Evaluating the Impact of Home Health Care on 1-Year Patient-Reported Outcomes After TKA: Is There Added Value Compared to Home Self-Care?

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INTRODUCTION: Total knee arthroplasty (TKA) is an increasingly common procedure, with projections indicating continued substantial growth in demand over the coming decades. Value-based care models have led to an emphasis on optimizing post-acute care pathways and reducing costs while maintaining quality outcomes. Following TKA, patients are typically discharged home, either under self-care or with home health services. Home health care, which involves intermittent visits by healthcare professionals to provide assistance and monitoring during recovery, has been associated with increased costs compared to self-care. However, there is limited data on how home health care impacts patient-reported outcome measures (PROMs), which are critical indicators of the patient experience and effectiveness of care. This study aimed to evaluate 1 year postoperative PROMs, achievement of minimum clinically important difference (MCID), patient acceptable symptomatic state (PASS) thresholds, and factors impacting PROMs for TKA patients discharged to home health care compared to those discharged home without home health services.

METHODS: A prospective cohort of 10,084 primary TKA performed in a single healthcare system between 2016 and 2022 were included, with 6,963 discharged to home health care and 3,121 discharged home with self care. Baseline demographics and surgical variables were collected. (Table 1) Patients completed Knee Injury and Osteoarthritis Outcome Score Physical Function Short-form (KOOS-PS), KOOS-Pain, and KOOS-Joint Replacement (KOOS-JR) questionnaires preoperatively and at 1 year postoperatively. MCID and PASS were defined using established thresholds (MCID: 7.9 KOOS Pain, 8.0 KOOS PS, and 6.7 KOOS JR; PASS: 77.7 KOOS Pain, 70.3 KOOS PS, and 70.7 KOOS JR). PASS responses indicated optimal patient satisfaction using a response to a question at one-year ("Taking into account all the activity you have during your daily life, your level of pain and also your activity limitations and participation restrictions, do you consider the current state of your knee satisfactory?"). The proportion achieving MCID and PASS thresholds was assessed. Multivariable logistic regression models, controlling for demographics and potentital confounders, were used to identify factors associated with failing to achieve thresholds.

RESULTS: Patients receiving home health care had similar improvements in PROMs compared to those discharged home. The proportion achieving MCID thresholds was 85.0% vs 85.5% for KOOS-PS (p=0.542), 93.6\% vs 93.1% for KOOS-Pain (p=0.310), and 91.8% vs 91.0% for KOOS-JR (p=0.218). For PASS, it was 66.2% vs 65.9% for KOOS-PS (p=0.727), 70.2% vs 68.9% for KOOS-Pain (p=0.223), and 68.0% vs 67.7% for KOOS-JR (p=0.771). Discharge disposition was not associated with failure to achieve MCID or PASS thresholds after adjusting for confounders (all p>0.05). (Tables 2 and 3). However, those discharged home with self-care were less likely to be satisfied based on PASS responses (OR 0.87, 95% CI 0.77-0.97, p=0.013) (Table 3).

DISCUSSION AND CONCLUSION: TKA patients discharged to home health care achieve similar MCID and PASS rates at one year as those discharged home with self-care. However, patients discharged with home health care reported higher satisfaction rates. The lack of clinically significant differences in PROMs between the two groups emphasizes that careful patient selection and risk stratification is needed to ensure that home health resources are allocated to those who are most likely to benefit. Future research should focus on developing evidence-based criteria and decision-support tools to guide discharge planning and optimize different post-acute care pathways following TKA, taking into account patient preferences, social support, and other factors that may influence satisfaction and recovery. Additionally, incorporating data from wearable technology, such as step counts and activity levels, could provide valuable insights into patients' functional recovery and help tailor post-discharge interventions and monitoring to further improve outcomes and satisfaction after TKA

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