

## Using PROMs & PREMs to Impact Clinical Care

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### **Disclosure**

- **❖**ABJHI receives funding from:
  - Bone & Joint Health Strategic Clinical Network
  - Canadian Institutes of Health Research
  - Alberta Innovates-Health Solutions
  - Restricted & unrestricted industry donations
  - Private health clinics
  - Philanthropy
- Data presented is real



# PROMs & PREMs in Elective Total Joint Arthroplasty

#### Captured routinely:

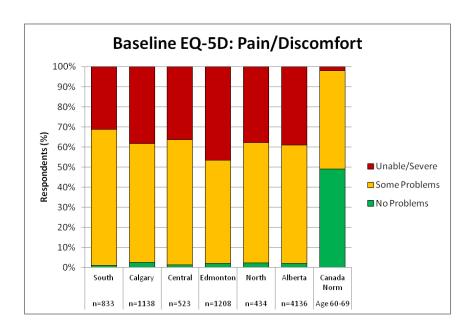
- WOMAC: Functional status
- ❖ EQ-5D: Quality of life
- Patient feedback

#### Often used:

- \*QOL:
  - SF-12/36
  - HUI-3
- Functional status:
  - Harris Hip Score
  - Knee Society Score
  - HOOS & KOOS
- Hospital Experience:
  - HAPSQ



#### ❖ To describe



#### **Baseline WOMAC: Overall Score** no disability 8 4 otal disability 20 South Calgary Central Edmonton North Alberta n=779 n=1201 n=531n=1283 n=431 n=4225

#### ❖ To inform

Figure 21. Pre- and post-surgery WOMAC scores (Site X)

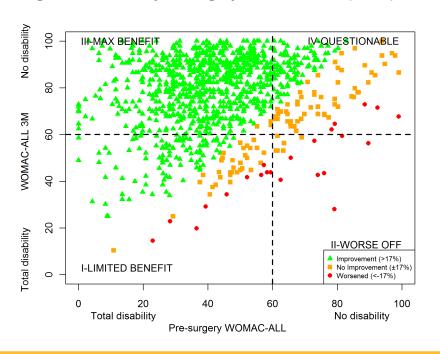


Figure 19. Incidence of PONV and effectiveness of treatment 9 Percentage q1.11/12 q3.11/12 q1.12/13 q3.12/13 q1.13/14 Quater of Fiscal year Patients Reporting PONV with 95% CI Received Nausea Meds Nausea Meds Effective



#### To predict

Table 1. Relationship between obesity and pre- and post-surgery WOMAC scores

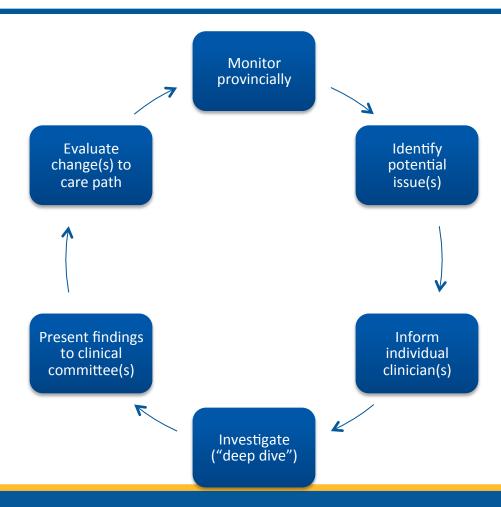
WOMAC Score (n=2761)	Non-Obese (BMI <30)	Obese (BMI ≥30)	p-value
Pre-surgery (avg):	43.3	41.5	0.003
3 months post-op (avg):	77.6	75.7	0.003
Point change (avg):	31.7	32.9	0.335
3 mos post-op ≥ 90 (%)	25.8	20.3	0.001

#### To predict

Table 2. Logistic regression predicting WOMAC 3 months post-op

WOMAC Score @ 3 Months	Coefficient	Std. Err.	t	P>t	[95% Conf.	. Interval]
Obese (Y vs N)	-0.16	0.89	-0.18	0.860	-1.90	1.59
Pre-Surg WOMAC	0.21	0.02	9.31	< 0.001	0.17	0.25
Age	0.01	0.04	0.22	0.824	-0.08	0.10
Male vs. Female	1.47	0.87	1.68	0.092	-0.24	3.17
Knee vs. Hip	-6.97	0.89	-7.86	< 0.001	-8.70	-5.23
1 Pre-Surg Risk Factor vs. 0	-0.70	0.99	-0.70	0.483	-2.65	1.25
2+ Pre-Surg Risk Factors vs.0	-1.47	1.10	-1.33	0.182	-3.62	0.69

### **Closing the Quality Loop**





### **Questions?**

#### **Contact Info**

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### **General Inquiries**

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