PROMs Collection for Hip and Knee Replacement Patients

OVERVIEW



Meeting Agenda







Image: Part 1:Image: Addition of the sector of the s

Introduction: Project Partners



Ministry of Health

• Oversees project

Ontario Health

• Supports sites with PROMs implementation and data collection

Canadian Institute for Health Information (CIHI)

• Analyses PROMs data and develops hospital-level summaries and progress reports.



Patient Reported Outcome Measures (PROMs)

- PROMs are measurement instruments (i.e., surveys) that patients complete to provide information on aspects of their health status and quality of life, including symptoms, function, pain and physical and mental health
- PROMs are essential to understanding whether health care services and procedures make a difference to health status and experiences
- By comparing answers before and after surgery, "health gain" is assessed

Other Countries with Joint Registries





The Ministry's Strategy

- The Ministry of Health is expanding its musculoskeletal strategy by implementing systematic collection of patient-reported outcomes (PROMs) for patients having elective hip/knee replacement surgery at all 57 orthopedic clinics in Ontario.
- This initiative is part of the Quality Based Procedure (QBP) program
- PROMs collection is a requirement for sites participating in the hip and knee QBP (All orthopedic hospitals as of April 1, 2019)

Reasons that the Ministry is supporting Hip and Knee Replacement PROMs Collection:



- Is patient-centred & evidence-based
- Complement traditional patient data



Measure patient's view



Allow for comparative reporting and benchmarking

Ontario Health's Role

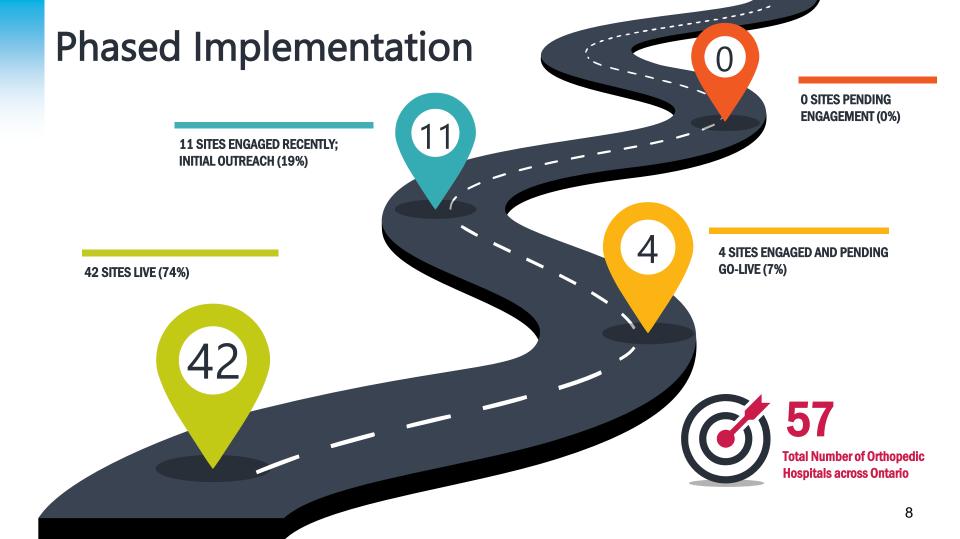


Agency created by the Government of Ontario, connecting and coordinating healthcare system across the province, ensuring that Ontarians receive the best possible care.

One of the largest cancer symptom management databases in the world. More than a decade of experience implementing and **overseeing electronic PROMs collection** at over 70 cancer sites in Ontario. OH leverages its existing experiences, change management expertise, and technological infrastructure to spread PROMs collection to hip and knee patients.



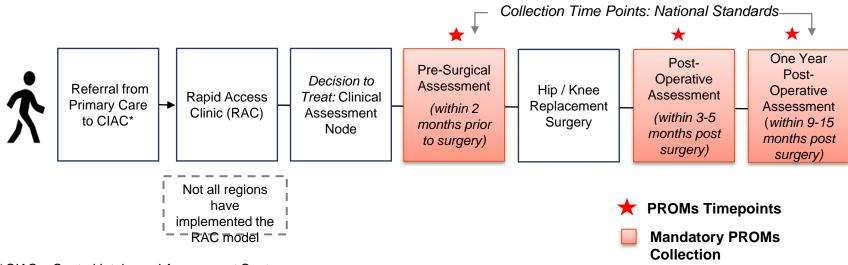




PROMs Patient Pathway

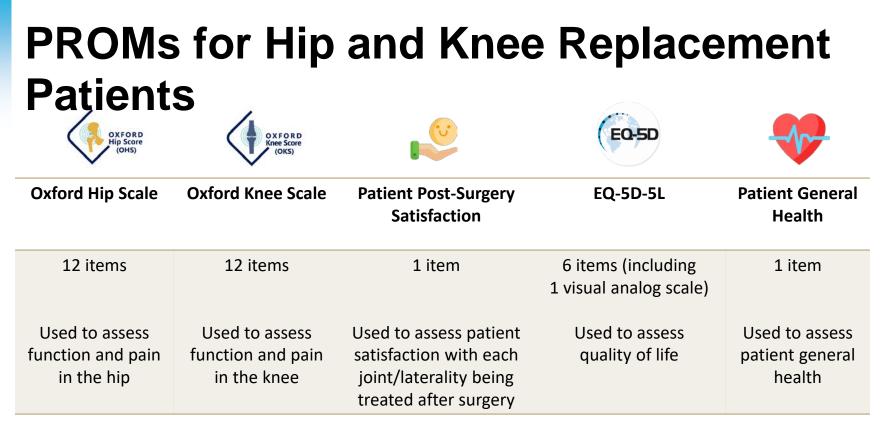
When and where data will be collected

Participating hospitals will collect PROMs at **3 MANDATORY TIMEPOINTS** along the patient journey:



*CIAC = Central Intake and Assessment Centre





• All PROMs will be available electronically (on ISAAC) in English and French.



• Certain language translations are also available via the licensor (managed by CIHI).

ISAAC Functionality

ISAAC (Interactive Symptom Assessment and Collection) platform is a standardized and secure web-based tool accessible to patients and clinicians

- Adapted to accommodate PROMs collection for hip and knee replacement patients
- Patient Portal: Platform for patients to complete PROMs at different timepoints.
- Administrative Portal: Platform for clinic staff to enroll patients, upload survey data, access reports, configure devices.

Primary access points include:

- Kiosks (Desktop/laptop computers), Tablets, Paper
- Home/remote completion: <u>https://promsortho.ontariohealth.ca</u>





ISAAC Patient Portal Demo



Brief walk-through of patient-facing ISAAC portal via our **test environment**. <u>https://promsortho.pst.ontariohealth.ca</u>

Ontario Health	Français
Enter the 10 numbers of your Ontario Health Card (no letters, no spaces):	If you don't have an Ontario Health Card, select this box then enter your Medical Record Number
Health Card Number	
Clear A Start 7	



ISAAC Patient Registration

Role of Clinic Staff

- Complete One-time patient registration in the ISAAC Administrative portal prior to the patient's visit at the clinic
 - Patients can be registered in 3 ways:
 - Individually (as shown in picture)
 - CSV batch upload
 - ADT Build (Admit Discharge Transfer)
 - There are 5 mandatory fields:

First name	Last name
HCN	MRN (optional if N/A)
Gender	Birth date

- Communicate/usher patients to kiosks/tablets
- Manage hardware



Ontario Health

Patient Reports	Configuration	Surveys	File Upload		
Enroll Patie	nt				
Search for Exis	ting Patient	t			
Health Card Number:				Search by Health Card Number	Clear All
Medical Record Number:				Search By Medical Record Number	New Enrollment
Enroll New Pati	ent				
Patient does not exist. Comple	te the form below and	I click the "En	oll" button.		
* Health Card Number:	O0 = Insured O1 = Not App		rovince, but HCN not	availabile at time of registration	
Medical Record Number:	OH239587				
* Surname:					
* First Name:					
* Gender:	Please Sele	t	v		
* Birth Date:				(fm	
Demo:					
Enroll					

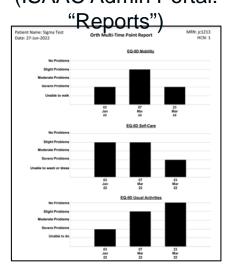
PROMs Reports

Some examples of reports available for sites:

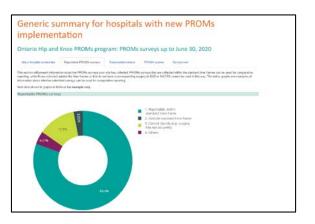
Single Time-Point Patient-level Reports (ISAAC Admin Portal: "Patient")

Rurvey Name: EQ-5D-5L	~		
Assessment Date: 24-Jun-2022	Channel: Home	Pirst Name: Signa Sumeme: Tost	
Aedical Record Number: jc1213	Health Card Number:	Spoke Mester Number:	1
Survey Question		Survey Answer	
MOBILITY		2	
SELF-CARE		2	
USUAL ACTIVITIES		1	
PAIN / DISCOMFORT		2	
ANXETY / DEPRESSION		1	
YOUR HEALTH TODAY		80	
			Displaying 7 of 7
		Add Survey Response	Edit Delete

Multi Time-Point Patient-level Reports (ISAAC Admin Portal:



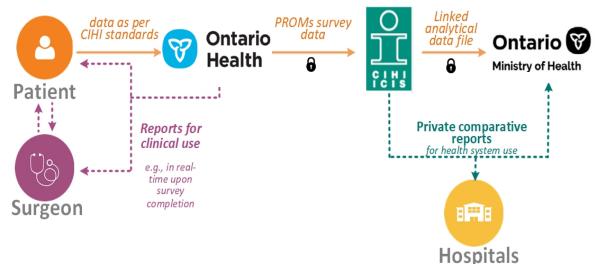
Hospital-Specific Comparative Reports (Facilitated by CIHI)





PROMs Data Storage and Linkages

- PROMs data will be sent from the ISAAC platform to the ISAAC database in real-time
- Clinical care team has immediate access to individual patient responses via the ISAAC Administrator portal
- Ontario Health will use the data from ISAAC to link to Wait Times database for additional information
- Ontario Health will provide monthly data cuts to CIHI for provincial and national standardized reporting

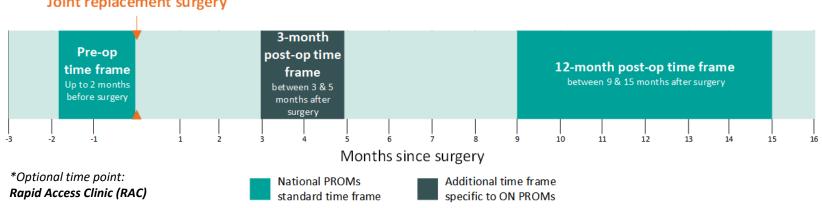


Report Methodology

CIHI links PROMs surveys to inpatient and day surgery databases to categorize them in relation to the timing of the surgery

Patient's PROMs and surgery data are included if they meet the following criteria:

- The surgery has been completed and reported in inpatient and day surgery databases. •
- The surgery meets eligibility criteria for the QBP Program. ۲
- The survey falls within the standard collection time frames for CIHI's health system reporting. ۰



Joint replacement surgery

Lessons Learned Thus Far





Identify operational champion (Act as super user and train other staff)

Obtain buy-in from administrators, clinicians and clinic staff



Provide support for patients when completing PROMs (Help from volunteers/students)



Upload patient registration in bulk before patient's first visit, during clinic off hours; or set up automatic patient registration

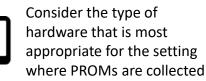
Plan to use multiple strategies to remind patients for PROMs completion



TECHNOLOGY



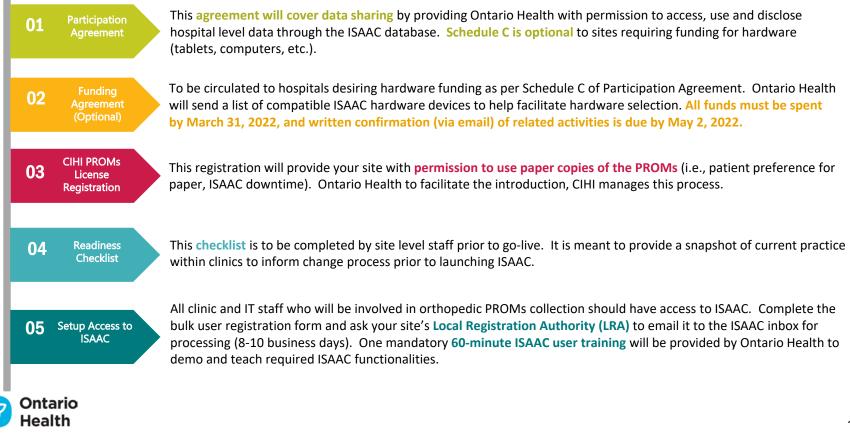
Ensure hardware requirements are addressed (ISAAC compatibility & hospital security)





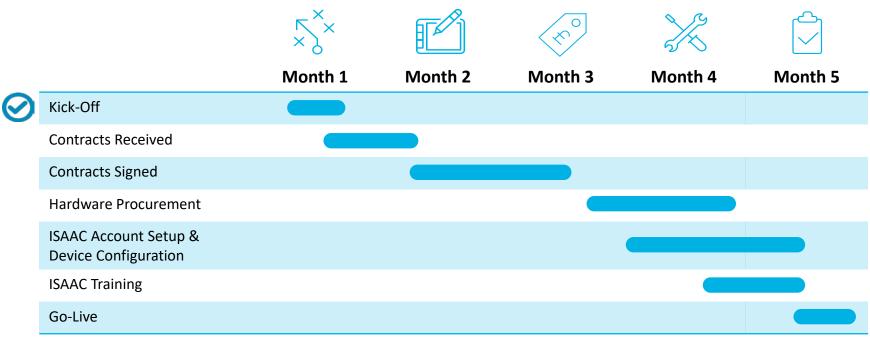
Part 3:Next Steps

Next Steps for Your Site



Site Specific Timeline

This is a high-level approximation of project timeline:







Appendix

Oxford Hip Scale (OHS)

DD	DBLEMS WIT		D								
FK	JDLEMS WII	n fook ni	-	✓) one box for e	every auestion.	7.	During the	past 4 weeks			
				/			Have you be	en able to climb a	a flight of stai	rs?	
1.	During the pa	st 4 weeks						and the first	With		
				<u>lly</u> have from yo			Yes, easily	With little difficulty	moderate difficulty	With extreme difficulty	No, impossible
	None	Very mild	Mild	Moderate	Severe		,		□		,
2.	During the pa	st 4 weeks				8.	During the	past 4 weeks			
	Have you had (all over) <u>beca</u>			d drying yourse	lf			(sitting at a table air <u>because of yo</u>		I has it been fo	r you to stand
	No trouble at all	Very little trouble	Moderate trouble	Extreme difficulty	Impossible to do		Not at all painful	Slightly painful	Moderately painful	Very painful	Unbearable
з.						9.	During the	past 4 weeks			
				ut of a car or us ever you tend to			Have you be	en limping when	walking becau	use of your hip?	
	No trouble	Verv little	Moderate	Extreme	Impossible				Often,		
	at all	trouble	trouble	difficulty	to do		Rarely/ never	Sometimes, or just at first	not just at first	Most of the time	All of the time
4.	During the pa	st 4 weeks									
			a pair of soc	ks, stockings/ny	lons or	10.		past 4 weeks			
	tights/leggings	2	With				Have you had any sudden, severe pain – "shooting", "stabbing" or "spasms" - from the affected hip?			bing" or	
	Yes,	With little	moderate	With extreme	No,		No	Only 1 or 2	Some	Most	Every
	easily	difficulty	difficulty	difficulty	impossible		days	days	days	days	day
5.	During the pa	st 4 weeks				11.	During the	past 4 weeks			
	Could you do	the household/		ping <u>on your ow</u>	<u>n</u> ?		How much ha	as pain from you	<u>r hip</u> interfere	d with your usu	al work
	Yes,	With little	With moderate	With extreme	No,		(including ho				
	easily	difficulty	difficulty	difficulty	impossible		Not at all	A little bit	Moderately	Greatly	Totally
6.	During the pa	st 4 weeks				12.	During the	past 4 weeks			
				re <u>pain from you</u>	<u>ır hip</u> becomes		Have you be	en troubled by <u>pa</u>	ain from your	<u>hip</u> in bed at nig	ght?
	severe? (with No pain/More	or without a st	ick/cane)		Not at all/pain		No nights	Only 1 or 2 nights	Some nights	Most nights	Every night
	than 30 minutes	16 to 30 minutes	5 to 15 minutes	Around the house only	severe when walking						



Oxford Knee Scale (OKS)

PR	DBLEMS WI	TH YOUR KN				7	During the r	oast 4 weeks			
			Check (v) <u>one</u> box for	everv question.			neel down and ge	et up again aff	terwards?	
1.		ast 4 weeks							With		
	How would yo None	u describe the p Very mild	ain you <u>usual</u> Mild	<u>ly</u> have from y Moderate	our knee? Severe		Yes, easily	With little difficulty	moderate difficulty	With extreme difficulty	No, impossible
2.	During the p	ast 4 weeks				8.	During the p	past 4 weeks			
		any trouble with ause of your kne		d drying yourse	elf			en troubled by <u>pa</u>			-
	No trouble at all	Very little trouble	Moderate trouble	Extreme difficulty	Impossible to do		No nights	Only 1 or 2 nights	Some nights	Most nights	Every night
3.	 During the past 4 weeks Have you had any trouble getting in and out of a car or using public transportation because of your knee? (whichever you tend to use) 					9.	During the p	past 4 weeks			
							How much ha (including ho	as <u>pain from you</u> usework)?	<u>r knee</u> interfe	red with your us	ual work
	No trouble at all	Very little trouble	Moderate trouble	Extreme difficulty	Impossible to do		Not at all	A little bit	Moderately	Greatly	Totally
_						10.	During the p	past 4 weeks			
4.		ast 4 weeks					Have you felt	that your knee i	might sudden	ly 'give out' or le	t you down?
	becomes sev	e you been able e re ? (with or wit					Rarely/	Sometimes,	Often, not just at	Most	All
	No pain/More than 30 minutes	16 to 30 minutes	5 to 15 minutes	Around the house only	Not at all/pain severe when walking		never	or just at first	first	of the time	of the time
							During the	oast 4 weeks			
5.	During the p	ast 4 weeks				11.		o the household/	arocery shone	ing on your own	12
	After a meal (sitting at a table ir <u>because of yo</u>		l has it been fo	or you to stand		Yes,	With little	With moderate	With extreme	No,
		- 1 - 1 - 1	Moderately	Very			easily	difficulty	difficulty	difficulty	impossible
	Not at all painful	Slightly painful	painful	painful	Unbearable						
				painful	Unbearable	_					
6.	painful	painful		·	Unbearable	12.	During the p	Dast 4 weeks	L .		
6.	painful	painful	painful			12.	During the p	Dast 4 weeks alk down one flig			
6.	painful	painful	painful			12.	During the p		ht of stairs? With moderate difficulty	With extreme difficulty	No, impossible

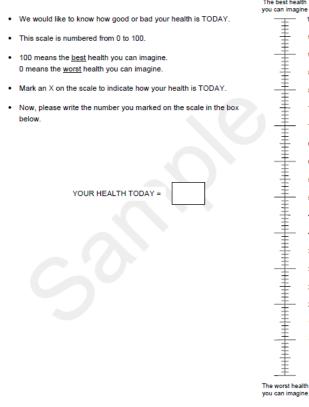


EQ-5D-5L (Quality of Life)

Under each heading, please tick the ONE box that best describes your health TODAY.

MODILITY

I have no problems in walking about	
I have slight problems in walking about	
I have moderate problems in walking about	
I have severe problems in walking about	
I am unable to walk about	
SELF-CARE	
I have no problems washing or dressing myself	
I have slight problems washing or dressing myself	
I have moderate problems washing or dressing myself	
I have severe problems washing or dressing myself	
I am unable to wash or dress myself	- E
USUAL ACTIVITIES (e.g. work, study, housework, family or leisure activities)	
I have no problems doing my usual activities	
I have slight problems doing my usual activities	
I have moderate problems doing my usual activities	
I have severe problems doing my usual activities	
I am unable to do my usual activities	
PAIN / DISCOMFORT	
I have no pain or discomfort	
I have slight pain or discomfort	
I have moderate pain or discomfort	Ē
I have severe pain or discomfort	
I have extreme pain or discomfort	
ANXIETY / DEPRESSION	
I am not anxious or depressed	
I am slightly anxious or depressed	Ē
I am moderately anxious or depressed	
I am severely anxious or depressed	
I am extremely anxious or depressed	Ē





Dimensions used to assess

DDOMo

1 Psychometric Properties	Clinical Acceptance and Health System Applicability	Patient Relevance and Considerations	Length of Survey and Time to Complete
Only existing validated PROMs instruments meeting psychometric standards (e.g., reliability, validity responsiveness) were considered	Results from the instruments should be able to inform clinical decision-making and evaluation of services. Instruments which are accepted by the clinical community and can be used to support routine care were preferred	Questions from the instruments should be relevant to patients and easy to understand	The length of the instrument has an impact on perceived burden of data collection by patients and potential resources required by health systems to collect surveys. Shorter instruments were preferred
5 Existing recommendations and guidelines	Licensing and Costs	Canadian Use	International Use
PROMs guidelines and			

