v)	2	3	4	5	6	7	8	9	10	Worst Possible Drowsiness
No Nausea	0	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 Bre
No Depression (Depression = feeling	0 sad)	1	2	3	4	5	6	7	8	9	10	Worst Possible Depression
No Anxiety (Anxiety = feeling ner	0 vous)	1	2	3	4	5	6	7	8	9	10	Worst Possible Anxiety
Best Wellbeing (Wellbeing = how you	0 feel a	1 verail)	2	3	4	5	6	7	8	9	10	Worst Possible Wellbeing
No Other Problem (for	0 exam	1 iple co	2 nstipa	3 tion)	4	5	6	7	8	9	10	Worst Possible
nt's Name Time									Completed by (check one): Patient Family caregiver Health care professional caregi			



What is the evidence for the impact of PRO screening programs?



Do you remember when all we had to do was look after people?



Strong, consistent evidence	improved patient-provider communication and patient satisfaction
Moderate evidence	PRO data in clinical care generally associated with improved symptom management, including early detection and monitoring of symptoms and symptom-related actions by clinicians, and reduced symptom prevalence and severity (effect sizes variable)
Weaker evidence	impact on patient outcomes such as quality of life (effect sizes mostly small)
Minimal evidence (neglected area)	impact on health service utilisation, eg ED presentations, chemotherapy completion and survival
No integration	with EMR (in oncology); no integrated systems adopted as part of routine care in Quebec



Components of effective PRO screening programs





The use of electronic platforms

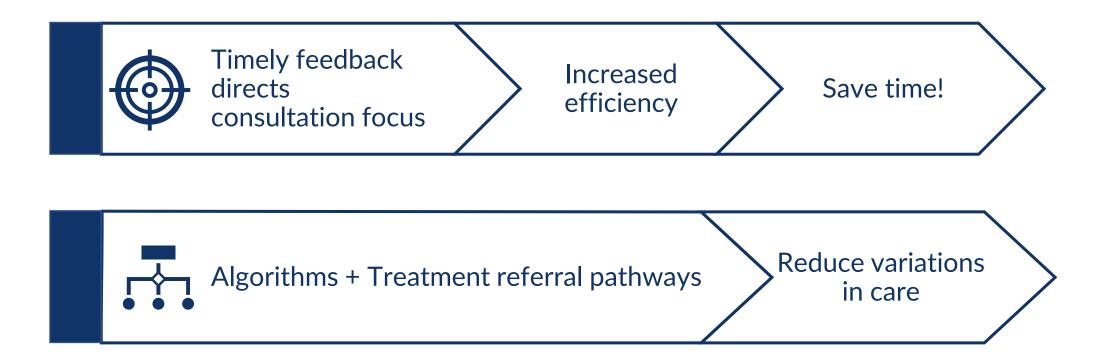
To facilitate patient screening, the use of electronic platforms is considered the preferred method because of:

- \checkmark Its general acceptance by patients
- ✓ Versatile use (clinical and non-clinical settings)
- ✓ Its efficiency in translating data into usable formats for clinicians and patients
- \checkmark Its ability to create clinical alerts
- \checkmark Its ability to integrate data into electronic records.





Use PROs to work "differently", not more





What are we doing in Quebec in oncology?

PQC released recommendations for distress screening, based on ESAS and Distress Thermometer

2011

2012-2014

Mostly pen-andpaper screening programs initiated in the Province

2015

First electronic e-PRO program (iPEHOC, leadership in ON)





2017

CPAC funding launched: Improving Quality of Life and Palliative End-of-Life Care through Comprehensive Application of PROs

2018 e-IMPAQc launched





Objective of e-IMPAQc

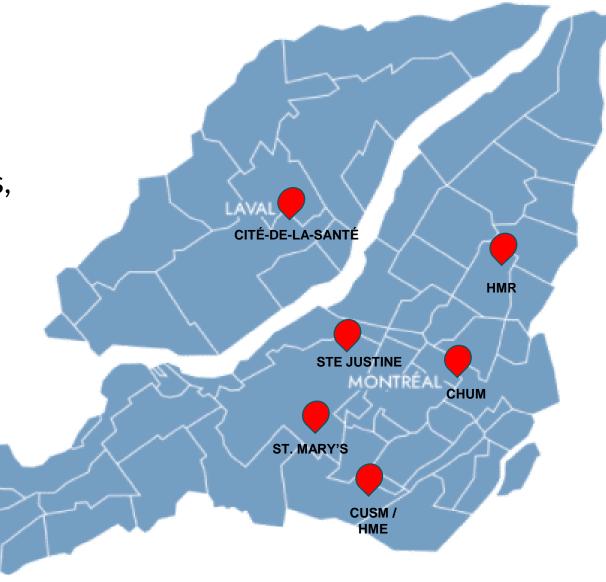
Large-scale deployment of a symptom screening and management program for cancer patients and their caregivers using electronic platforms





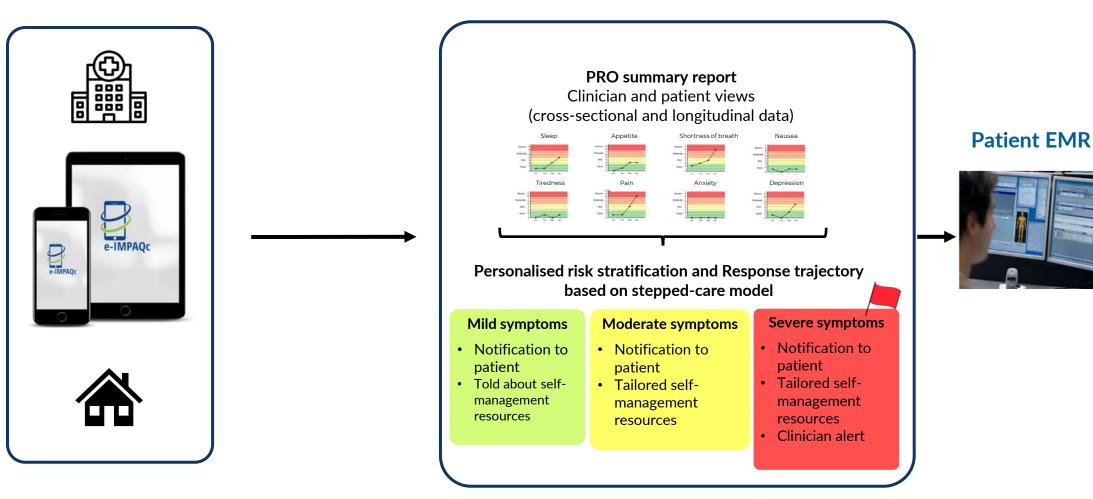
Co-development of e-IMPAQc

49 clinicians, managers, researchers, patients, and caregivers across 7 centres





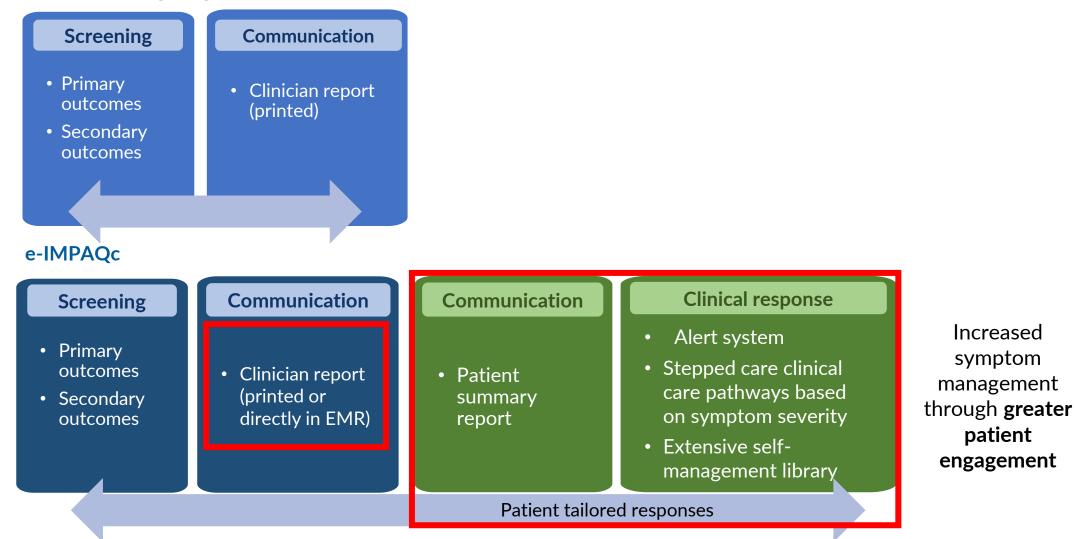
Overview of the components of e-IMPAQc





Added value of e-IMPAQc

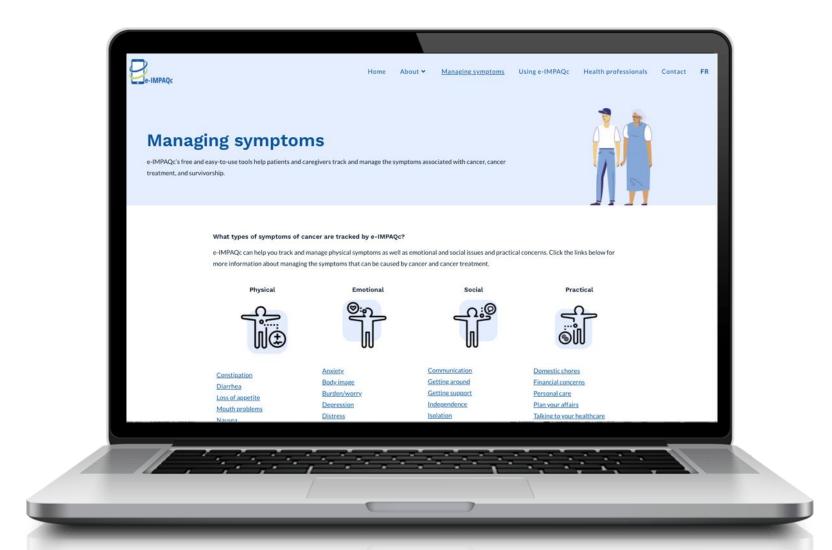
Many screening programs





Our resources are available!

Visit e-impaqc.com/managing-symptoms





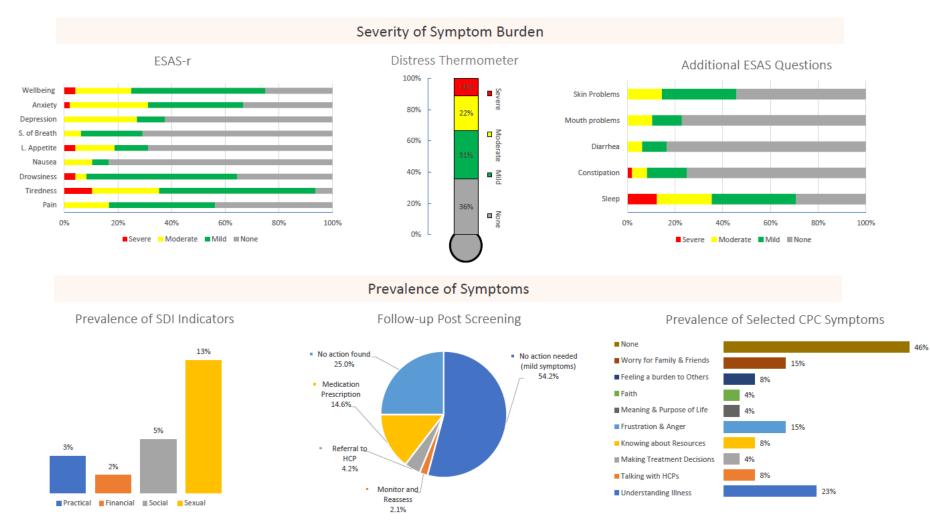
e-IMPAQc MUHC Screening Dashboard

November 2020 – July 2021

21 unique patients screened
6

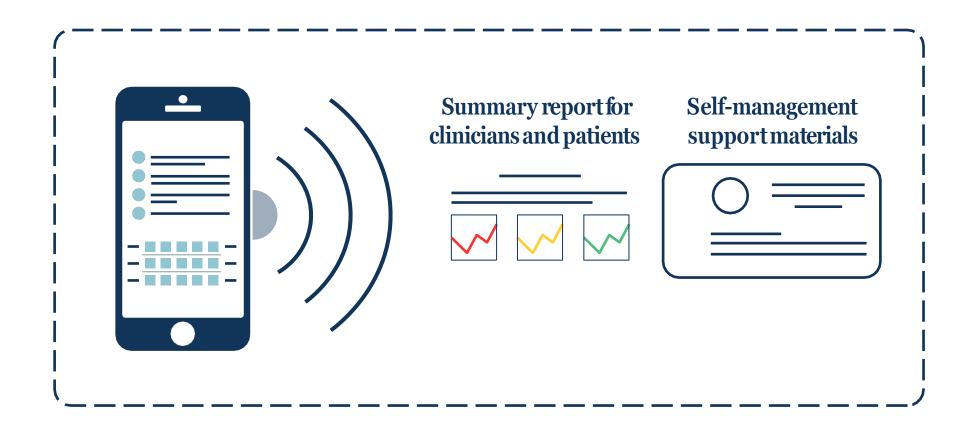
6 new patients screened since last period

48 total screenings





Digital platform selected by participating hospitals



e-IMPAQc Pilot Patient Feedback

Patients reported having had an easier time navigating their cancer care through **symptom tracking and educational materials.**

e-IMPAQc supports a more transparent and smoother treatment delivery.

e-IMPAQc Pilot Patient Feedback

Benefits to patients



"[e-IMPAQc] is so much less stressful. Like I have everything 'in the palm of my hand"

"I think it was magnificent that I had this. I wouldn't be able to go without it"

e-IMPAQc Pilot Patient Feedback

Self-management Materials



"It gave me a possibility of what to do, like an action plan"

"It was just more like a reassurance that I was OK, you know, that it was normal" e-IMPAQc Pilot Patient Feedback Healthcare Professional use of patient screening results

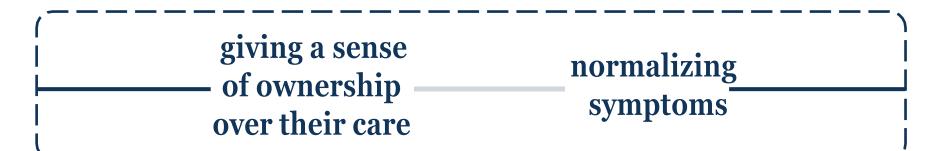
facilitating _____ optimizing _____ appointment _____ time

"[the doctor] was fully versed on what I had reported in the questionnaire and I thought wow, this works really well"

"And [he] explained why, it said that there was a concern with one of the answers to my questions, which I thought you know how great that is."

e-IMPAQc Pilot Patient Feedback

Patient Summary Reports



"Summary reports helped me to know what is normal, which is abnormal"

"I liked seeing the visual, I liked having it in my hand... I didn't have to beg for paperwork or my history or anything"

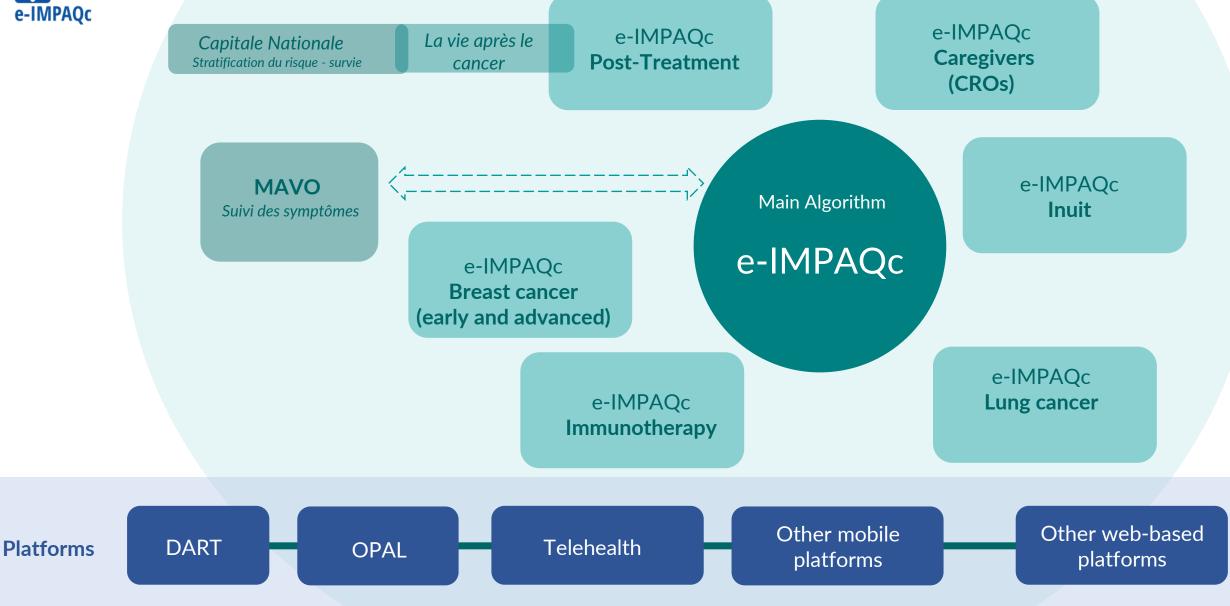
e-IMPAQc Pilot Patient Feedback

Suggested improvements were made by patients to:

- simplify the process of registration
- additional resources that could be included in the materials offered
- app features that would improve the functionality of the application.



e-IMPAQc algorithms and collaborations





Relevance & future outlook

Systematic collection of PROs places patient-centered care at the forefront of cancer care

The fluctuation of symptoms across the trajectory of care can be more easily identified with PROs

PRO screening reports potentially improve co-ordination of care

The use of PROs in cancer care can not only **improve symptom severity** and the process of care but also treatment adherence and health-related outcomes such as **quality of life**



CONTACT

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Symptom tracking & management to improve cancer care

e-IMPAQc helps patients and caregivers at cancer centres across Quebec track and manage their physical and emotional symptoms and practical challenges and communicate these to their healthcare team using mobile technology.

