

Functional Status Assessment Measures using Patient-Reported Outcomes

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Today

Working on performance measures for assessment of functional status for the following

- Hip and knee replacement
 - Congestive heart failure
 - Asthma, Rheumatoid arthritis
- **Review of current use**
 - **Summary of issues**
 - **Next Steps**

Complex Chronic Conditions: Heart Failure – Generic Tools

PROM	# of items	Dartmouth-Hitchcock	University of Penn	Cleveland Clinic	Oxford Report¥	Total
PROMIS (global)	10	√	√			2
EQ-5D*	5			√	√	2
SIP	136					0
SF-36*	36				√	1
SF-12*	12				√	0
VR-12	12	√				1

*Proprietary tools

¥Patient-Reported Outcome Measurement Group, Oxford: A Structured Review of Patient-Reported Outcomes Measures (PROMs) for Heart Failure

Complex Chronic Conditions: Heart Failure – Condition-Specific Tools

PROM	# of items	Dartmouth-Hitchcock	University of Penn	Cleveland Clinic	Oxford Report	Total
KCCQ*	23	√ X		√	√	3
MLHFQ*	21	√ X			√	2
CHQ‡	16					0
MacNew	23-27					0
PHQ-9	9-10	√	√	√		3
GAD-7				√		1

*Proprietary tools

‡Interview only

~~X~~Been using MLHFQ but is piloting/considering switching to KCCQ

Complex Chronic Conditions: Heart Failure – Generic vs. Condition-Specific Tools

PROM	Dartmouth-Hitchcock	University of Penn	Cleveland Clinic	Total
Generic PROM only		√*		1
Condition-specific PROM only				0
Generic and condition-specific PROM	√		√*	2

*University of Pennsylvania and Cleveland Clinic are also using the PHQ-9, and Cleveland Clinic is using the GAD-7 for anxiety

Hip Replacement – Condition-Specific Tools

PROM	# of items	NHS (UK)	D-H	Rocky Mt.	Sweden Reg. ¥	CJRR ¥	AJRR ^	Providenc e#	Scott & White#	Maine #	VM #	Total
Oxford Hip Score*	12	√				√	√		√	√		5
HOOS	42			√			√	√X	√X	√X	√X	6
WOMAC*	24					√	√	√X	√X	√X	√X	2
Harris Hip Score	8		√				√	√		√		4
AAOS Lower Limb Scale	7											0

***Proprietary tools**

X Been using WOMAC but is switching to HOOS

¥The California Joint Replacement Registry: Selecting a Tool for Evaluating Patient-Reported Outcomes

^The American Joint Replacement Registry has not yet started collecting PRO data – these tools are under consideration for when sites begin submitting PRO data

#High Value Healthcare Collaborative sites

Hip Replacement – Generic vs. Condition-Specific Tools

PROM	NHS (UK)	D-H	Rocky Mt.	Sweden Reg. ¥	CJRR¥*	AJRR^	Providence #	Scott & White#	Maine #	VM#	Total
Generic PROM only				√	√						2
Condition-specific PROM only											0
Generic and condition-specific PROM	√	√	√		√		√		√	√	7

***The CJJR recommends three PROM combinations to participating providers: two options include a generic and a condition-specific PROM, one option includes a generic PROM only**

¥The California Joint Replacement Registry: Selecting a Tool for Evaluating Patient-Reported Outcomes

^The American Joint Replacement Registry has not yet started collecting PRO data and has not established requirements for which PROMs will need to be used

How Minnesota Community Measurement Calculates Change

- **Change score**
 - Change (absolute) in points pre-op vs. post-op among patients
 - Change (percent) for Oswestry
 - Averaged at clinic level
- **Developing plan for risk adjustment to ensure valid comparisons**

How the NHS Measures Change

- **Measure PROMs once before and once after surgery (at least six months after for hip and knee replacements)**
- **To add to the value of the PROMs questionnaire data, it is linked routinely with Hospital Episode Statistics (HES) episode-level information**
- **In addition to the presentation of raw data, adjusted post-operative scores and measures of health gain are included together with standard deviations**
 - An adjusted measure has been included to allow the comparison of trusts with national figures based on health gain
 - The adjusted measure, based on models developed by contractors on behalf of the Department of Health, takes into account the fact that organizations deal with patients with a differing casemix
 - Casemix models are applied in this publication in advance of a planned cycle of further refinement to the methodology.

Key Themes: Functional Status Assessments

- **Experts provided feedback that standardized functional status assessments are of interest, but generally are not used in clinical practice**
 - When they are used, they are not used systematically
 - These instruments are generally calibrated for individual patient assessment
 - We will need consider risk adjustment to achieve equitable population-level evaluation for outcome measures
- **Expert support for pairing process measure with goal setting tied to functional status assessments**
- **Expert recommendation to specify several assessment tools because using a single assessment tool may affect face validity**
- **Issues may be different for assessment of procedures than for use with chronic conditions**
- **Expert discomfort with outcomes at aggregate level**

Next Steps

- **Explore how to construct outcome measures**
- **Decide on standardized tools**
- **Explore licensing options**
- **Field test**
- **Final specifications final specs for potential inclusion in Meaningful Use Stage 3**