#### **CONTENT OF THE TOOLKIT**

# Patient-reported outcome and experience measures

#### LIST OF DOCUMENTS

- PROMs, PREMs or not ?
- PROMs and PREMs : Why are they a key to improving health care and services ?
- Possible barriers to the integration of PROMs and PREMs and ways for clinicians to overcome them
- Documentation and sample resources
- Recommendations

Still abstract ?

See more exemples in our popularization capsules !



**To cite this document :** Poitras M-E, T Vaillancourt V, Beaupré P, Emond M-J, Perron M-E, Fournier A (2023). Toolkit : *Patient-reported outcome and experience measures.* Content produced for the SSA Quebec Unit.







RESEARCH CHAIR ON OPTIMAL PROFESSIONAL PRACTICES IN PRIMARY CARE



# PROMs, PREMs or not?

Although most professional or patient organizations claim to incorporate the concept of Patient-Reported Outcome Measures (**PROMs**) or Patient-Reported Experience Measures (**PREMs**), how the information is collected is not necessarily adequate.<sup>1,2</sup> To be compliant, PROMs and PREMs must be measured using scientifically validated tools and must be completed by patients.<sup>3</sup> Let's see together the definition of PROMs and PREMs and what characterizes them.

#### Definitions

#### What is a PROM?

PROMs are the health outcomes perceived by patients without the interpretation of a health care professional. These outcomes reflect their view of the disease and treatments.<sup>4,5</sup>

#### What is a PREM?

PREMs are measures of perceived care experience reported by patients, providing a more comprehensive view of the quality of care.<sup>6</sup>

#### PROMs/PREMs are<sup>1,4-8</sup>:

- Patient's perception of their health status or health services received
- Issued from validated questionnaires constructed using a rigorous method in collaboration with patients.
- Issued from questionnaires completed by patients
- Quantitative and have an accessible literacy level
- Applicable to different populations

#### PROMs/PREMs are not<sup>1,4-8</sup> :

- X Issued from "in-house" questionnaire not validated
- Issued from a conversation with a patient
- Based on questionnaires completed by professional staff rather than by a patient
- X Qualitative

References : 1. Wong, Johnston et al. 2019; 2. Berta, Barnsley et al. 2008; 3. Veillard, Dhalla et al. 2015; 4. Minvielle, Fourcade et al. 2019; 5. FDA, 2006; 6. OECD, 2017; 7. Boyce, Browne et al. 2014; 8. Dawson, Doll et al. 2010.









# PROMs and PREMs : Why are they a key to improving health care and services ?



Patients' perspective of their health situation or how they evaluate their health status.<sup>1,2</sup>

# What is a PREM ?

Patients' perspectives on their care experience, how they care, or how they evaluate the health care they receive.<sup>3</sup>

#### A powerful

#### measure

The perspective of patients is often absent from the redesign of primary care policies and services<sup>5</sup> even though it has the potential to guide them so that they better meet their needs<sup>6</sup> for the implementation of:

- Intervention plans focused on the real needs of patients<sup>7</sup>
- Support for healthcare professionals to integrate the patient perspective into their professional practicel<sup>8,9</sup>
- Healt policies that better meet the needs of people with common characteristics<sup>9,10</sup>

#### **PROMs and PREMs allow :**

- A better understanding by the professional staff of the symptoms experienced by patients<sup>7,11</sup>
- Improved interprofessional communication and the one with patients<sup>7,8</sup>
- A person-centred follow-up<sup>7,8</sup>
- A reduction in the presence and intensity of encounters<sup>7</sup>
- Improved emotional and psychological quality of life and shared decision-making<sup>7</sup>
- A more coherent and efficient care offer<sup>9,11,12</sup>

Although answering questions about the PROMs et PREMs measurement tools may require the help of another person, these must be completed by the patients.

Thus, they DO NOT INCREASE THE WORKLOAD OF CLINICIANS. These tools can be completed before or after an appointment by the person or with the help of the administrative staff or a caregiver.



References : 1. Minvielle, Fourcade et al. 2019; 2. FDA, 2006; 3. OECD, 2017; 4. Boyce, Browne et al. 2014; 5. Berta, Barnsley et al. 2008; 6. Wong, Johnston et al. 2019; 7. Rotenstein, Huckman et al. 2017; 8. Dawson, Doll et al. 2010; 9. Øvretveit, Zubkoff et al. 2017; 10. Snyder and Brundage 2010; 11. Atkinson, Ryan et al. 2016; 12. Santana and Feeny 2014.







RESEARCH CHAIR ON OPTIMAL PROFESSIONAL PRACTICES IN PRIMARY CARE



#### Possible barriers to the integration of PROMs and PREMs and the means to put in place to overcome them

BARRIERS	ENABLERS			
	Patient			
Lack of motivation to complete the questionnaire	<ul> <li>Provide patients with sufficient information to ensure the objective is well understood.<sup>1,2</sup></li> <li>Discuss the results with patients to maintain long-term commitment.<sup>2,3</sup></li> <li>Use a video or flyer to explain what the questionnaire is for and how to complete it. You may want to enlist a patient partner to complete this task.<sup>4</sup></li> <li>Suggest several methods for administering the questionnaire and consider enlisting the help of a family member, loved one or professional if needed.<sup>3</sup></li> </ul>			
Lack of time for fill the questionnaire	<ul> <li>Professional staff should select an appropriate questionnaire that collects only data relevant to patients in the practice setting being assessed.<sup>5</sup></li> <li>Professional staff should favour a simple and short questionnaire.<sup>5</sup> However, it must remain clinically relevant. Otherwise, it must be replaced by a more exhaustive questionnaire that meets the needs of the assessment.<sup>4</sup></li> </ul>			
Insufficient computer skills	<ul> <li>Have a user-friendly and easily accessible collection system for PROMs and PREMs.<sup>1-3</sup></li> <li>Provide patients with adequate technological support (training, information brochure, tutorials, availability of professional staff, etc.).<sup>1,3,6</sup></li> </ul>			
	Professional Staff			
	<ul> <li>Provide sufficient information to professional staff to demonstrate that PROMs help in clinical practice and PREMs in improving care organization.<sup>7,8</sup></li> <li>Sensitize professional staff to use the questionnaires in daily practice and encourage them to discuss the</li> </ul>			
Lack of motivation to integrate the questionnaires into routine practice	<ul> <li>Beristize professional start to use the questionnales in daily practice and encourage them to discuss the results with patients<sup>3,7</sup></li> <li>Having a straightforward and user-friendly interface for collecting and displaying data can help engage professional staff and help them better use and interpret data (e.g. dashboard, threshold line, graphs, colour coding, etc.).<sup>4,7</sup></li> </ul>			
Lack of knowledge on how to interpret and integrate PROMs and PREMs into clinical practice / perceived uselessness	<ul> <li>Adequately train professional staff on using and interpreting measurement tools from the first stages of implementation in clinical settings.<sup>7,10,11</sup></li> <li>Provide professional staff with a clear objective for data use.<sup>7,10</sup></li> <li>Determine threshold values for PROMs results to target actionable triggers.<sup>7</sup></li> <li>Select PROMs and PREMs relevant to patients.<sup>7</sup></li> </ul>			
Fear of adding administrative burden and reducing time for clinical activities	<ul> <li>Evaluate the actual time required to complete the questionnaires. PROMs and PREMs are complementary tools to the practice and should not be seen as an add-on. In the medium to long term, there are even a time savings to using them.<sup>24,7</sup></li> <li>Send measurement questionnaires to patients by email before the consultation. A paper or tablet version may also be available to patients in the clinic.<sup>12</sup></li> <li>Integrate PROMs and PREMs directly into the electronic medical record to avoid duplicating the information to be collected.<sup>2,9,12</sup></li> </ul>			
Lack of knowledge of the tools available (English, French, free access)	Train professional staff to search for and identify tools in measuring tool directories. <sup>11</sup>			
Lack of human resources	<ul> <li>The use of PROMs and PREMs does not require additional staff.<sup>4</sup></li> <li>Patients must complete the questionnaire alone or with the help of a family member or loved one. Administrative staff can also support them if needed.<sup>6</sup></li> </ul>			
	Organizational			
Organizational decisions limiting the implementation	<ul> <li>Monitor scientific publications demonstrating the relevance of integrating PROMs and PREMs into care settings. The management committees are regularly mobilized to implement innovations in good health practices<sup>3,4,13</sup></li> </ul>			
Lack of financial resources	<ul> <li>Considering the integration of PROMS and PREMs within the framework of scientific projects can allow the institution to reduce the financial contribution (e.g., doctoral work) if the project is funded via a research grant.<sup>3,13</sup></li> </ul>			
Lack of uniformity in the computer tools used by professional staff (CISSS and CIUSSS, out of network, private, etc.)	<ul> <li>Have an adequate information technology infrastructure by granting the professional, financial and administrative resources for the development of such a system.<sup>7,13</sup></li> </ul>			

References : 1. Wang, Samuel et al. 2018; 2. Girgis, Durcinoska et al. 2017; 3. Baeksted, Pappot et al. 2017; 4. Poitras, Haggerty et al. 2022; 5. Dawson, Doll, Fitzpatrick, Jenkinson, & Carr, 2010; 6. Howell, Molloy et al. 2015; 7. Kanatas, Mehanna et al. 2009; 8. Santana, Haverman et al. 2015; 9. Baeksted, Pappot et al. 2017; 10. Gerhardt, Mara et al. 2018; 11. LeBlanc & Abernethy, 2017; 12. Rotenstein, Huckman, & Wagle, 2017; 13. Schepers, Haverman et al. 2016.







RESEARCH CHAIR ON OPTIMAL PROFESSIONAL PRACTICES IN PRIMARY CARE



# **PROMs and PREMs**

## Relevant general documentation

#### WEBSITES\*

- Agency for Healthcare Research and Quality :
   <u>https://www.ahrq.gov/cahps/surveys-guidance/index.html</u>
- Code Technology : <u>codetechnology.com/resource-center/?ref=side\_nav</u>
- **Government of United Kingdom :** gov.uk/guidance/patient-reported-outcomes-and-experiences-study
- HealthMeasures : https://www.healthmeasures.net/index.php
- International Consortium for Health Outcomes Measurement : <u>ichom.org/</u>
- Canadian Institute for Health Information :
   <u>https://www.cihi.ca/en/patient-reported-outcome-measures-proms</u>
- National Health Service Digital : digital.nhs.uk/data-and-information/data-tools-and-services/data-services/patientreported-outcome-measures-proms
- National Institutes of Health : <u>commonfund.nih.gov/promis/websites</u>
- Organisation for Economic Co-operation and Development : <u>https://www.oecd.org/health/paris/</u>
- Patient Reported Outcomes Measurement Information System Canada : <u>mcgill.ca/can-pro-network/promis-canada</u>
- Remecare :
   <u>remecare.eu/blog/everything-you-need-to-know-about-proms-and-prems</u>
- SKEZI : <u>https://skezi.eu/donnees-recueillies</u>

#### DOCUMENTS\*

- ICIS-Information Document on PROMs
- <u>KCE-Use of patient-reported outcome and experience measures in patient care and policy</u>
- Measures of rheumatoid arthritis disease activity
- <u>National and cross-national surveys of patient experiences</u>
- OECD-Patients-reported indicators for assessing health system performance
- User's Guide to Implementing Patient-Reported Outcomes Assessment in Clinical Practice

\*Non-exhaustive lists









### **EXAMPLES OF RESOURCES**

#### **PROMs**

# Exemples of generic tools for measuring PROMs

Measured Concept	Tool Name	C	Domain(s)	Nb Items	References
Mental wellbeing	WHO Well- being Index (WHO-5)	Mood Relaxation Energy Daily life Sleep		5	Lara-Cabrera et al. (2022) [1] https://www.psykiatri- regionh.dk/who- 5/Documents/WHO5_French. pdf
		Physical Health	<ul> <li>Functioning</li> <li>Pain (intensity)</li> <li>Pain (interference)</li> <li>Fatigue</li> <li>Sleep</li> </ul>		Bevans et al. (2014) [2] https://orthotoolkit.com/pro mis-10/
Overall health status	PROMIS Global Health (PROMIS-10)	Mental Health	<ul> <li>Depression</li> <li>Anxiety</li> <li>Anger</li> <li>Cognitive function</li> <li>Alcohol</li> <li>Psychosocial disorders</li> <li>Self-efficacy</li> <li>Smoking</li> </ul>	10	
		Social Health	<ul> <li>Social functioning</li> <li>Satisfaction</li> <li>Social support</li> <li>Social isolation</li> <li>Support</li> </ul>		
	36 item Short-form	Physical Health	<ul> <li>Functioning</li> <li>Physical role</li> <li>Pain</li> <li>General health</li> </ul>		Ware (2000) [3] https://www.rand.org/health
Survey	Survey (SF-36)	Mental Health	<ul><li>Vitality</li><li>Functioning</li><li>Emotional role</li><li>Mental health</li></ul>	36	<u>-care/surveys tools/mos/36-</u> item-short-form/survey- instrument.html
of life	12 item Short Health form Survey	Physical Health	<ul> <li>Functioning</li> <li>Physical role</li> <li>Pain</li> <li>General health</li> </ul>	12	Ware et al. (1996) [4] https://www.qualitymetric.c om/health-surveys/the-sf- 12v2-pro-health-survey/
		Mental Health	<ul> <li>Vitality</li> <li>Functioning</li> <li>Emotional role</li> <li>Mental health</li> </ul>	12	







HESEARCH CHAIR ON OPTIMAL PROFESSIONAL PRACTICES IN PRIMARY CARE



6

### **EXAMPLES OF RESOURCES**

#### **PROMs**

# Examples of generic tools for measuring PROMs

Measured Concept	Tool Name	Domain(s)	Nb Items	References
Health- related quality of life	EuroQoL (EQ-5D-5L)	<ul> <li>Mobility</li> <li>Self-care</li> <li>Activities of Daily Living</li> <li>Pain/Comfort</li> <li>Anxiety/Depression</li> </ul>	5	Feng et al. (2021) [5] https://euroqol.org/eq-5d- instruments/sample-demo/
	AQoL-8D	<ul> <li>Autonomy</li> <li>Happiness</li> <li>Mental health</li> <li>Adaptation</li> <li>Relationships</li> <li>Self-esteem</li> <li>Pain</li> <li>Sense</li> </ul>	35	Hoi yau Chan et al. (2022) [6] http://www.aqol.com.au/docum ents/AQoL-8D/AQoL- 8D simplified Data Collection v 12.pdf
	Health Utilities Index (HUI3)	<ul> <li>Vision</li> <li>Hearing</li> <li>Language</li> <li>Mobility</li> <li>Dexterity</li> <li>Emotion</li> <li>Cognition</li> </ul>	8	Horsman et al. (2003) [7] http://www.healthutilities.com/
	15 Dimension (15D)	<ul> <li>Mobility</li> <li>Usual activities</li> <li>Vision</li> <li>Cognition</li> <li>Hearing</li> <li>Discomfort</li> <li>Breathing</li> <li>Symptoms</li> <li>Sleep</li> <li>Depression</li> <li>Eating</li> <li>Language</li> <li>Vitality</li> <li>Elimination</li> <li>Sexuality</li> </ul>	15	Sintonen (2001) [8] http://www.15d- instrument.net/site/assets/files/ 1002/15d_english.pdf









#### **EXAMPLES OF RESOURCES**

#### **PROMs**

# Examples of specific tools for measuring PROMs

Measured Concept	Nom de l'outil	Domain(s)	Nb items	Références
Diabetes				
Impact of diabetes on daily social and emotional functioning	Diabetes Health Profile (DHP-18)	<ul> <li>Psychological distress</li> <li>Barriers to activities</li> <li>Uninhibited eating</li> </ul>	18	Tan et al. (2016) [9] https://innovation.ox.ac.uk/w D- content/uploads/2014/09/DH P-18_English_UK_SAMPLE- 2019.pdf
Pain				
Acceptance of pain	Chronic Pain Acceptance Questionnaire (CPAQ-8)	<ul> <li>Participation in activities</li> <li>Willingness to fight pain</li> </ul>	8	Rovner et al. (2014) [10] https://www.researchgate.ne t/publication/330181601 Chr onic Pain Acceptance Questi onnaire 8 CPAQ-8
Attitude towards pain	Pain Catastrophizing Scale (PCS)	<ul><li> Rumination</li><li> Impotence</li><li> Amplification</li></ul>	13	Sullivan et al. (1995) [11] https://www.oregon.gov/oha /HPA/dsi- pmc/PainCareToolbox/Pain%2 OCatastrophizing%20Scale.pdf
Pain severity and functional impact	Brief Pain Inventory – Short Form (BPI-SF)	<ul><li>Pain (intensity)</li><li>Pain (interference)</li></ul>	9	Andres et al. (2015) [12] http://www.npcrc.org/files/n ews/briefpain_short.pdf







HESEARCH CHAIR ON OPTIMAL PROFESSIONAL PRACTICES IN PRIMARY CARE



8

## **EXAMPLES OF RESOURCES**

#### **PROMs**

# Examples of specific tools for measuring PROMs

Measured Concept	Tool Name	Domain(s)	Nb Items	References
Orthopedics				
Amplitude of movement of the knee	Copenhagen Knee ROM Scale	<ul><li>Flexion</li><li>Extension</li></ul>	2	Mørup-Petersen et al. (2018) [13] https://www.procordo.com/d ocs/copenhagen_rom/Copenh agen%20Knee%20ROM%20Sc ale%20(English).pdf
Knee injury and treatment results	Knee Injury and Osteoarthritis Outcome Score (KOOS)	<ul> <li>Symptoms</li> <li>Pain</li> <li>Rigidity</li> <li>Function (daily)</li> <li>Function (sports)</li> <li>Quality of life</li> </ul>	42	Roos et al. (1998) [14] Free Online KOOS Score Calculator - OrthoToolKit
Respiratory Problems				
Quality of life of people living with asthma	Asthma Quality of Life Questionnaire (AQLQ)	<ul> <li>Symptoms</li> <li>Physical Limitations</li> <li>Emotional functioning</li> <li>Environmental exposure</li> </ul>	32	Aburuz et al. (2007) [15] http://www.goltech.co.uk/agl g.html
Neurological disorder				
Quality of life of people living with Alzheimer's	Dementia Quality of Life Instrument (DEMQOL)	<ul> <li>Health and well-being</li> <li>Cognitive Functioning</li> <li>Daily activities</li> <li>Social relationships</li> <li>Self-image</li> </ul>	29	Hendriks et al. (2017) [16] https://www.bsms.ac.uk/_pdf /cds/demgol- guestionnaire.pdf









#### EXAMPLES OF RESOURCES PREMs

# Examples of generic tools for measuring PREMs

Measured Concept	Tool Name	Domains)	Nb Items	References
Experience of care	Consumer Quality Index In patient Hospital Care Questionnaire (CQ-Index)	<ul> <li>Admission</li> <li>Communication(s)</li> <li>Involvement</li> <li>Explanation of treatment</li> <li>Pain management</li> <li>Safety</li> <li>Return home</li> </ul>	50	Smirnova et al. (2017) [17] https://www.infinitcare.com/ en/cq- index/#:~:text=The%20Consu mer%20Quality%20Index%20 (CQ,the%20care%20they%20 have%20received.
	Canadian Patient Experiences Suervey – Inpatient Care (CPES-IC)	<ul> <li>Admission</li> <li>Communication(s)</li> <li>Decision-making involvement</li> <li>Respect for preferences</li> <li>Coordination of care</li> <li>Hospital discharge</li> <li>Overall experience</li> </ul>	49	Hadibhai et al. (2018) [18] https://www.cihi.ca/sites/def ault/files/document/patient expsurvey inpatient en.pdf
	HowRwe	<ul> <li>Compassion</li> <li>Communication</li> <li>Accessibility</li> <li>Organization</li> </ul>	4	Benson et al. (2014) [19] https://r- outcomes.com/patient/patie nt-experience/
Experience in communicati ng with hospital staff	Health Care Communication Questionnaire (HCCQ)	<ul> <li>Problem solving</li> <li>Respect</li> <li>Lack of hostility</li> <li>Non-verbal</li> </ul>	13	Gremigni et al. (2008) [20] https://www.researchgate.ne t/publication/264195085_HC CQ-English









## **EXAMPLES OF RESOURCES**

#### **PREMs**

#### Examples of generic tools for measuring PREMs

Measured Concept	Tool Name	Domain(s)	Nb Items	References
Ambulatory care experience	Consumer Assessment of Healthcare Providers and Systems – Clinician and Group Survey (CG-CAHPS)	<ul> <li>Access to care</li> <li>Communication with the doctor</li> <li>Courteous and helpful staff</li> <li>Physician's assessment</li> <li>Physician's recommendation</li> </ul>	28	Dyer et al. (2012) [21] https://www.ahrq.gov/sites/de fault/files/wysiwyg/cahps/surv eys-guidance/cg/adult-english- cg-3-1-2351a.pdf
Care safety experience	Patient Reported Experiences and Outcomes of Safety in Primary Care (PREOS-PC)	<ul> <li>Measures implemented</li> <li>Experience</li> <li>Harms</li> <li>General perception</li> </ul>	58	Ricci-Cabello et al. (2016) [22] https://innovation.ox.ac.uk/wp content/uploads/2018/07/PRE OS-PC-27-item-version- SAMPLE.pdf
Experience of healthcare accessibility	GP Patient Survey (GPPS)	<ul> <li>Health Center</li> <li>Call results</li> <li>Consulting a physician</li> <li>Waiting Time</li> <li>Physician Preference</li> <li>Hours of operation</li> <li>Consultation(s)</li> <li>Care Planning</li> <li>Overall satisfaction</li> </ul>	51	Campbell et al. (2009) [23] https://moderngov.southwark. gov.uk/documents/s43536/GP %20Patient%20Survey%20ques tionnaire%20example.pdf









11

#### **EXAMPLES OF RESOURCES**

#### **PREMs**

#### Examples of specific tools for measuring PREMs

Measured Concept	Tool Name	Domain(s)	Nb Items	References
Patient engagement				
Patient engagement experience	Patient Participation Questionnaire	<ul> <li>Participation</li> <li>Information</li> <li>Communication</li> <li>Relation with the staff</li> </ul>	18	Berg et al. (2020) [24] https://www.semanticscholar .org/paper/Questionnaire- measuring-patient- participation-in-Berg- F%C3%A6rch/544bba1320c41 83dd3b4d37e29ab93a40f53d 156/figure/0
Care coordination				
Experience coordinating patient-centred care	Person-Centred Coordinated Care Experience Questionnaire (P3CEQ)	<ul> <li>Information and communication process</li> <li>Care planning</li> <li>Transitions</li> <li>Objectives and results</li> <li>Decision making</li> </ul>	10	Lioyd et al. (2019) [25] https://www.p3c.org/resourc es
Shared decision making	ng			
Experience using shared decision	CollaboRATE	<ul> <li>Explanation</li> <li>Solicitation of preferences</li> <li>Integration of preferences</li> </ul>	3	Ubbink et al. (2022) [26] http://www.glynelwyn.com/upl oads/2/4/0/4/24040341/collab orate_for%C2%A0patients_v6.p df
making	SDM-Q-9	<ul> <li>Recognization that a decision must be made</li> <li>Preference(s)</li> <li>Options</li> <li>Advantages/disadvantages</li> <li>Explanations</li> <li>Discussion of options</li> <li>Collaborative choice</li> <li>Common agreement</li> </ul>	9	Kriston et al. (2010) [27] http://www.patient-als- partner.de/media/sdm-q- 9 french_version.pdf
UNITÉ DE SOUTIEN SSALQUÉBEC Conductor und a lagrant UDS Université de Sherbrooke Sherbrooke IN PRIMARY CARE IN CONTRAL DE CONTRAL				

### **EXAMPLES OF RESOURCES**

**PREMs** 

# Examples of specific tools for measuring PREMs

Measured Concept	Tool Name	Domain(s)	Nb Items	References
Mental Heakth				
Experiences of perceived treatment outcome, quality of interaction with clinician, and information provided	Psychiatric Out-Patient Experiences Questionnaire (POPEQ)	<ul> <li>Perceived outcome of treatment</li> <li>Quality of the interaction with the clinician</li> <li>Quality of information provision</li> </ul>	11	Olsen et al. (2010) [28] https://bmchealthservres.bio medcentral.com/articles/10.1 186/1472-6963-10-282#Sec10 [Dans la section matériel supplémentaire]
Oncology Care				
Oncology care experience	CAHPS Cancer Care Survey	<ul> <li>Timely Care</li> <li>Supporting self- management</li> <li>Availability</li> <li>Communication</li> <li>Coordination of care</li> <li>Courteous staff.</li> </ul>	56	Evensen et al. (2019) [29] https://www.ahrq.gov/cahps/s urveys- guidance/cancer/index.html
Primary Care				
Primary care experience	Primary Care Patient Experience Survey	<ul> <li>Communications</li> <li>Accessibility</li> <li>Care team</li> <li>Treatment plan and priorities of care</li> <li>Mobility</li> <li>Self-care</li> <li>Daily activities</li> <li>Pain/Discomfort</li> <li>Anxiety/Depression</li> <li>Overall satisfaction</li> </ul>	53	Health Quality Council of Alberta [30] https://hqca.ca/wp- content/uploads/2019/03/ DrSample-Physician- Report-Final-JB.pdf
Experience providing patient- centered care	Patient-Centred Primary Care Measure (PCPCM)	<ul> <li>Accessibility</li> <li>Advocacy</li> <li>Community</li> <li>Context</li> <li>Continuity</li> <li>Coordination</li> <li>Family Context</li> <li>Goal Oriented Care</li> <li>Health Promotion</li> <li>Integration and relationships</li> <li>Comprehensive Care</li> </ul>	11	Tse et al. (2021) [31] https://static1.squarespac e.com/static/5d7ff8184cf0 e01e4566cb02/t/608ab28 59602525676ee51e2/1619 702406481/PCPCM- +French2021.pdf









#### List of references

- Lara-Cabrera, M. L., Betancort, M., Muñoz-Rubilar, A., Rodríguez-Novo, N., Bjerkeset, O., Cuevas, C. D. L., Gray, R., & Udod, S. (2022). Psychometric properties of the who-5 well-being index among nurses during the covid-19 pandemic: a cross-sectional study in three countries. International Journal of Environmental Research and Public Health, 19(16). https://doi.org/10.3390/ijerph191610106
- Bevans, M., Ross, A., & Cella, D. (2014). Patient-Reported Outcomes Measurement Information System (PROMIS): efficient, standardized tools to measure selfreported health and quality of life. Nursing outlook, 62(5), 339-345.
- 3. Ware Jr, J. E. (2000). SF-36 health survey update. Spine, 25(24), 3130-3139.
- 4. Ware Jr, J. E., Kosinski, M., & Keller, S. D. (1996). A 12-Item Short-Form Health Survey: construction of scales and preliminary tests of reliability and validity. Medical care, 220-233.
- 5. Feng, Y. S., Kohlmann, T., Janssen, M. F., & Buchholz, I. (2021). Psychometric properties of the EQ-5D-5L: a systematic review of the literature. Quality of life research : an international journal of quality of life aspects of treatment, care and rehabilitation, 30(3), 647–673. <u>https://doi.org/10.1007/s11136-020-02688-y</u>
- Hoi Yau Chan, Ben F. M. Wijnen, Mickaël Hiligsmann, Filip Smit, Loes A. M. Leenen, Marian H. J. M. Majoie & Silvia M. A. A. Evers (2022) Assessment of Quality of Life 8-Dimension (AQoL-8D): translation, validation, and application in two Dutch trials in patients with epilepsy and schizophrenia, Expert Review of Pharmacoeconomics & Outcomes Research, 22:5, 795-803
- Horsman, J., Furlong, W., Feeny, D., & Torrance, G. (2003). The Health Utilities Index (HUI<sup>®</sup>): concepts, measurement properties and applications. Health and Quality of Life Outcomes, 1(1), 1-13.
- 8. Sintonen, H. (2001). The 15D instrument of health-related quality of life: properties and applications. Annals of medicine, 33(5), 328-336.
- Tan, M. L., Khoo, E. Y., Griva, K., Lee, Y. S., Amir, M., Zuniga, Y. L., Lee, J., Tai, E. S., & Wee, H. L. (2016). Diabetes Health Profile-18 is Reliable, Valid and Sensitive in Singapore. Annals of the Academy of Medicine, Singapore, 45(9), 383–393.
- 10. Rovner, G. S., Arestedt, K., Gerdle, B., Börsbo, B., & McCracken, L. M. (2014). Psychometric properties of the 8-item Chronic Pain Acceptance Questionnaire (CPAQ-8) in a Swedish chronic pain cohort. Journal of Rehabilitation Medicine, 46(1), 73–80. https://doi-org.ezproxy.usherbrooke.ca/10.2340/16501977-1227
- 11. Sullivan, M. J., et al. (1995). "The pain catastrophizing scale: development and validation." Psychological assessment 7(4): 524.
- 12. Andrés Ares Javier, Cruces Prado, L. M., Canos Verdecho María Angeles, Penide Villanueva Lucía, Valle Hoyos, M., Herdman, M., Traseira Lugilde, S., & Velázquez Rivera Ignacio. (2015). Validation of the short form of the brief pain inventory (bpi-sf) in spanish patients with non-cancer-related pain. Pain Practice, 15(7), 643–653. <a href="https://doi.org/10.1111/papr.12219">https://doi.org/10.1111/papr.12219</a>
- 13. Mørup-Petersen, A., Holm, P. M., Holm, C. E., Klausen, T. W., Skou, S. T., Krogsgaard, M. R., . . . Odgaard, A. (2018). Knee Osteoarthritis Patients Can Provide Useful Estimates of Passive Knee Range of Motion: Development and Validation of the Copenhagen Knee ROM Scale. J Arthroplasty, 33(9), 2875-2883.e2873.doi:10.1016/j.arth.2018.05.011
- 14. Roos, E. M., Roos, H. P., Lohmander, L. S., Ekdahl, C., & Beynnon, B. D. (1998). Knee Injury and Osteoarthritis Outcome Score (KOOS)--development of a selfadministered outcome measure. J Orthop Sports Phys Ther, 28(2), 88-96. doi:10.2519/jospt.1998.28.2.88
- 15. Aburuz, S., amble, J., & Heaney, L. G. (2007). Assessment of impairment in health-related quality of life in patients with difficult asthma: psychometric performance of the asthma quality of life questionnaire. Respirology, 12(2), 227–233. <u>https://doi.org/10.1111/j.1440-1843.2006.01020.x</u>
- 16. Hendriks, A.A.J., Smith, S.C., Chrysanthaki, T. et al. DEMQOL and DEMQOL-Proxy: a Rasch analysis. Health Qual Life Outcomes 15, 164 (2017). https://doi.org/10.1186/s12955-017-0733-6
- Smirnova, A., Lombarts, K. M. J. M. H., Arah, O. A., & van der Vleuten, C. P. M. (2017). Closing the patient experience chasm: A two-level validation of the Consumer Quality Index Inpatient Hospital Care. Health Expectations: An International Journal of Public Participation in Health Care and Health Policy, 20(5), 1041– 1048. <u>https://doi-org.ezproxy.usherbrooke.ca/10.1111/hex.12545</u>
- 18. Hadibhai, S., Lacroix, J., & Leeb, K. (2018). Developing the first pan-Canadian acute care patient experiences survey. Patient Experience Journal, 5(3), 25-33. https://doi.org/10.35680/2372-0247.1227
- 19. Benson, T., & Potts, H. W. (2014). A short generic patient experience questionnaire: howRwe development and validation. BMC health services research, 14, 499. https://doi.org/10.1186/s12913-014-0499-z
- 20. Gremigni P, Sommaruga M, Peltenburg M. (2008) Validation of the Health Care Communication Questionnaire (HCCQ) to measure patients evaluation of hospital personnel communication skills. Patient Education and Counseling, 71, 57–64
- Dyer, N., Sorra, J. S., Smith, S. A., Cleary, P., & Hays, R. (2012). Psychometric properties of the consumer assessment of healthcare providers and systems (cahps<sup>®</sup>) clinician and group adult visit survey. Medical Care, 50(Suppl), 34.
- 22. Ricci-Cabello, I., Avery, A. J., Reeves, D., Kadam, U. T., & Valderas, J. M. (2016). Measuring Patient Safety in Primary Care: The Development and Validation of the "Patient Reported Experiences and Outcomes of Safety in Primary Care" (PREOS-PC). Annals of family medicine, 14(3), 253–261.
- 23. Campbell, J., Smith, P., Nissen, S. et al. The GP Patient Survey for use in primary care in the National Health Service in the UK development and psychometric characteristics. BMC Fam Pract 10, 57 (2009). https://doi.org/10.1186/1471-2296-10-57
- 24. Berg SK, Færch J, Cromhout PF, et al. Questionnaire measuring patient participation in health care: scale development and psychometric evaluation. Eur J Cardiovasc Nurs. 2020;19(7): 600-608
- Lloyd H, Fosh B, Whalley B, Byng R, Close J. Validation of the person-centred coordinated care experience questionnaire (P3CEQ). Int J Qual Heal Care. 2019;31(7):506–12.
- Ubbink, D. T., van Asbeck, E. V., Aarts, J. W. M., Stubenrouch, F. E., Geerts, P. A. F., Atsma, F., & Meinders, M. J. (2022). Comparison of the collaborate and sdm-q-9 questionnaires to appreciate the patient-reported level of shared decision-making. Patient Education and Counseling, 105(7), 2475– 2479. https://doi.org/10.1016/j.pec.2022.03.007
- 27. Kriston, L., Scholl, I., Hölzel, L., Simon, D., Loh, A., & Härter, M. (2010). The 9-item Shared Decision Making Questionnaire (SDM-Q-9). Development and psychometric properties in a primary care sample. Patient education and counseling, 80(1), 94–99.
- 28. Olsen RV, Garratt AM, Iversen HH, Bjertnaes OA. Rasch analysis of the Psychiatric Out-Patient Experiences Questionnaire (POPEQ). BMC Health Serv Res. 2010;10:9.
- Evensen, C. T., Yost, K. J., Keller, S., Arora, N. K., Frentzel, E., Cowans, T., & Garfinkel, S. A. (2019). Development and testing of the cahps cancer care survey. Journal of Oncology Practice, 15(11), 978. <u>https://doi.org/10.1200/JOP.19.00039</u>
- Health Quality Council of Alberta. Primary care patient experience survey physician report. Dr. Sample. Calgary, Alberta, Canada: Health Quality Council of Alberta; March 2019.
- 31. Tse ETY, Lam CLK, Wong CKH, et alExploration of the psychometric properties of the Person-Centred Primary Care Measure (PCPCM) in a Chinese primary care population in Hong Kong: a cross-sectional validation studyBMJ Open 2021;11:e052655. doi: 10.1136/bmjopen-2021-052655







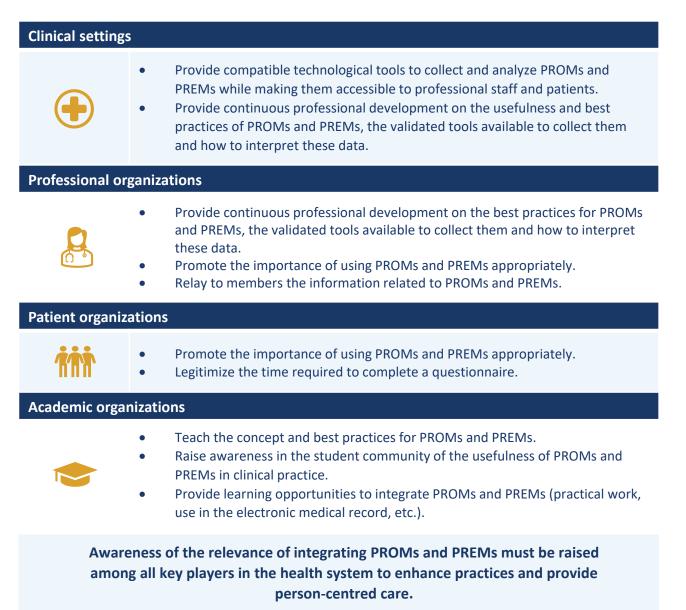




# Recommendations

The PaRIS-Québec study team conducted an environmental scan of Quebec organizations representing healthcare professionals and patients. This scan provided a current picture of the integration of self-reported indicators by patients regarding their health status (PROMs) and care experience (PREMs).

Based on the results of this study, we propose recommendations that will facilitate reflection and the implementation of action strategies to promote the inclusion of PROMs and PREMs in clinical settings.



References : 1-Poitras, ME; Haggerty, J; Beaupre, P; T Vaillancourt, V; Ahmed, S; Brodeur, M; Lambert, S; Laberge, M; Zidarov, D; Visca, R; Poder, T; David, G; Cormier, C; Bernier, J; Morin, A; Zomahoun, HTV. (2022). Intégration des PROMs et des PREMs au sein des organisations professionnelles et de patients et patientes québécoises. Unité de soutien SSA Québec







