

Patient Satisfaction Following Total Hip Arthroplasty May Be As High As 95%

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INTRODUCTION: Total hip arthroplasty (THA) is frequently performed in patients with severe hip osteoarthritis to reduce pain and restore function. While dissatisfaction following total knee arthroplasty is commonly reported at around 20%, satisfaction after THA is less well studied.

METHODS: This retrospective review included THA patients who used a web-based home therapy program (Force Therapeutics) between November 2018 to December 2023. Patients were stratified by 12-week postoperative satisfaction. Univariate analyses were performed on demographics and functional outcomes. Stepwise logistic regression analyses were performed to identify parameters predictive of satisfaction following THA.

RESULTS: Among 1414 included patients, 1335 (94.4%) reported satisfaction following THA. Satisfied patients had lower mean age (Satisfied=67.9 vs Not Satisfied=71.5 years, $p<0.001$) as well as higher body mass index (30.2 vs 28.3kg/m², $p=0.035$) and medical comorbidities (71.4% vs 60.8%, $p=0.044$). Across the cohort, PROMs improved significantly from preoperatively to one-year postoperatively ($p<0.05$). Preoperatively, satisfied patients reported higher preoperative PROMIS Overall, Physical, and Mental scores ($p<0.05$). One-year postoperatively, satisfied patients noted larger improvements in functional outcomes, yielding better PROMIS Overall (39.3 vs 32.8), Physical (52.0 vs 43.5), and Mental (53.5 vs 47.2), HOOS Jr (87.8 vs 71.9), and VAS pain (2.1 vs 3.9) scores (all $p<0.001$) (**Table 1**). Stepwise regression analyses revealed that age (OR=0.96, 95%CI=0.92-1.00, $p=0.033$) and PROMIS Mental scores (OR=1.05, 95%CI=1.00-1.09, $p=0.040$) were predictive of satisfaction after THA.

DISCUSSION AND CONCLUSION: In a modern cohort of THA patients, nearly 95% reported satisfaction following surgery. Satisfied patients had better pre- and post-operative functional outcomes. Lower age and better mental health may possibly predict postoperative satisfaction. While careful preoperative selection of patients should still be employed, patient satisfaction following THA is high.

Table 1. Patient-Reported Outcome Measures by Postoperative Satisfaction

PROM	Preoperative			One-Year Postoperative		
	Not Satisfied (N = 175)	Satisfied (N = 1527)	P-value	Not Satisfied (N = 175)	Satisfied (N = 1527)	P-value
PROMIS Overall	30.47 (0.78)	33.00 (0.20)	0.003	32.84 (1.08)	39.25 (0.20)	<0.001
PROMIS Physical	38.42 (0.74)	40.14 (0.19)	0.035	43.46 (1.05)	51.97 (0.25)	<0.001
PROMIS Mental	46.25 (1.04)	49.86 (0.26)	0.001	47.19 (1.38)	53.52 (0.26)	<0.001
HOOS Jr	51.46 (1.65)	50.72 (0.38)	0.650	71.93 (2.14)	87.80 (0.40)	<0.001
VAS Pain	6.44 (0.25)	6.36 (0.05)	0.749	3.90 (0.89)	2.09 (0.10)	<0.001

Abbreviations: PROMIS = Patient-Reported Outcomes Measurement Information System,

HOOS Jr = Hip Injury and Osteoarthritis Outcome Score Junior, VAS = Visual Analogue Scale.