

**Patient-Reported Outcome Measure (PROM) Collection per CMS Mandatory Requirements Remains Difficult Despite the Resources of a Multi-center Academic Institution.**

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**INTRODUCTION:** The Centers for Medicare and Medicaid Services (CMS) begins a mandatory requirement to report patient-reported outcome measures (PROMs) for inpatient hip and knee arthroplasty procedures on 7/1/2024, comprising of a 0-90 day preoperative score and a 300-425 day postoperative score. The requirement urges collection of preoperative and postoperative PROMs for at least 50% of all the fee-for-service part A claims, including non-orthopaedic claims. Our institution has collected PROMs as required by Michigan Arthroplasty Registry Collaborative Quality Initiative (MARCQI) since 2018 and as a department since June 2020. This study analyzes the success rates of collection of the CMS-required PROMs at multi-center academic institution committed to collecting PROMs.

**METHODS:** Patients who underwent total knee arthroplasty (TKA) or total hip arthroplasty (THA) were identified, and data was retrospectively collected from MARCQI over a two-year period (2021-2022) at a multi-center academic institution. PROMs, comprising of a KOOS-JR (Knee injury and Osteoarthritis Outcome Score-Joint Replacement) score for TKA and a HOOS-JR (Hip disability and Osteoarthritis Outcome Score-Joint Replacement) score for THA, were extracted from the electronic medical record. The intervals for PROMs collection were defined per the CMS requirement of 0-90 days preoperative and several postoperative periods including: 0-30 days, 31-120 days, 121-299 days, and 300-425 days. Analysis included counts and percentages of cases with completed PROMs for both the TKA and THA groups across these intervals, assessing trends over time.

**RESULTS:**

**TKA**  
In 2021, there were 1,460 TKA cases, with 306 patients (21.0%) meeting the CMS requirement by completing both a 0-90 day preoperative and 300-425 day postoperative PROMs. In 2022, the number of TKA cases increased to 1,654 TKAs, with 531 (32.1%) patients meeting the requirement.

**THA**  
In 2021, there were 901 THA cases, with 150 (16.6%) patients meeting the CMS requirement by completing both a 0-90 day preoperative and 300-425 day postoperative PROMs. In 2022, the number of THA cases increased to 1,049 THAs, with 336 (32.0%) patients meeting requirement.

Collection of PROMs decreases throughout the postoperative period, as demonstrated in Table 1.

**DISCUSSION AND CONCLUSION:**

Despite the resources committed to PROMs collection by our multi-center academic institution, we have been unable to meet the 50% PROMs collection requirement set by CMS. PROM collection rates decrease throughout the entire postoperative period.

Table 1: Annual Completion rates of Patient Reported Outcome Measures (PROMs) by Time Window						
Category	Year	Total Case Count (n)	Preop 0-90 days (n (%))	0-30 days (n (%))	31-120 days (n (%))	121-299 days (n (%))
HOOS	2021	901	852 (94.6%)	408 (45.3%)	474 (52.6%)	419 (46.5%)
	2022	1049	987 (94.1%)	502 (47.9%)	463 (44.1%)	376 (35.8%)
KOOS	2021	1460	1379 (94.5%)	651 (44.6%)	775 (53.1%)	672 (46.0%)
	2022	1654	1531 (92.6%)	845 (51.1%)	804 (48.6%)	634 (38.3%)