

## APPENDIX C: DETAILED QUALITY STANDARDS

For all of the following, THR/TKR patients refers to first-time, single-joint total knee or total hip replacement surgery for osteoarthritis, excluding patients with joint replacement for fracture, cancer, or inflammatory arthritis.

Please note that three of the quality measures refer to specific results or scores and therefore have no numerator or denominator.

	Numerator	Denominator
<b>1: Standards for appropriateness</b>		
a	Number of TKR/THR patients receiving formal shared decision-making decision aids pre-operatively	Total number of TKR/THR patients
b	Number of TKR/THR patients with documented patient-reported measures of quality of life and musculoskeletal function prior to surgery (Knee Injury and Osteoarthritis Outcome Score (KOOS) Jr. or Hip Dysfunction and Osteoarthritis Outcome Score (HOOS) Jr.	Total number of TKR/THR patients
c	Proportion of TKR/THR patients with documented patient-reported measures of quality of life – the PROMIS-10 Global Health	Total number of TKR/THR patients
d	Result of scores for KOOS Jr. and HOOS Jr. and questions regarding everyday physical activities (Question 7) and pain (Question 10) on the PROMIS-10 survey	
<b>2: Standards for evidence-based surgery</b>		
a	Number of TKR/THR patients receiving measures to manage pain while speeding recovery in a multimodal format in the peri-operative period	Total number of TKR/THR patients
b	Number of TKR/THR patients receiving measures to reduce risk of venous thromboembolism and pulmonary embolism in the peri-operative period	Total number of TKR/THR patients
c	Number of TKR/THR patients receiving measures to reduce blood loss such as administration of tranexamic acid in the peri-operative period	Total number of TKR/THR patients
d	Number of TKR/THR patients receiving measures to reduce infection such as administration of prophylactic antibiotics in the peri-operative period	Total number of TKR/THR patients
e	Number of TKR/THR patients receiving measures to maintain optimal blood sugar control in the peri-operative period	Total number of TKR/THR patients
<b>3: Standards for ensuring rapid return to function</b>		
a	Number of TKR/THR patients with documented physical therapy within 24 hours of surgery	Total number of TKR/THR patients
b	Number of TKR/THR patients with documented patient-reported measures of quality of life and musculoskeletal function six months following surgery (same as used as in standard 1b)	Total number of TKR/THR patients
c	Results of measures from 2b, specifically including responses to the questions identified in standard 1c (Quality of Life (Q2 and Q4) and Pain (P1, and P4-5) scores for KOOS Jr. and HOOS Jr. and questions regarding everyday physical activities (Question 7) and pain (Question 10) on the PROMIS-10 survey)	
<b>4: Standards for the patient care experience</b>		
a	Number of TKR/THR patients surveyed using HCAHPS	Total number of TKR/THR patients
b	Results of measures from 4a, specifically responses to Q6 and Q22 if HCAHPS is used	
<b>5: Standards for patient safety and affordability</b>		
a	Number of TKR/THR patients readmitted to the hospital within 30 days of discharge, all causes	Total number of TKR/THR patients
b	Number of TKR/THR patients readmitted to the hospital within 30 days of discharge for any of the nine complications included under the terms of the warranty	Total number of TKR/THR patients